

Year 7 End of Year Knowledge Organiser



Unit 1 Origins– Knowledge Organiser

Content		Imagery and Implied Meaning	Key Vocabulary	
<u>The Fall of Man</u>		Noun -	Antagonist	
<u>The story of Prometheus</u>			Protagonist	
<u>David and Goliath</u>		Verb -	Myth	
<u>Pandora's Box/Jar</u>			Moral	
<u>Echo and Narcissus</u>		Adjective -	Hubris	
<u>King Midas</u>		Adverb -	Hamartia	
<u>Theseus and the Minotaur</u>		Preposition -	Narcissism	
<u>Daedalus and Icarus</u>			Temptation	
		Allegory -	Origin	
			Form and Structure	
		Allusion. -	Subject -	
			Object - Receives the _____	
		Metaphor -	Main Clause - Requires a _____ and a _____	
			Simple sentence -	
		Personification -	Compound sentence -	
			Subordinate clause -	
		Simile -	Complex sentence -	

Journeys – Knowledge Organiser

Plot	Key Characters/quotes	Abstracts and Key Vocabulary	
<p>1 An old sailor (Billy Bones) comes to stay at the Admiral Benbow Inn during the mid 1700's. He pays the innkeeper's son (Jim Hawkins) to keep a lookout for 'a seafaring man with one leg'. Blind Pew scares Billy so much that he has a stroke which eventually kills him. Jim and his mother find a treasure map. Squire Trelawney proposes that they all go and look for the treasure.</p> <p>2 Trelawney takes Jim and Dr Livesey and introduces them to Long John Silver and Captain Smollett. On the ship, Jim overhears Silver talking with two other crewmen about the fact that they are planning to mutiny.</p> <p>3 Silver and some others go ashore and kill two men who refuse to join the mutiny. Jim runs away with a half-crazy Englishman (Ben Gunn).</p> <p>4 Meanwhile Smollett, Trelawney, Livesey and others abandon the ship and construct a stockade. Silver offers a truce. Smollett refuses to surrender the map and so Silver attacks. Smollett is badly wounded.</p> <p>5 Jim runs away and finds Gunn's boat. Jim falls asleep in the boat and eventually encounters Hands, who attempts to kill Jim but Jim shoots and kills him. Jim goes back to the stockade and is caught by Silver.</p> <p>6 Silver persuades the pirates not to kill Jim. Jim and the pirates find the treasure site, but it's empty (found by Gunn years ago). The sailors ambush the pirates, save Jim, and capture Silver, who then steals a bag of money and escapes as they sail home</p>	<p style="text-align: center;"><u>Jim Hawkins</u> The protagonist. We watch him grow into a man over the course of the novel (<i>bildungsroman</i>) "My heart was sore for him, wicked as he was." (29).</p> <p style="text-align: center;"><u>Long John Silver</u> The antagonist. He challenges some of the stereotypes surrounding pirates.villains. "Flint his own self was feared of me." (11)</p> <p style="text-align: center;"><u>Squire Trelawney</u> Landed gentry – he is portrayed as a fool when he falls for Silver's plot to capture the Hispaniola. "I declare I think his conduct unmanly, unsailorly, and downright un-English." (9)</p> <p style="text-align: center;"><u>Dr Livesey</u> Middle class, educated. He is the doctor and becomes a sympathetic and practical character. "I don't put much faith in your discoveries." (8).</p>	<p>Narrative Voice- who is telling the story, the speaker of the text.</p> <p>Romanticised – To deal with or describe in an idealised or unrealistic fashion – making something seem better or more appealing than it really is.</p> <p>Bildungsroman- a story dealing with growing up or 'coming of age' (maturing).</p> <p>Role Model- a person looked to by others as an example to be copied</p> <p>Transformation- a change</p> <p>Barbarity – Savageness or cruelty.</p> <p>Justice- fairness in the way people are dealt with.</p> <p>Manipulation – The act of controlling/using someone or something for selfish purposes.</p> <p>Duplicity – Double-dealing; insincerity.</p>	
	Context	<p>Stevenson wrote Treasure Island after drawing a treasure map for his son. The novel was published in instalments from 1881-1882.</p> <p>Victorian children's novels were usually concerned with a moral allegory first. Stevenson put the plot first as he wanted to write an exciting adventure. "A story for boys; no need of psychology or fine writing."</p> <p>The novel is set in the early 18th century, a time viewed as the golden age of piracy when pirates sailed the seas, seeking treasure and adventure.</p> <p>Stevenson based the character Long John Silver on a childhood friend of his who had lost his leg.</p>	Literary Devices/Symbolism
			<p>Personification- The attribution of human characteristics to something non-human</p> <p>Pathetic fallacy – The use of the weather/ nature to portray a feeling/ mood</p> <p>Onomatopoeia- words which represent sound</p> <p>Zoomorphism- describing human behaviour as being similar to how the animal mentioned would behave</p>

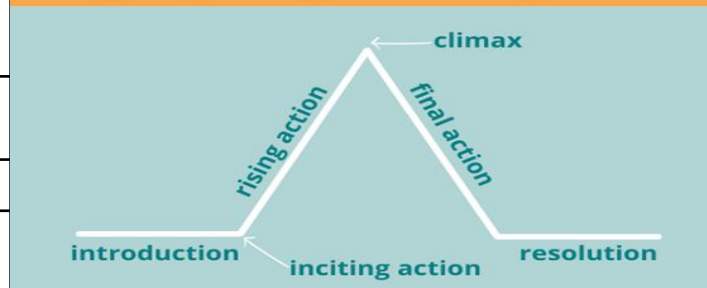
Journeys – Knowledge Organiser

	Plot	Key Characters/quotes	Abstracts and Key Vocabulary
1	An old sailor _____ comes to stay at the Admiral Benbow Inn during the mid 1700's. He pays the innkeeper's son _____ to keep a lookout for 'a seafaring man with one leg'. Blind Pew scares Billy so much that he has a stroke which eventually kills him. Jim and his mother find a treasure map . _____ proposes that they all go and look for the treasure.	<u>The protagonist. We watch him grow into a man over the course of the novel (bildungsroman.)</u> "My _____ was _____ for him, _____ as he was." (29).	_____ - who is telling the story, the speaker of the text.
		<u>The antagonist. He challenges some of the stereotypes surrounding pirates.villains.</u> " _____ his own self was _____ of me." (11)	_____ – To deal with or describe in an idealised or unrealistic fashion – making something seem better or more appealing than it really is.
2	Trelawney takes Jim and _____ and introduces them to _____ and _____. On the ship, Jim overhears Silver talking with two other crewmen about the fact that they are planning to mutiny.	<u>Landed gentry – he is portrayed as a fool when he falls for Silver's plot to capture the Hispaniola.</u> "I _____ I think his conduct unmanly, _____, and downright un-English." (9)	_____ a story dealing with growing up or 'coming of age' (maturing).
		<u>Middle class, educated. He is the doctor and becomes a sympathetic and practical character.</u> "I don't put much faith in your _____." (8).	_____ - a person looked to by others as an example to be copied
3	Silver and some others go ashore and kill two men who refuse to join the mutiny . Jim runs away with a half-crazy Englishman (_____).		_____ a change
4	Meanwhile _____, Trelawney, Livesey and others abandon the ship and construct a stockade . _____ offers a truce . Smollett refuses to surrender the map and so Silver attacks. Smollett is badly wounded .	Context	_____ – Savageness or cruelty.
		Who did Stevenson write Treasure Island for and why?	_____ fairness in the way people are dealt with.
5	_____ runs away and finds Gunn's boat. Jim falls asleep in the boat and eventually encounters Hands, who attempts to kill Jim but Jim shoots and kills him . Jim goes back to the stockade and is caught by Silver .	What were Victorian children's novels concerned with?	_____ – The act of controlling/using someone or something for selfish purposes.
			_____ the state of being cruel or vicious
6	_____ persuades the pirates not to kill Jim . Jim and the pirates find the treasure site , but it's empty (found by Gunn years ago) . The sailors ambush the pirates, save Jim, and capture Silver, who then steals a bag of money and escapes as they sail home	What was the Golden Age of piracy?	_____ – Double-dealing; insincerity.
		Who did Stevenson base Long John Silver on?	Literary Devices/Symbolism
			_____ - The attribution of human characteristics to something non-human
			_____The use of the weather/ nature to portray a feeling/ mood
			_____ words which represent sound
			_____describing human behaviour as being similar to how the animal mentioned would behave

Love – Knowledge Organiser

Plot	Key Characters		Abstracts and Key Vocabulary
<p>Romeo and Juliet' takes place over the span of four days, and teaches us about the power of love, consequences of hatred, and misunderstandings.</p> <p>The story is about two families in the city of Verona, Italy; the two families are called the Montagues and the Capulets. The two families have a strong dislike for one another.</p> <p>Romeo Montague meets Juliet Capulet at a party, and they fall in love instantly. Despite their families' feud, Romeo and Juliet decide to get married in secret. Tybalt, a hot-headed Capulet and Juliet's cousin, challenges Romeo to a fight. Romeo refuses, so Tybalt kills Romeo's friend Mercutio – causing Romeo to take his revenge.</p> <p>As a result of Romeo killing Tybalt, Romeo is banished from Verona and has to leave Juliet in Verona as a result. Juliet is then told by her mother, who does not know of her marriage to Romeo, that she is to marry a suitor called Paris.</p> <p>Juliet wants to be with Romeo and leave Verona, so she forms a plan to drink a potion that makes her appear dead. Someone would then inform Romeo that she is actually alive and on her way to him.</p> <p>This plan would result in Juliet escaping her wedding to Paris and also ensure she can live with Romeo. However, Romeo is not told about Juliet's 'death' being staged, and he returns to Verona believing that she is really dead. As a result of his grief over losing Juliet, Romeo takes his own life. Juliet wakes up, sees that Romeo is dead, and takes her own life as well to be with him in the afterlife.</p> <p>The tragic deaths of Romeo and Juliet make their families realise the consequences of their feud, so they decide to reconcile and end their conflict.</p>	Romeo	<i>A young, impulsive, and passionate Montague. His forbidden love for Juliet leads to tragic consequences.</i>	Melancholy - sadness that lasts for a long period of time, often without any obvious reason
	Juliet	<i>A beautiful and intelligent young Capulet, torn between her loyalty to her family and her love for him.</i>	Fate - events outside a person's control
	Tybalt	<i>Juliet's hot-headed cousin who is fiercely loyal to his family.</i>	Antithesis - a person or thing that is direct opposite to someone or something else.
	Mercutio	<i>A close friend of Romeo who is known for his wit and sense of humor.</i>	Tragedy : a play about death and suffering with a sad ending.
	Form and Structure		Fate - a power that some people believe causes and controls all events, so that you cannot change or control the way things will happen
	Rhyming couplets - a rhyming pair of successive lines of verse of the same length.		Conflict - a serious disagreement or argument
	Sonnet - A 14 line poem that has a tightly structured rhythm, rhyme and structure.		Feud - an argument which has been going on for a very long time
	Shakespearean sonnet - a poem comprised of three quatrains and a concluding couplet, rhyming abab cdcd efef gg		Idealistic - aiming for perfection where nothing bad can happen
	Petrarchan sonnet - a poem that divides the 14 lines into two sections: an eight-line stanza (octave) rhyming ABBAABBA, and a six-line stanza (sestet) rhyming CDCDCD or CDECDE.		Turmoil : A state of disturbance, confusion or uncertainty.
	Caesura - Punctuation that breaks a line of poetry		Unrequited : love that is not returned
	Enjambment - The running-on of a line of verse.		Prologue - a part that comes at the beginning of a play, story, or long poem, often giving information about events that happened before the time when the play, story, or poem begins
	Volta - A 'turn' that marks the change of mood in a poem.		
	Oxymoron - two words or phrases used together that have, or seem to have, opposite meanings		
	Onomatopoeia - words which represent a sound		
Extended Metaphor - a metaphor (comparison to something else) which runs through a text			

Freitag's Updated Pyramid



Love – Knowledge Organiser

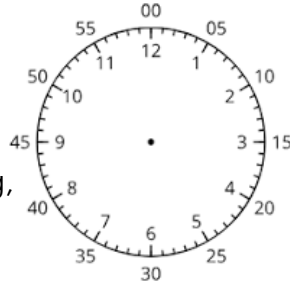
Plot	Key Characters	Abstracts and Key Vocabulary
<p>Romeo and Juliet' takes place over the _____, and teaches us about the _____ and _____. The story is about two families in the _____; the two families are called the _____ and the _____. The two families have a _____.</p> <p>_____ meets _____ at a party, and they fall in love instantly .Despite their families' f _____, _____ and _____ decide to get _____. _____, a hot-headed Capulet and _____'s cousin, challenges _____ to a fight. R_____ refuses, so _____ kills R_____ friend _____ – causing R_____ to take his _____.</p> <p>As a result of R_____ killing T_____, R_____ is _____ from V_____ and has to leave J_____ in V_____ as a result. _____ is then told by her mother, who does not know of her m_____ to R_____, that she is to marry a suitor called _____.</p> <p>_____ wants to be with _____ and leave _____, so she forms a plan to _____ makes her appear _____. Someone would then inform Romeo that she is actually _____ and on her way to him. This plan would result in Juliet escaping her _____ and also ensure she can live with Romeo. However, Romeo is not told about Juliet's 'death' being _____, and he returns to Verona believing that she is really dead. As a result of his grief over losing Juliet, Romeo _____. Juliet wakes up, sees that Romeo is _____, and takes her own life as well to be with him in _____</p> <p>The _____ of Romeo and Juliet make their families realise the consequences of their _____, so they decide to _____ and_____.</p>	<p>Romeo</p>	<p>Melancholy -</p>
	<p>Juliet</p>	<p>Fate-</p>
	<p>Tybalt</p>	<p>Antithesis-</p>
	<p>Mercutio</p>	<p>Tragedy-</p>
	<p>Form and Structure</p>	<p>Fate -</p>
	<p>Rhyming couplets -</p>	<p>Conflict-</p>
	<p>Sonnet -</p>	<p>Feud-</p>
	<p>Shakespearean sonnet -</p>	<p>Idealistic-</p>
	<p>Petrarchan sonnet -</p>	<p>Turmoil-</p>
	<p>Caesura –</p>	<p>Unrequited-</p>
<p>Enjambment –</p>	<p>Prologue -</p>	
<p>Volta –</p>	<p>Freitag's Updated Pyramid</p>	
<p>Oxymoron –</p>	<pre> graph TD A[introduction] --> B[inciting action] B --> C[<i>rising action</i>] C --> D[climax] D --> E[<i>final action</i>] E --> F[resolution] </pre>	
<p>Extended Metaphor -</p>		

Time

60 seconds in a minute
60 minutes in an hour

12 hour – am in the morning,
pm in the afternoon

24 hour – if a time is pm then
add 12 hours



Factors & Multiples

Factors are the integers that divide a number – they 'go into'

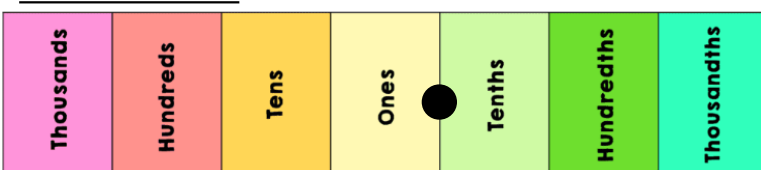
Multiples are the result of multiplying a number by integers – they are that numbers times tables

HCF/LCM

HCF (highest common factor) is the largest number that is a factor of both numbers

LCM (lowest common multiple) is the smallest number in both numbers list of multiples

Place Value



Rounding/estimation

0, 1, 2, 3, 4 round down

5, 6, 7, 8, 9 round up

To estimate, first round all numbers to 1sf

13.679
↑ 1sf ↑ 1dp

sf – significant figure
dp – decimal place

FDP

Decimal $\xrightarrow{\times 100}$ Percentage
 $\xleftarrow{\div 100}$

$$34\% = \frac{34}{100} \xrightarrow{\div 2} \frac{17}{50}$$

$$\frac{3}{4} \xrightarrow{\times 25} \frac{75}{100} = 75\%$$

Year 7 Number

Fractions

$\frac{3}{5}$ - Numerator

Denominator

Shows how many parts out of the whole

Can be simplified by dividing both numerator and denominator by the same number

Ratio

Simplify ratio like fractions

$$\div 2 \left(\begin{array}{l} 4 : 10 \\ 2 : 5 \end{array} \right) \div 2$$

Draw out boxes and split total into the number of boxes given

Share £42 in the ratio 2:5

2	6	6			
5	6	6	6	6	6

$$342 \div 7 = 6$$

£12 : £30

Squares and Cubes

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

$$0^3 = 0$$

$$1^3 = 1$$

$$2^3 = 8$$

$$3^3 = 27$$

$$4^3 = 64$$

$$5^3 = 125$$

$$6^3 = 216$$

$$\cdot$$

$$\cdot$$

$$\cdot$$

$$10^3 = 1000$$

Percentages

Means 'out of 100'

$\div 10$	100%	320	$\div 10$
	10%	32	
$\times 2$	20%	64	$\times 2$

You can add percentages together.

E.g. if 10% = 4 and 5% = 2 then

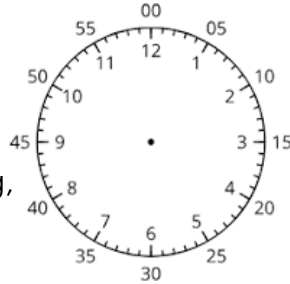
$$15\% = 10\% + 5\% = 4 + 2 = 6$$

Time

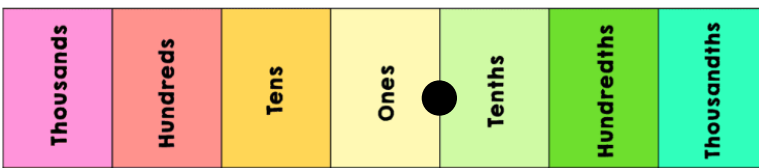
___ seconds in a minute
 ___ minutes in an hour

12 hour – am in the morning,
 pm in the afternoon

24 hour – if a time is pm then
 add 12 hours



Place Value



Rounding/estimation

0, 1, 2, 3, 4 round ___

5, 6, 7, 8, 9 round ___

To estimate, first round all numbers to ___

247.81 3rd sf =
 1st dp =

FDP

Decimal \longleftrightarrow Percentage

20% =

$\frac{1}{4}$ =

Factors & Multiples

List the **Factors** of 18

List the first 6 **Multiples** of 4

Year 7 Number Quiz

Fractions

$\frac{3}{5}$ - Numerator

$\frac{3}{5}$ - Denominator

Shows how many parts out of the whole

Can be simplified by _____ both numerator and denominator by the same number

Percentages

Means 'out of 100'

100%	160
10%	
5%	

You can add percentages together.

E.g. if 10% = 12 and 5% = 6 then

15% =

HCF/LCM

HCF (highest common factor) is the

LCM (lowest common multiple) is the

Ratio

Simplify ratio like fractions

4 : 10

Draw out boxes and split total into the number of boxes given

Share £70 in the ratio 2:5



Squares and Cubes

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

$0^3 = 0$

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$2^3 = 8$

$3^3 = 27$

$4^3 = 64$

$5^3 = 125$

$6^3 = 216$

.

.

.

$10^3 = 1000$

Algebraic Notation

We do not use multiplication signs: $3 \times a = 3a$

We do not use division signs: $3 \div a = \frac{3}{a}$

To collect like terms we add/subtract terms with the same coefficient and power

$$\begin{array}{ccccccc} 3x^2 & + & 4x & - & 5 & + & 2x & + & 10x^2 & - & 1 \\ \hline 13x^2 & + & 6x & - & 6 \end{array}$$

Substitution

Substitution means **replace**

If $x = 5$ we replace x with 5

So $3x - 1$ becomes $3(5) - 1$
 $15 - 1$
 14

Inverse Operations

Operation	Inverse
Adding	Subtracting
Subtracting	Adding
Multiplying	Dividing
Dividing	Multiplying

Operations

Adding	Sum, total, plus, more, ...
Subtracting	Difference, fewer, less than, below, ...
Multiplying	Product, lots of, times, ...
Dividing	Split into, equally shared, goes into, ...

Inequalities

- $x < 3$ "x is less than 3"
- $7 \leq y$ "7 is less than or equal to y"
- $e > f$ "e is greater than f"
- $14 \geq t$ "14 is greater than or equal to t"

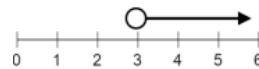
$$\bullet \leq \geq$$

$$\circ < >$$

$$x \leq 5$$



$$x > 3$$



Year 7 Algebra

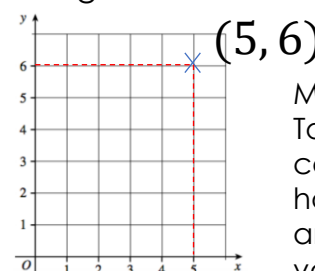
Solving

- Draw a line through the equals sign
- Get rid of numbers by doing the inverse operation
- Whatever you do to one side you **MUST** do to the other!

$$\begin{array}{l} 2x + 5 = 17 \\ -5 \quad \quad \quad -5 \\ \hline 2x = 12 \\ \div 2 \quad \quad \quad \div 2 \\ \hline x = 6 \end{array}$$

Coordinates

Along the corridor, up the stairs - (x, y)



Midpoints:
To find the midpoint of two coordinates you need to find halfway between the x values and halfway between the y values.

Expanding

← Opposite things →

Multiplying out brackets

$3(x + 5)$ means 3 multiplied by all of $x + 5$

\times	x	$+5$
3	$3x$	$+15$

Start on the outside and multiply to get the middle

Always write your answer separately

$$3x + 15$$

Factorising

Putting into brackets

You need to identify common factors

\times	x	$+7$
5	$5x$	$+35$

Start in the middle and get the outside

Always write your answer separately

$$5(x + 7)$$

Sequences

$$2, 5, 8, 11, 14, \dots$$

$\overset{\text{red}}{\curvearrowright} -3 \quad \overset{\text{blue}}{\curvearrowright} +3 \quad \overset{\text{blue}}{\curvearrowright} +3 \quad \overset{\text{blue}}{\curvearrowright} +3$

Working backwards gets us to 2 which is what we add on the end

It goes up by 3 so the nth term is $3n$

$$3n + 2$$

Algebraic Notation

We do not use multiplication signs: $3 \times a = 3a$

We do not use division signs: $3 \div a = \frac{3}{a}$

To collect like terms we add/subtract terms with the same coefficient and power

$$5a - 7b + 2a + 10b$$

Substitution

Substitution means **replace**

If $x = 5$ we replace x with $\underline{\quad}$

So $4x + 2$ becomes $\underline{\quad}$

Inverse Operations

Operation	Inverse
Adding	
Subtracting	
Multiplying	
Dividing	

Year 7 Algebra Quiz

Operations

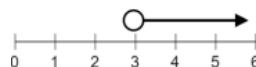
Adding	
Subtracting	
Multiplying	
Dividing	

Inequalities

- $x < 3$ "x is $\underline{\quad}$ than 3"
- $7 \leq y$ "7 is less than $\underline{\quad}$ y"
- $e > f$ "e is $\underline{\quad}$ than f"
- $14 \geq t$ "14 is $\underline{\quad}$ t"

●
≤ ≥

○
< >

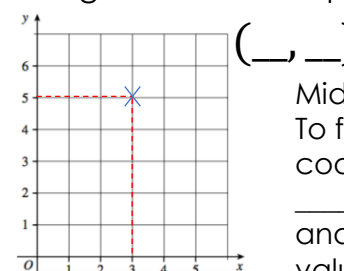


Solving

- Draw a line through the equals sign $5x - 11 = 4$
- Get rid of numbers by doing the inverse operation
- Whatever you do to one side you **MUST** do to the other!

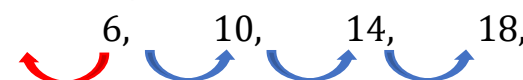
Coordinates

Along the corridor, up the stairs - (x, y)



Midpoints:
To find the midpoint of two coordinates you need to find $\underline{\quad}$ between the x values and $\underline{\quad}$ between the y values.

Sequences



Expanding

← Opposite things →

Multiplying out brackets

$7(x - 2)$ means $\underline{\quad}$ multiplied by all of $x - 2$

×	x	-2
7		

Start on the outside and multiply to get the middle

Always write your answer separately

Factorising

Putting into brackets

You need to identify common factors

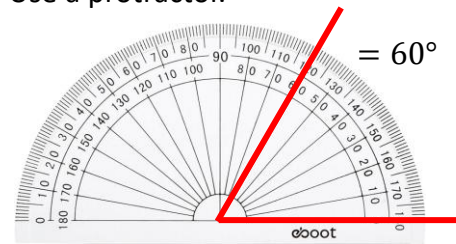
×		
	$6x$	$+24$

Start in the middle and get the outside

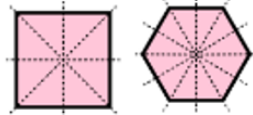
Always write your answer separately

Measuring Angles

Use a protractor.



Symmetry



Lines of Symmetry:

Straight Lines that divide shapes into 2 equal parts.

Rotational Symmetry: The number of times a shape can 'fit into itself' when it is rotated 360° about its centre.

Unit Conversions

$$1 \text{ cm} = 10 \text{ mm}$$

$$1 \text{ m} = 100 \text{ cm}$$

$$1 \text{ km} = 1000 \text{ m}$$

$$1 \text{ litre} = 1000 \text{ ml}$$

$$1 \text{ kg} = 1000 \text{ g}$$

Shapes

Parallelogram:

2 pairs of equal sides.

2 pairs of parallel sides.

2 pairs of equal angles.

Rhombus:

All sides equal length.

2 pairs of parallel sides.

2 pairs of equal angles.

Trapezium:

1 pair of parallel sides.

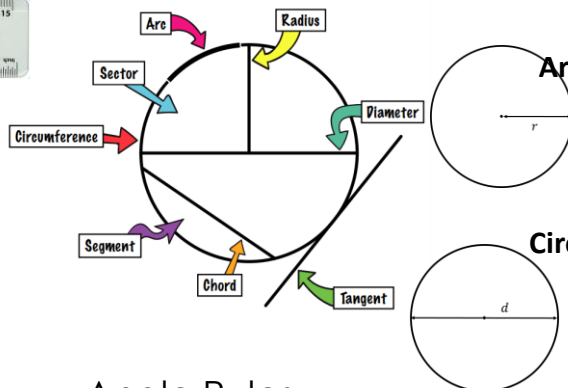
Measuring Lines

Use a ruler.

$$= 7.5 \text{ cm}$$



Circles



Area of a circle:

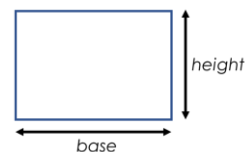
$$A = \pi r^2$$

Circumference of a circle:

$$C = \pi d$$

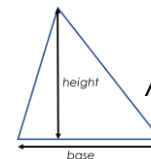
Area

The space within a 2D shape.



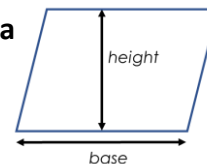
Square/Rectangle:

$$A = b \times h_p$$



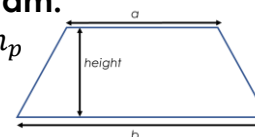
Triangle:

$$A = \frac{1}{2} \times b \times h_p$$



Parallelogram:

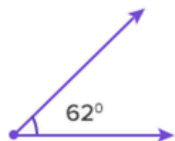
$$A = b \times h_p$$



Trapezium:

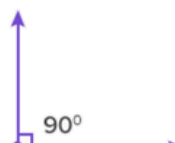
$$A = \frac{(a+b)}{2} \times h$$

Types of Angle



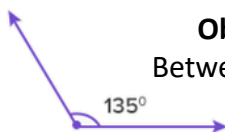
Acute Angle

Less than 90°



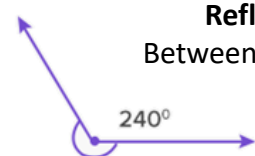
Right Angle

90°



Obtuse Angle

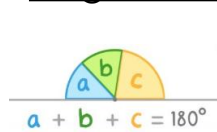
Between 90° & 180°



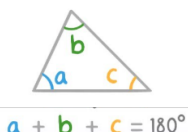
Reflex Angle

Between 180° & 360°

Angle Rules



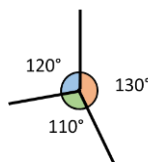
Angles on a straight line sum to 180°



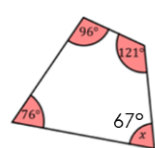
Angles in a triangle sum to 180°



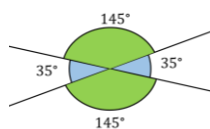
Base angles in an isosceles triangle are equal.



Angles around a point sum to 360°



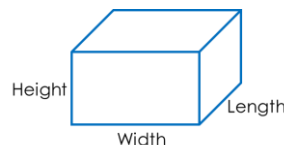
Angles in a quadrilateral sum to 360°



Vertically opposite angles are equal.

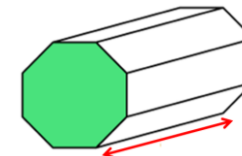
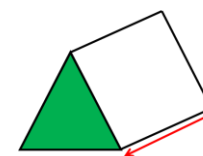
Volume

The space within a 3D shape.



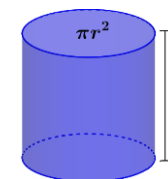
Cuboid/Cube:

$$V = l \times w \times h$$



Prism:

$$V = \text{Area of Cross-Section} \times \text{Length}$$



Cylinder:

$$V = \pi r^2 \times h$$

Surface Area

The total area of all faces of a 3D shape.

1. Find area of each face.
2. Add the areas together.

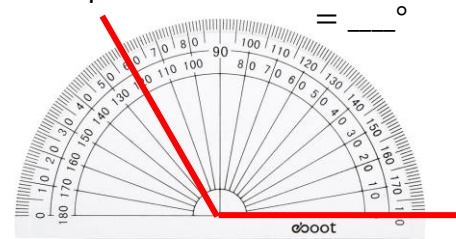
Year 7 Geometry

Perimeter

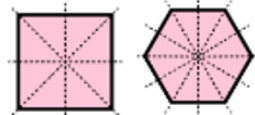
The distance around a 2D shape.
Add all side lengths together.

Measuring Angles

Use a protractor.

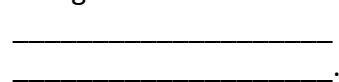


Symmetry



Lines of Symmetry:

Straight Lines that



Rotational Symmetry: The number of times a shape can '_____,' when it is rotated 360° about its centre.

Unit Conversions

1 cm = --- mm

1 m = --- cm

1 km = --- m

1 litre = --- ml

1 kg = --- g

Shapes

Parallelogram:

- --- pairs of equal sides.
- --- pairs of parallel sides.
- --- pairs of equal angles.

Rhombus:

- --- sides equal length.
- --- pairs of parallel sides.
- --- pairs of equal angles.

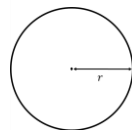
Trapezium:

- --- pair of parallel sides.

Perimeter The _____ around a 2D shape.
Add all side lengths together.

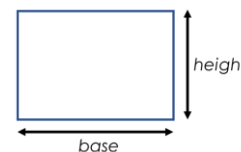
Area The space within a 2D shape.

Quiz



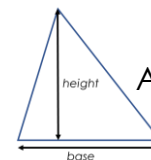
Area of a circle:

$A =$



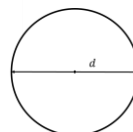
Square/Rectangle:

$A =$



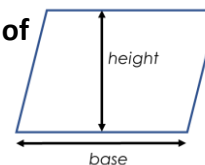
Triangle:

$A =$



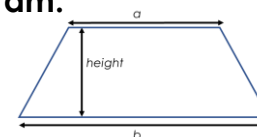
Circumference of a circle:

$C =$



Parallelogram:

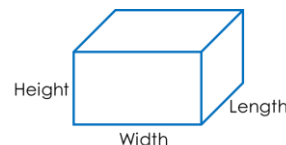
$A =$



Trapezium:

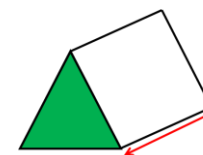
$A =$

Volume The space within a 3D shape.

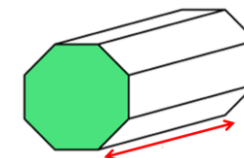


Cuboid/Cube:

$V =$



$V =$

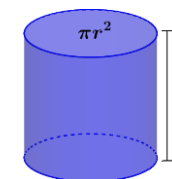


Prism:

Surface Area

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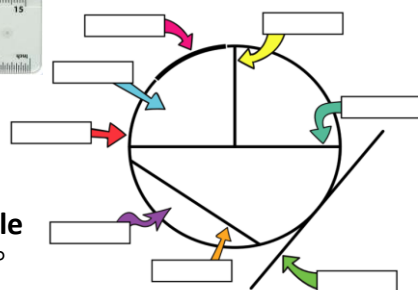


Cylinder:

$V =$

Year 7 Geometry

Circles

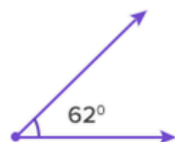


Measuring Lines

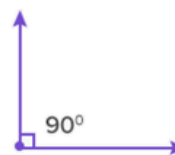
Use a ruler. = --- cm



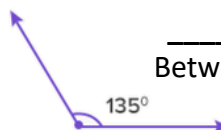
Types of Angle



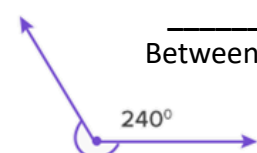
Angle
Less than 90°



Angle
 90°



Angle
Between 90° & 180°



Angle
Between 180° & 360°

Angle Rules



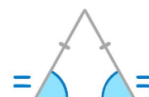
$$a + b + c = 180^\circ$$

Angles on a straight line

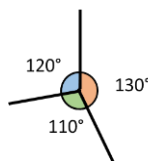


$$a + b + c = 180^\circ$$

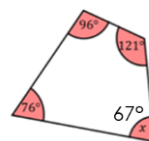
Angles in a triangle



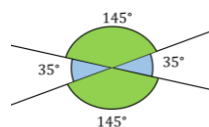
Base angles in an isosceles triangle are _____.



Angles around a point



Angles in a quadrilateral

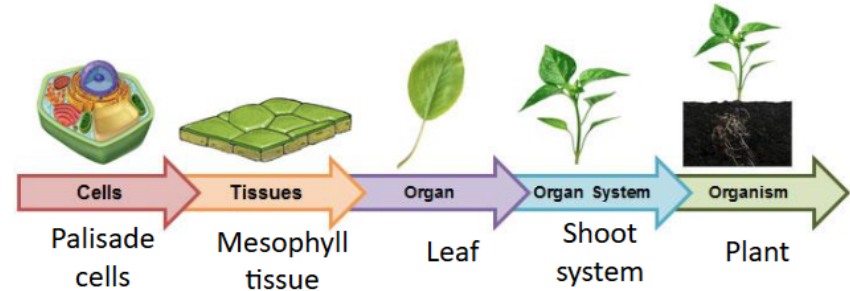
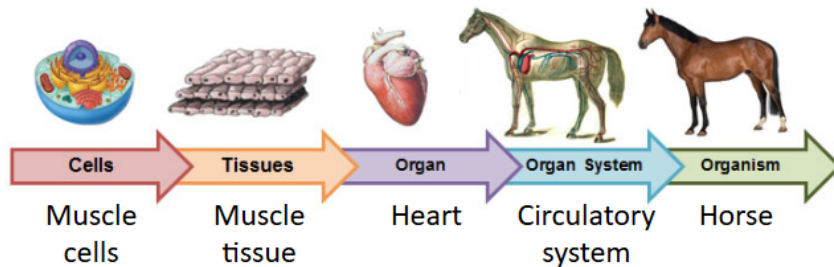


Vertically opposite angles are _____.

Y7 Biology - Organisation

Cells are the building blocks of life. Cells rarely work alone.

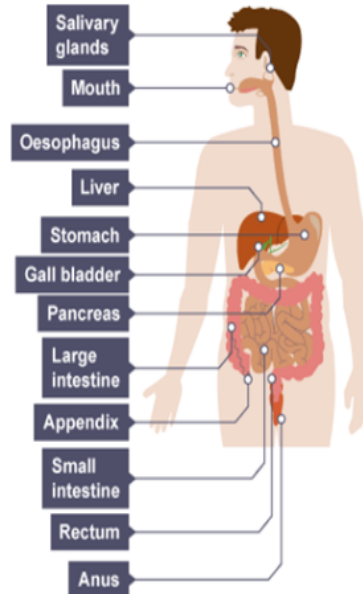
Hierarchy



The digestive system

Food is digested in the digestive system, this is an organ system.

- The mouth has teeth that mechanically digest the food
- The mouth also has a salivary gland that releases enzymes to break the food down.
- The oesophagus is a muscular tube that pushes the food into the stomach.
- The stomach churns the food up, while also adding acid and enzymes to break the food down.
- In the small intestine, food is broken down further and is absorbed through the walls of the intestine into the blood.
- The large intestine absorbs any remaining water
- Finally the food passes through the anus as faeces

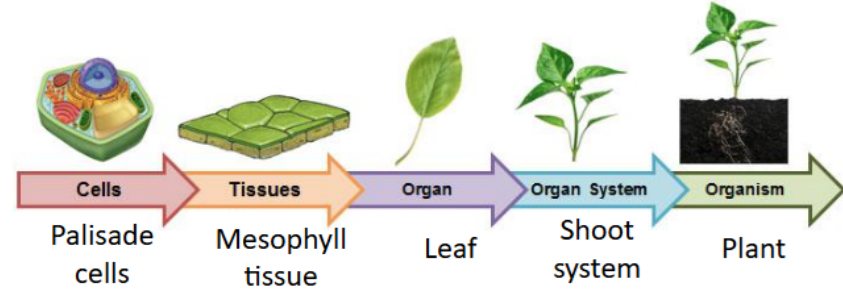
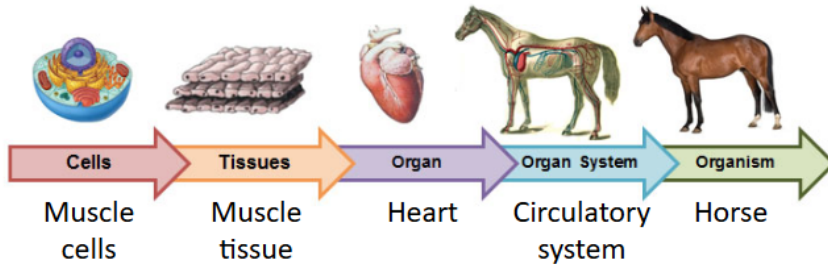


Key Terms	Definitions
Cell	The building block of life and the smallest structural unit of an organism
Tissue	A group of cells working together to perform a particular function
Organ	A group of tissues working together to perform a particular function
Organ system	A group of organs working together to perform a particular function
Organism	An individual animal, plant, or single-celled life form
Digestive System	The organ system that breaks down food into small pieces
Mechanical Digestion	When large pieces of food are broken down into smaller ones (e.g. by chewing)
Chemical Digestion	When food is broken down into small, soluble chemicals, enzymes help with this
Enzymes	Proteins that break large pieces of food into smaller pieces

Y7 Biology - Organisation

Cells are the building blocks of life. Cells rarely work alone.

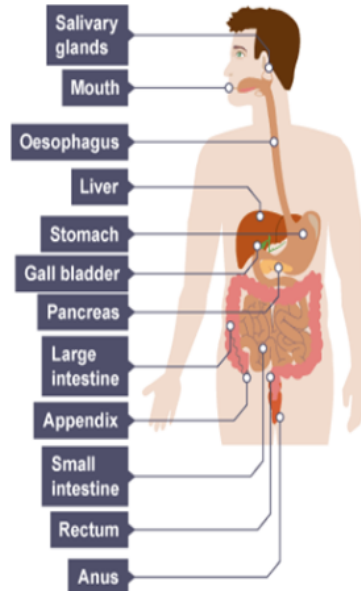
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Y7 Biology - Organisation

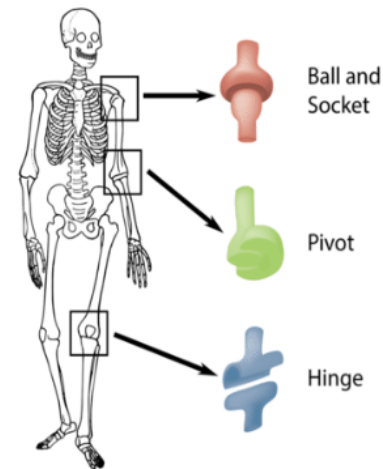
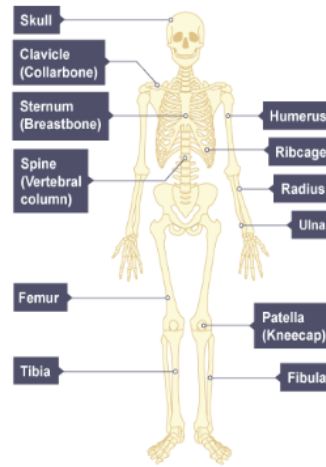
The skeletal system

The skeletal system is made of bones and joints.

It is sometimes called the skeleton

The skeletal system has 4 main functions:

- To allow movement
- To provide support
- To protect
- To produce blood cells.



Joints

Joints can consist of connective tissues :

Cartilage protects the ends of bones

Tendons connect muscle to bone

Ligaments connect bone to bone

Synovial fluid provides lubrication within the joint

There are different types of joints, for example:

- Ball and socket joints** (in your hip or shoulder)
- Pivot joints** (let you turn your neck or rotate your forearm)
- Hinge joints** (in your elbow or knee)
- Fixed joints** (found in your skull)

Key Terms	Definitions
Connective Tissue	Tissue that connects or supports other tissues or organs e.g. ligaments, cartilage or tendons
Ligaments	Stabilises joints, connects bones to other bones
Cartilage	Connective tissue which is found at the end of bones to cover and protect them.
Tendons	Connects muscles to the skeletal system.
Antagonistic Pairs	Pairs of muscles where each opposes the movement of the other e.g. biceps and triceps
Stimulus	A specific event which leads to a reaction.
Central Nervous System (CNS)	The brain and the spinal cord.

Nervous system:

- Muscles are controlled by nerves.
- Nerves are stimulated by changes in the environment .
- Nerve cells then carry electrical signals to and from the central nervous system.
- Some responses are automatic (reflexes) and others are conscious.

A Balanced diet includes :

- Carbohydrates
- Minerals
- Vitamins
- Proteins
- Fibre
- fats



Y7 Biology - Organisation

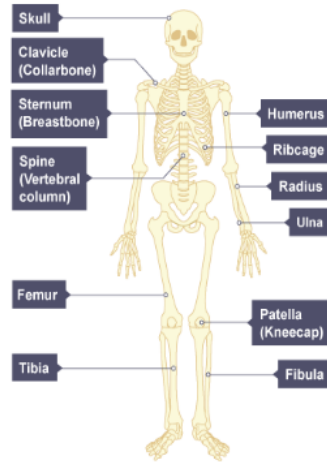
The skeletal system

The skeletal system is made of and

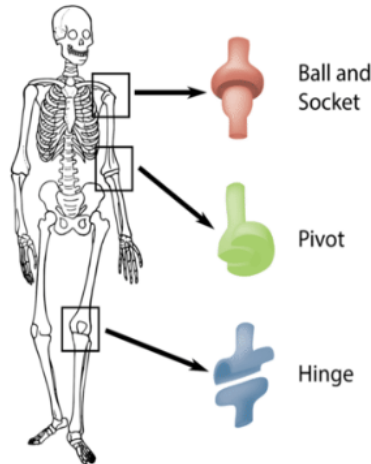
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- To provide
- To
- To produce



Key Terms	Definitions
.....	Tissue that connects or supports other tissues or organs e.g. ligaments, cartilage or tendons
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Tendons	Connects to the system.
.....	Pairs of muscles where each opposes the movement of the other e.g. and
Stimulus	A specific event which leads to a reaction.
..... (CNS)	The brain and the spinal cord.



Joints

Joints can consist of connective tissues :

Cartilage protects the ends of bones

Tendons connect muscle to bone

Ligaments connect bone to bone

Synovial fluid provides lubrication within the joint

There are different types of joints, for example:

- Ball and socket joints** (in your or))
- **joints** (let you turn your neck or rotate your forearm)
- Hinge joints** (in your Or))
- **joints** (found in your skull)

Nervous system:

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- Nerve cells then carry to and from the central nervous system.
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A Balanced diet includes :

- C.....
- M.....
- V.....
- P.....
- F.....
- f.....

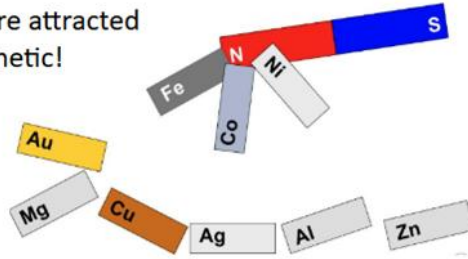


Year 7 Physics Knowledge Organiser - Electricity and magnetism

Magnetic materials: Not many materials are attracted to magnets and most metals are NOT magnetic!

Iron, cobalt and nickel are magnetic metal elements.

Steel is also magnetic as it is a mixture containing mostly iron.



Magnetic poles: All magnets have a north pole and a south pole.

Opposite poles attract. Attract

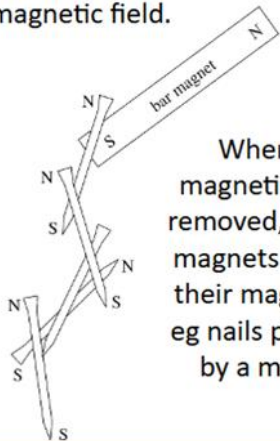
Repel

Like poles repel.

Repel

Permanent magnets always have magnetic properties.

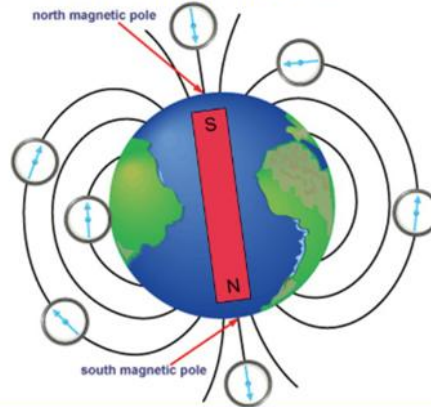
Magnetic materials become **induced magnets** when they are in a magnetic field.



When the magnetic field is removed, induced magnets will lose their magnetism, eg nails picked up by a magnet.

The earth has a molten iron core which causes a magnetic field.

If there are no other magnets nearby, a compass needle points in the direction of the **Earth's magnetic field**.



Key Terms	Definitions
Magnetism	A property of some materials to exert a force on other magnetic materials.
Attract	Force that pulls two objects together.
Repel	Force that pushes two objects apart.
Magnetic poles	All magnets have a north pole and a south pole.
Permanent magnet	Permanent magnets always have magnetic properties.
Induced magnet	Induced magnets only act as magnets when they are in a magnetic field.
Magnetic field	The area around a magnet that the force acts.
Magnetic compass	A magnetic compass always points along field lines in the direction of north.

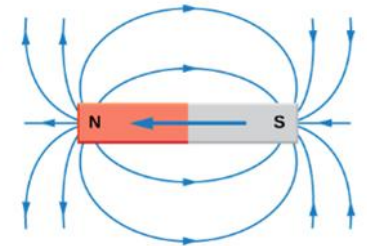


A magnetic **compass** contains a small bar magnet (the needle). A nearby magnet field will cause the needle to move in line with the magnetic field.

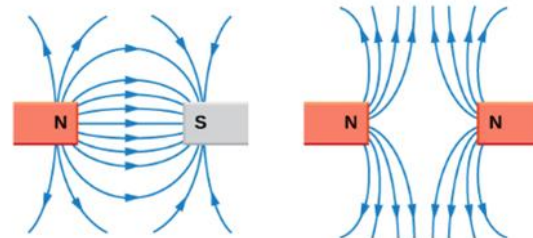


The area around a magnet where its force can affect other magnetic objects is called the **magnetic field**.

The magnetic field is invisible but we can use a compass or iron filings to view the shape of the field.



Field lines always point from north to south.



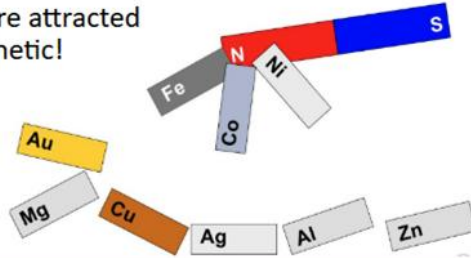
The magnet fields of attracting magnets line up, while the magnetic fields of repelling magnets do not.

Year 7 Physics Knowledge Organiser - Electricity and magnetism

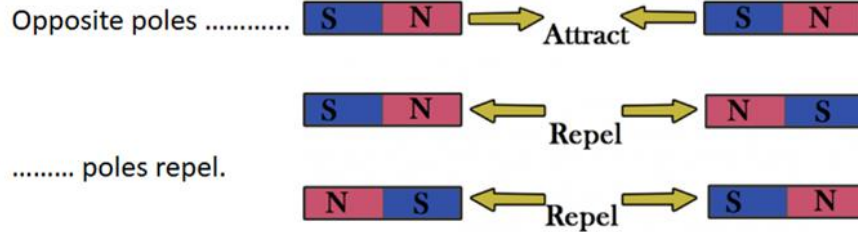
Magnetic materials: Not many materials are attracted to magnets and most metals are NOT magnetic!

....., and are magnetic metal elements.

Steel is also magnetic as it is a mixture containing mostly

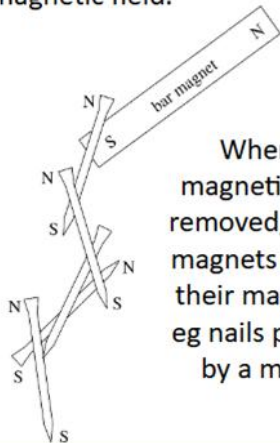


Magnetic poles: All magnets have a pole and a pole.



Permanent magnets have magnetic properties.

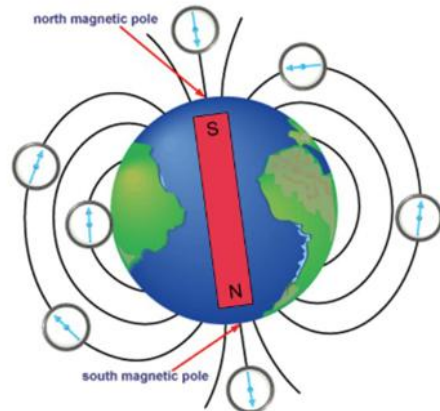
Magnetic materials become **magnets** when they are in a magnetic field.



When the magnetic field is removed, induced magnets will their magnetism, eg nails picked up by a magnet.

The earth has a molten core which causes a magnetic field.

If there are no other magnets nearby, a compass needle points in the direction of the **Earth's magnetic field**.



Key Terms	Definitions
Magnetism	A property of some materials to exert a on other magnetic materials.
.....	Force that pulls two objects together.
.....	Force that pushes two objects apart.
Magnetic poles	All magnets have a pole and a pole.
..... magnet	..... magnets always have magnetic properties.
Induced magnet	Induced magnets only act as magnets when they are in a
Magnetic field	The around a magnet that the force acts.
Magnetic compass	A magnetic compass always points along field lines in the direction of

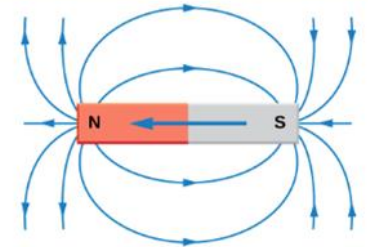


A magnetic **compass** contains a small (the needle). A nearby magnet field will cause the needle to move in line with the magnetic field.

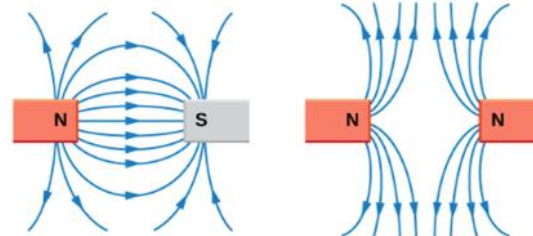


The area around a magnet where its can affect other objects is called the **magnetic field**.

The magnetic field is invisible but we can use a or to view the shape of the field.



Field lines always point from to



The magnet fields of magnets line up, while the magnetic fields of magnets do not.

Year 7 Physics Knowledge Organiser - Electricity and magnetism

Some particles are charged.

Charge can be positive (+), negative (-), or neutral (0).

Like charges repel.



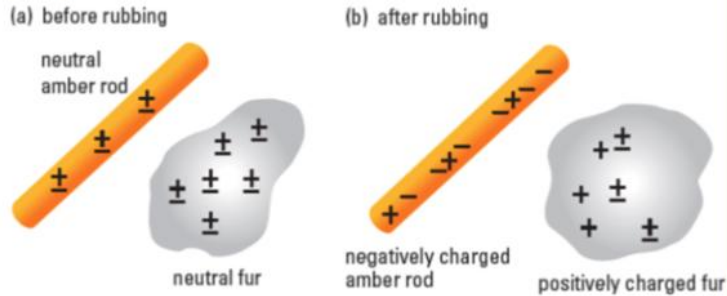
Opposite charges attract.



Charging objects with friction:

Electrical insulators can become charged.

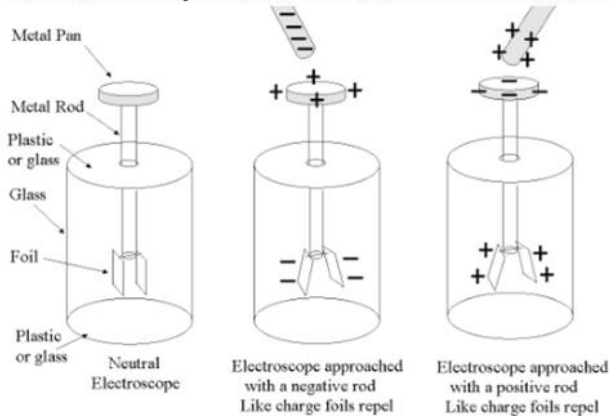
An object that is rubbed can become charged **by gaining OR losing electrons** because of the friction force.



An object that loses electrons becomes positive (+)

An object that gains electrons becomes negative (-)

An **electroscope** can be used to detect electrical charge on objects.



A positively charged object will attract electrons from the foil leaves and onto the metal pan. This makes the foil leaves positively charged so they repel each other.

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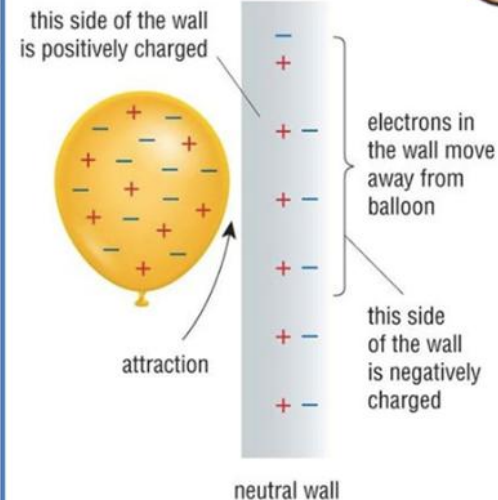
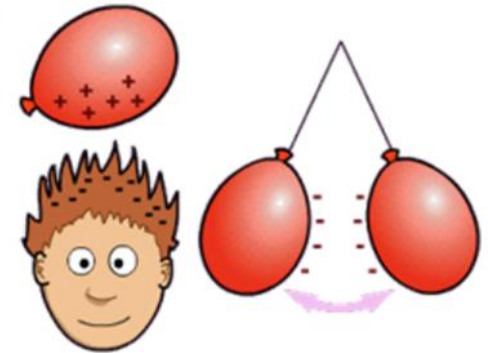
The bigger the charge, the more the foil leaves repel each other.

Key Terms	Definitions
Charge	A property of some particles, which causes them to experience a force when they are near others. Charge can be positive, negative or neutral .
Electron	A particle with a negative charge .
Electrical insulator	A material that prevents the flow of electrons.
Electrical conductor	A material that allows the flow of electrons.
Static electricity	This occurs when the positive and negative charges on an electrical insulator are unbalanced.
Electroscope	An instrument that can be used to detect electrical charge.

Charged objects and forces

Objects with opposite charges are attracted to one another.

Objects with the same static charge will repel each other.



A charged object can be attracted to a neutral object.

Electrons near the surface of the neutral object move when the charged object is brought near it.

This causes the surface of the neutral object to be charged so that attraction can occur.

Year 7 Physics Knowledge Organiser - Electricity and magnetism

Some particles are charged.

Charge can be (+), (-), or (0).

Like charges



Opposite charges

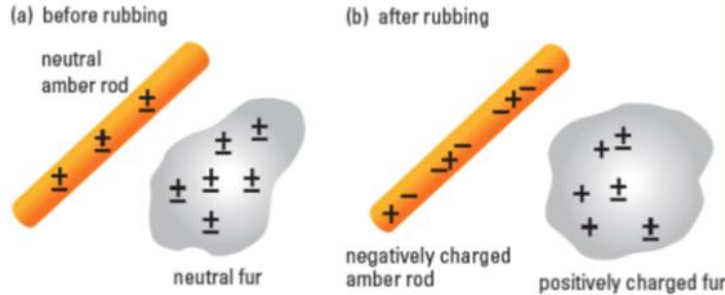


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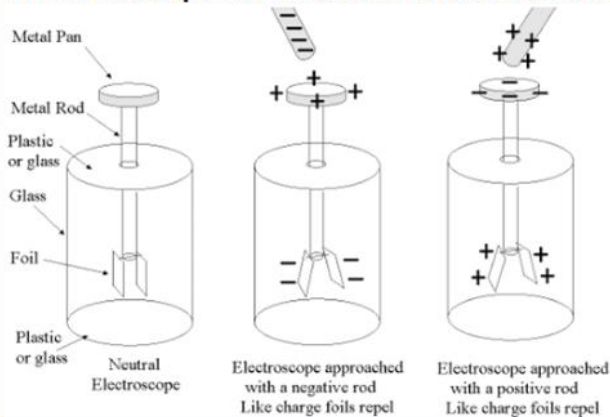
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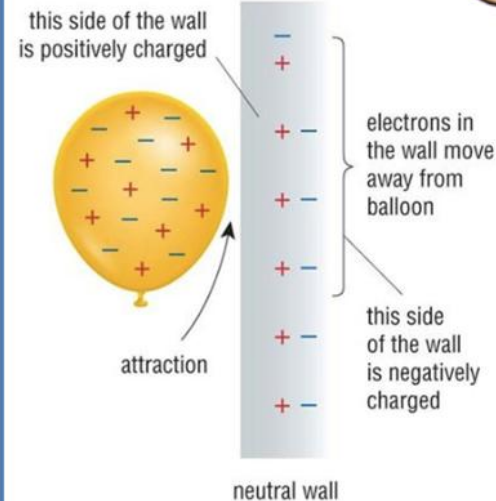
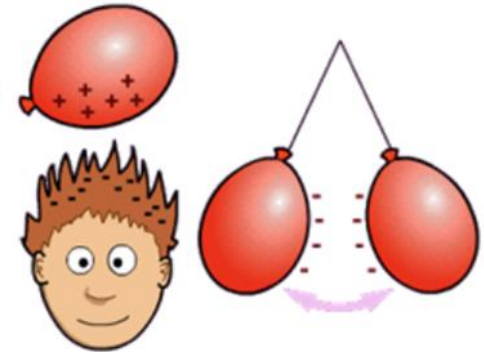
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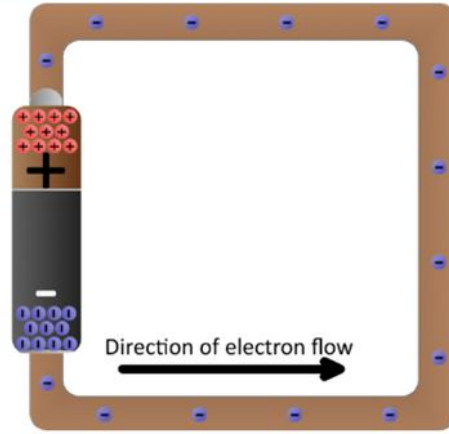
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Year 7 Physics Knowledge Organiser - Electricity and magnetism

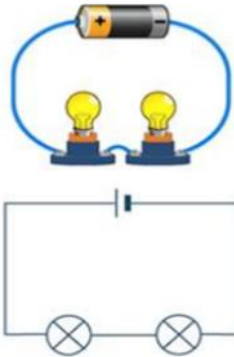
Electrical current is a flow of electrical charge.

Electrical conductors allow electrons to flow through them.

A cell or battery sets up the difference in charge in the circuit, which causes electrons to flow from the negative charge towards the positive charge.



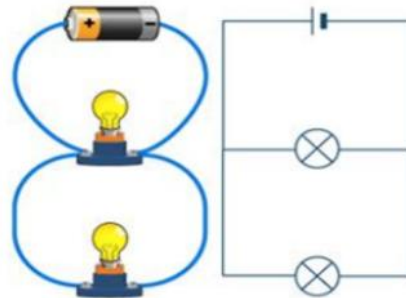
Drawing circuit diagrams: to make circuits easier to understand, we use symbols for the components that are recognised across the world and draw the connecting wires as straight lines.



Series circuits contain only one loop or path for the current to flow.

The more bulbs you put in the circuit, the dimmer the bulbs get.


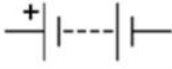


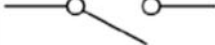

If one bulb breaks, the whole circuit stops working.



Parallel circuits contain more than one loop or path for the current to flow.

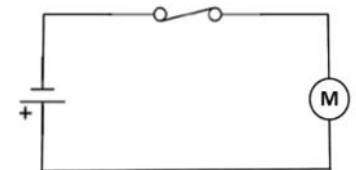
Adding new bulbs to the circuit in their own loop (connected in parallel) does not affect the brightness of other bulbs in the circuit.

If one bulb breaks, the rest of the circuit still works!

Key Terms	Definitions
Electrical current	A flow of electrical charge.
Cell 	A chemical store of energy that can cause an electrical current to flow in a circuit.
Battery 	Two or more electrical cells working together.
Connecting lead 	A metal wire that allows current to flow through it easily.
Lamp / bulb 	A filament lamp contains a tiny wire that heats up when a current flows through it which emits light.
Open switch 	This provides a break in an electrical circuit so that current cannot flow.
Closed switch 	This connects the electrical circuit and allows current to flow.
Series circuit	An electrical circuit where all the components are connected in one loop.
Parallel circuit	An electrical circuit containing more than one loop or path for the current to flow.
Energy pathway	A way of transferring energy from one store to another, for example electrical current.

Electrical current is an **energy pathway** – it transfers or shifts energy from one store to another. We call this electrical working (or electrical work done).

eg this circuit transfers energy from the cell (a chemical store) to the motor (a kinetic store)

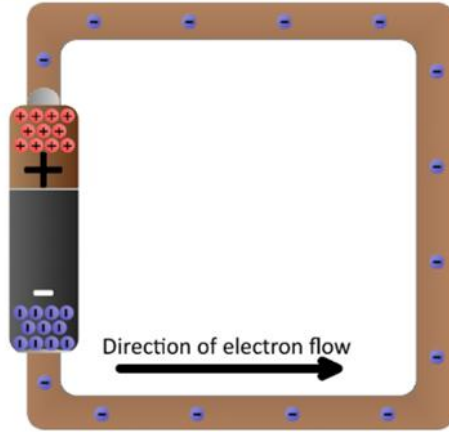


Year 7 Physics Knowledge Organiser - Electricity and magnetism

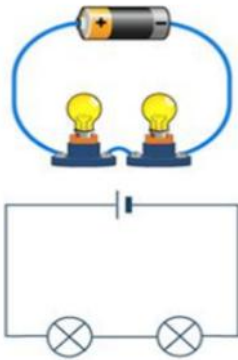
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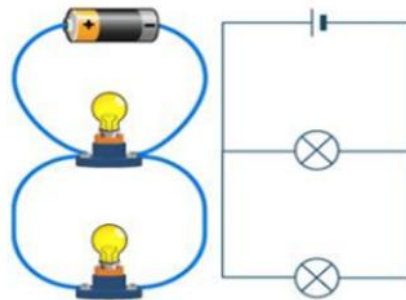
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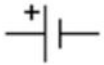
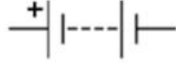


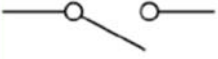

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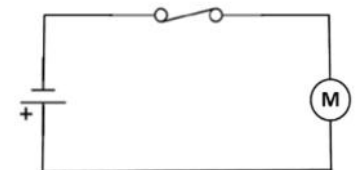
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Electrical current is an **energy** – it transfers or shifts energy from one store to another. We call this electrical(or electrical).

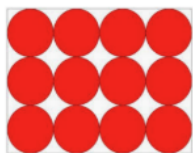
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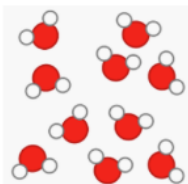
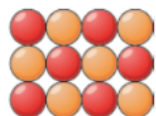
Year 7 Chemistry Knowledge Organiser – Elements and Compounds

The atoms in the diagram are all the same **colour** and **size**, showing that they are the same type of element.

The diagram shows a solid element, such as sodium, carbon or copper.



The diagram shows a gaseous element, such as oxygen, nitrogen or chlorine.



Both diagrams show compounds because the atoms are different **colours** and, on the lower diagram, different **sizes**.

The properties of **metals** are:

- High melting point
- Conductor of electricity and heat
- Malleable

The properties of **nonmetals** are:

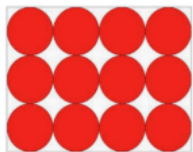
- low melting and boiling point
- insulator
- brittle

Key Terms	Definitions
Atom	Atoms are the smallest units of matter that have the properties of an element.
Element	- Elements are substances made of one type of atom.
Compound	Compounds are substances made of two or more different elements chemically bonded together.
Scientific model	A way of understanding a scientific concept that usually involves simplifying the concept.
Property	A way of describing how a chemical acts or behaves.
Malleable	Can be hammered or pressed into shape without breaking or cracking.
Conductor	Allow electricity or heat to pass through.
Atomic mass	The number of protons and neutrons in an atom
Atomic weight	How much an atom of that element weighs

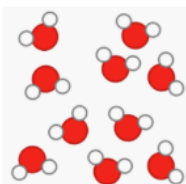
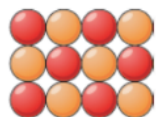
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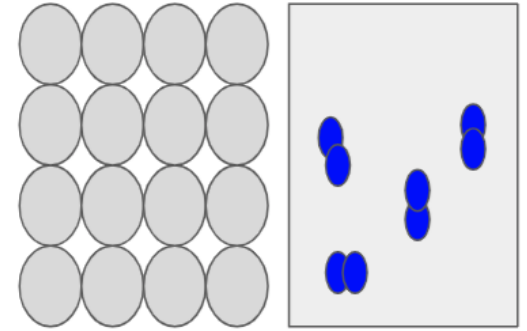
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- Conductor of and
- M.....

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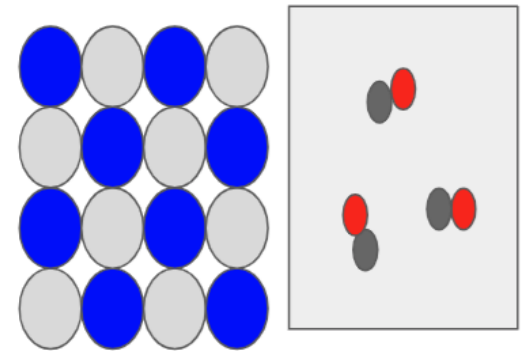
- low and boiling point
-
- b.....

Key Terms	Definitions
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Element	Elements are substances made of of atom.
Compound	Compounds are made of two or more different chemically bonded together.
S.....	A way of understanding a scientific concept that usually involves simplifying the concept.
.....	A way of describing how a chemical acts or behaves.
Malleable	Can be hammered or pressed into shape without or
C.....	Allow electricity or heat to pass through.
Atomic mass	The mass of an atom. Each element has a different mass.

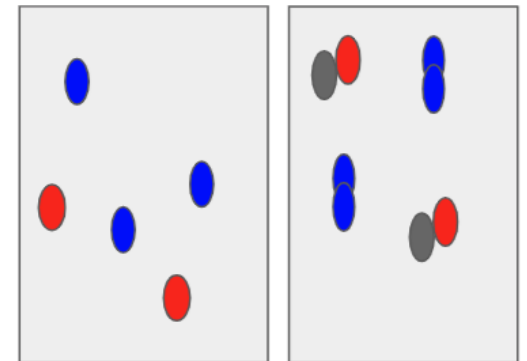
- An element is made up of only one type of atom
- All the atoms have the same number of protons
- Can be many atoms bonded together but all are the same kind of atom
- Example: Carbon, Hydrogen, O₂



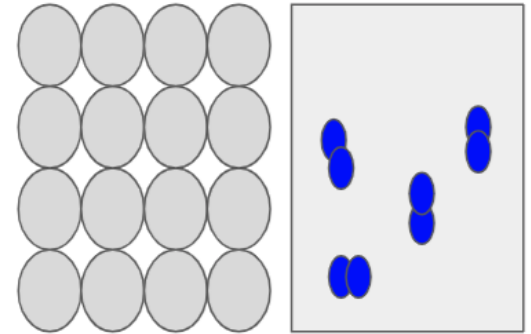
- A compound is two or more elements chemically joined together
- Example: Sodium Chloride NaCl



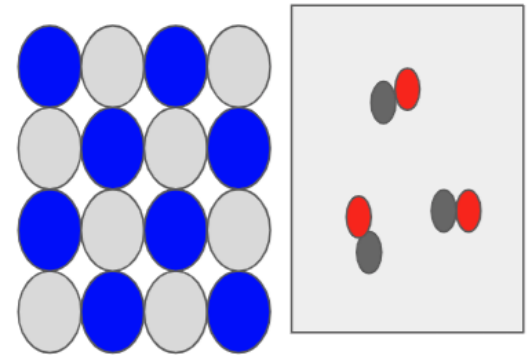
- A mixture is two or more different substances not chemically joined together
- Can be mixtures of compounds, elements, elements and compounds.
- Example: Steel, Orange juice, Wood



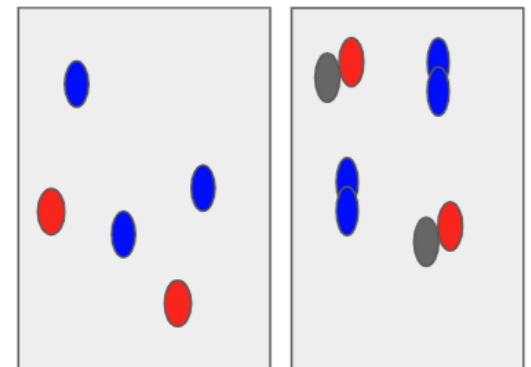
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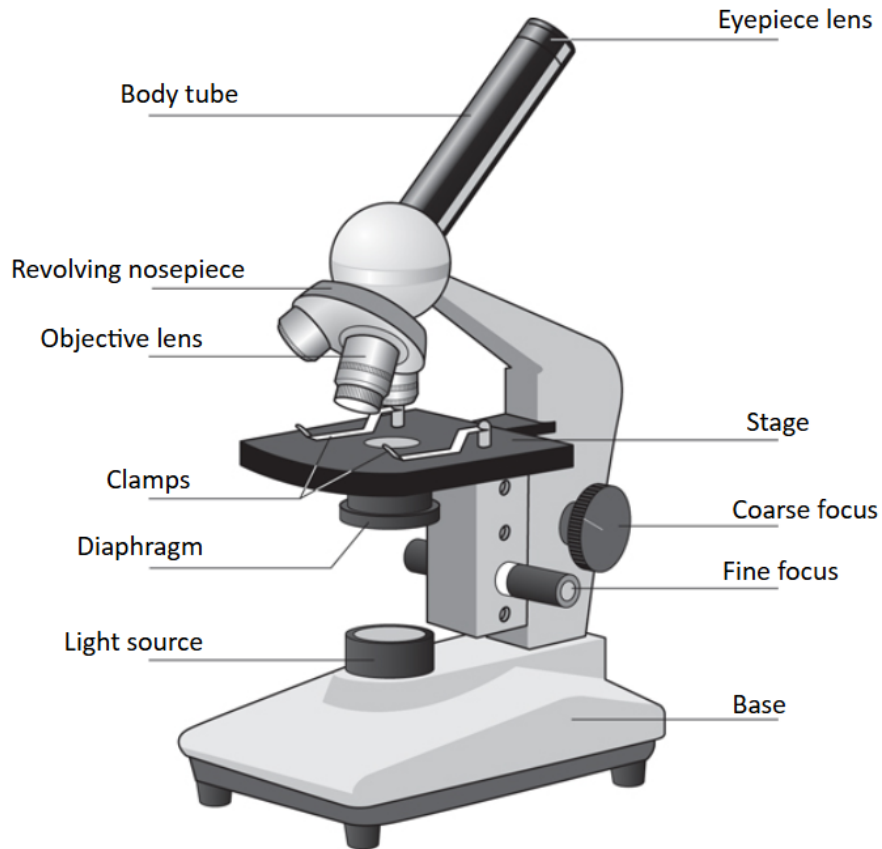
Name	Explanation
Chromatography	Different substances have different solubilities , the more soluble a substance the more it will move up the chromatography paper
Distillation	Separating a solvent from a solution through evaporation followed by condensation
Fractional distillation	Different substances have different boiling points, by heating a substance to a variety of temperature you can separate liquids by evaporating them.
Crystallisation	Separating a solvent from a solution by evaporating away the solvent
filtration	Insoluble solids will be left on top of filter paper but the solvent and soluble solids will pass through
soluble	Substance that will dissolve
insoluble	Substance that will not dissolve
solution	A mixture of a solute and solvent
solute	A solid that has been dissolved in a liquid
solvent	A liquid that had been used to dissolve a solid

Name	Explanation
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solution	A mixture of a and
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Year 7 Biology Knowledge Organiser

The Cell

Parts of a microscope



Key Terms	Function
Stage	Area where specimen is placed
Clamps	Hold the specimen still whilst it is being viewed
Light source	Illuminates the specimen
Objective lens	Magnifies the image of the specimen
Eyepiece lens	Magnifies the image of the specimen
Coarse/fine focus	Used to focus the specimen so it can be seen clearly
Revolving nosepiece	Holds 2 or more objective lenses

Magnification

$$\text{Image size} = \text{Actual size} \times \text{Magnification}$$

Using a microscope

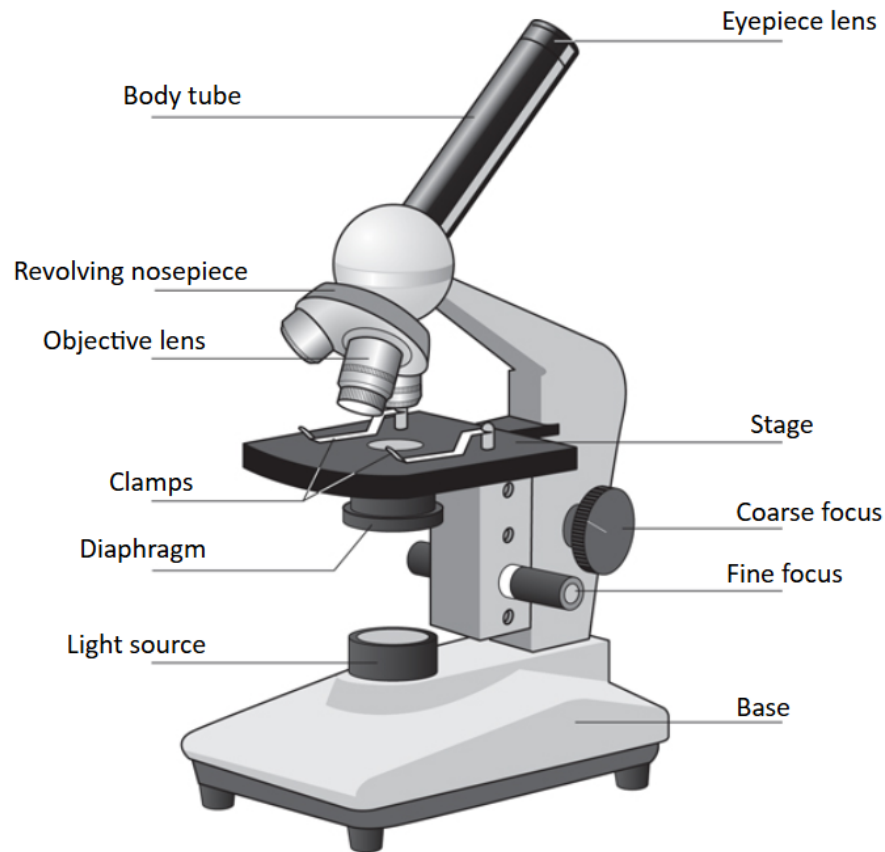
To view an object down the microscope we can use the following steps:

1. Plug in the microscope and turn on the power
2. Rotate the objectives and select the lowest power
3. Place the specimen to be viewed on the stage and clamp in place
4. Adjust the coarse focus until the specimen comes into view
5. Adjust the fine focus until the specimen becomes clear
6. To view the specimen in more detail repeat the process using a higher power objective

Year 7 Biology Knowledge Organiser

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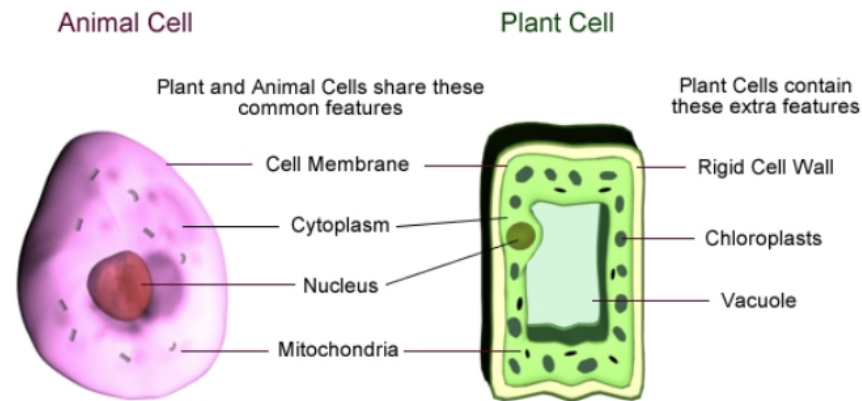
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2. Rotate the rotating nosepiece' and select the magnification lens
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4. Adjust the until the s..... comes into view
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Year 7 Biology Knowledge Organiser

The Cell

Cells

Cells are the building blocks of all living organisms



Plant and animal cells
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Preparing a microscope slide

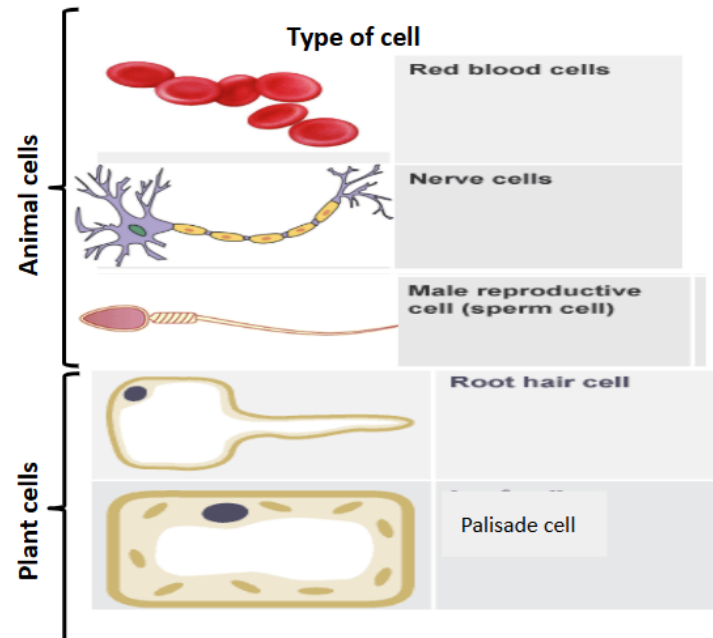
To prepare a slide to view onion cells we can use the following steps:

1. cut open an onion
2. use forceps to peel a thin layer from the inside
3. spread out the layer on a microscope slide
4. add a drop of iodine solution to the layer
5. carefully place a cover slip over the layer

Key Terms	Definition
Cell wall	Made of cellulose, which supports the cell
Cell membrane	Controls movement of substances into and out of the cell
Cytoplasm	Jelly-like substance, where chemical reactions happen
Nucleus	Contains genetic information and controls what happens inside the cell
Vacuole	Contains a liquid called cell sap, which keeps the cell firm
Mitochondria	Where most respiration reactions happen (glucose + oxygen → carbon dioxide + water)
Chloroplast	Where photosynthesis happens (carbon dioxide + water → glucose + oxygen)

Specialised cells

Specialised cells are found in multicellular organisms. Each specialised cell has a particular function within the organism.

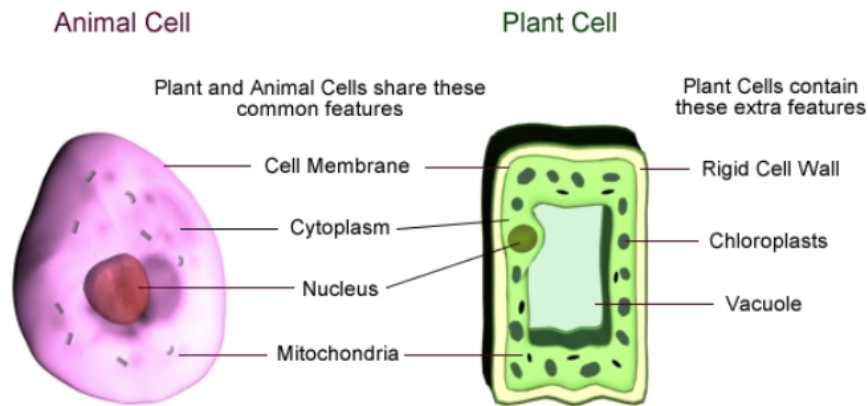


Year 7 Biology Knowledge Organiser

The Cell

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Plant and animal cells
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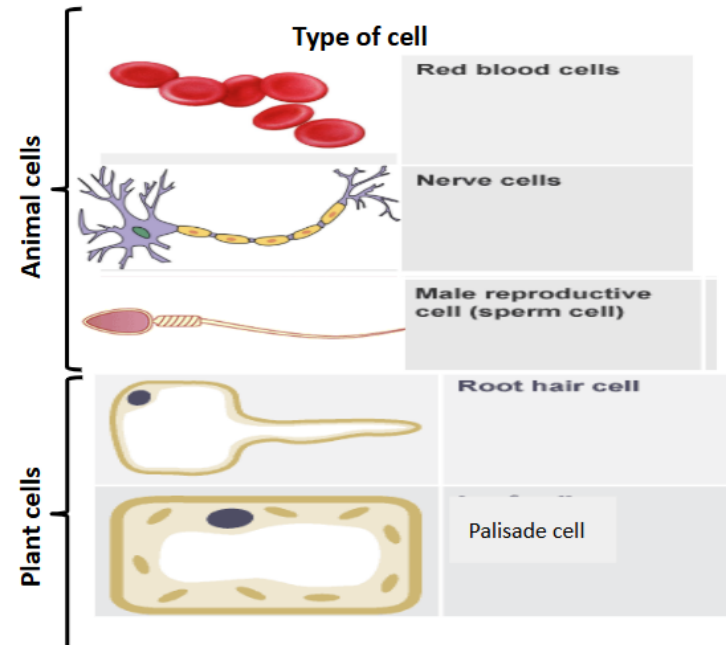
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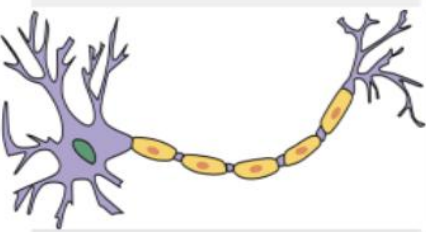


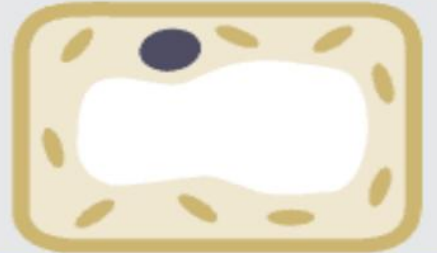
Specialised cells

Specialised cells are found in multicellular organisms. Each specialised cell has a particular function within the organism.

	Type of cell	Function	Special features
Animal cells	 Red blood cells	To carry oxygen	<ul style="list-style-type: none">• Large surface area, for oxygen to pass through• Contains haemoglobin, which joins with oxygen• Contains no nucleus
	 Nerve cells	To carry nerve impulses to different parts of the body	<ul style="list-style-type: none">• Long• Connections at each end• Can carry electrical signals
	 Male reproductive cell (sperm cell)	To reach female cell, and join with it	<ul style="list-style-type: none">• Long tail for swimming• Head for getting into the female cell
Plant cells	 Root hair cell	To absorb water and minerals	<ul style="list-style-type: none">• Large surface area
	 Palisade cell	To absorb sunlight for photosynthesis	<ul style="list-style-type: none">• Large surface area• Lots of chloroplasts

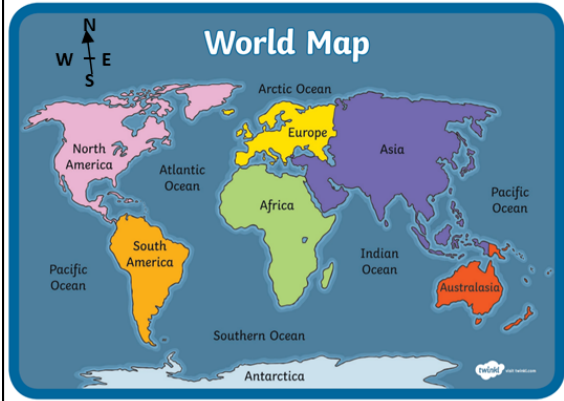
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		Palisade cell	To absorb sunlight for photosynthesis	<ul style="list-style-type: none"> • Large surface area • Lots of

Year 7 Geography Knowledge Organiser - Topic 1: Introduction to Geography

The 7 Continents and 5 Oceans of the World



Key Geographical Concepts

Social		To do with society, people or a community that come into contact with each other.
Economic		To do with jobs, business and money.
Environmental		To do with aspects of the natural world, such as the land, air, water, plants and animals.
Interactions		Direct involvement with someone or something, e.g. cause and effect.
Management/Sustainability		Controlling problems and looking after the things we have on Earth, so they are there for future generations.

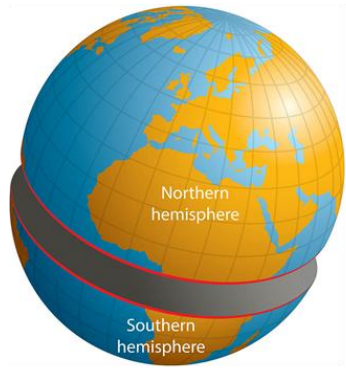
Capital Letters

Proper nouns like cities, continents, oceans, lines of latitude and countries all need capital letters on their names.

- South America ✓
- south america ✗
- Arctic Ocean ✓
- arctic ocean ✗

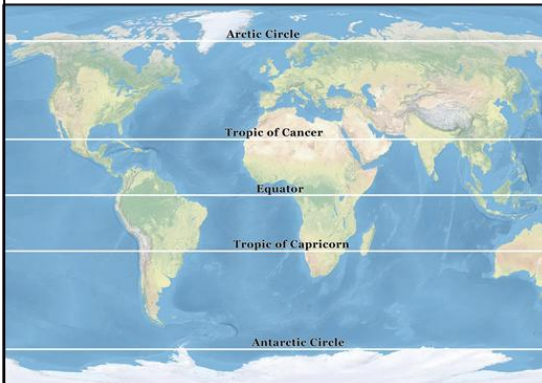
Northern and Southern Hemispheres

The north and south halves of the world.



Lines of Latitude

These go horizontally around the world. We find similar climates along lines of latitude.



Political and Physical Maps

Physical maps show landscapes, e.g. uplands, lowlands, forests etc.



Political maps show borders of countries, counties etc.



Words for Map Scales

Biggest area	Global map	Whole world
	International map	Lots of countries
	National map	One country
Smallest area	Regional map	Part of one country

Year 7 Geography Knowledge Organiser - Topic 1: Introduction to Geography

The ___ Continents and ___ Oceans of the World



Key Geographical Concepts

Social



To do with...

Economic

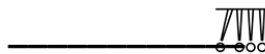


To do with...

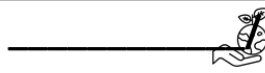
Environmental



To do with...



Direct involvement with someone or something, e.g. cause and effect.



Controlling problems and looking after the things we have on Earth, so they are there for future generations.

Capital Letters

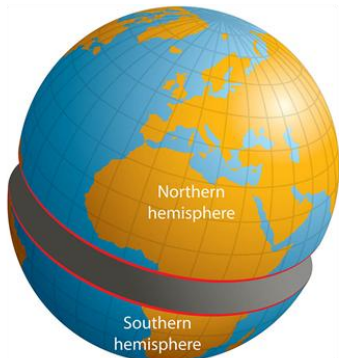
Proper nouns like cities, continents, oceans, lines of latitude and countries all need capital letters on their names.

_____ ✓
south america ✗

_____ ✓
arctic ocean ✗

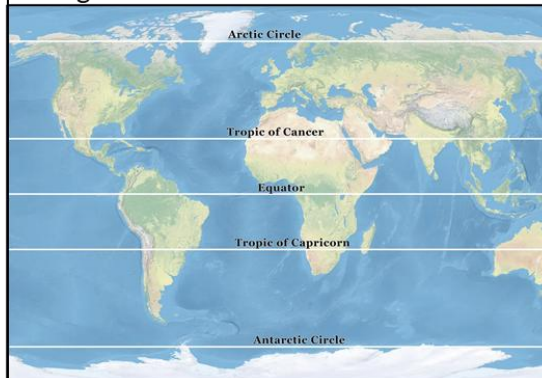
Northern and Southern Hemispheres

The north and south _____ of the world.



Lines of Latitude

These go _____ around the world. We find similar _____ along lines of latitude.



Political and Physical Maps

Physical maps show...



Political maps show...



Words for Map Scales

Biggest area _____ Whole world

International map _____

_____ One country

Smallest area **Regional map** _____

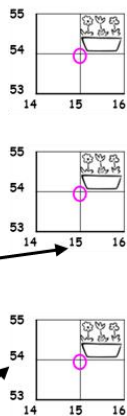
Year 7 Geography Knowledge Organiser - Topic 1: Introduction to Geography

Distribution= spread and pattern where something is located

4 Figure Grid References

These identify a **whole grid square**.

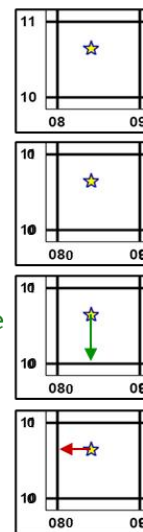
1. Identify [e.g. circle] the bottom left corner of the grid square.
2. Go along the bottom to find the line that goes through your circle.
3. That line gives you the first 2 digits: **15** _ _
4. Go up the side to find the line that goes through your circle.
5. That line gives you the final 2 digits: **1554**



6 Figure Grid References

These identify a **smaller area within a grid square** (e.g. the star), so are more specific.

1. Add [or imagine] a zero onto the end of every line number, so each line number is 3 digits. Now you have 2 number lines.
2. Go along the bottom "number line" to find the first 3 numbers, e.g. **084** _ _ _ for the star.
3. Go up the side "number line" to find the last 3 numbers, e.g. **084107** for the star.



OS Map Symbols

	Motorway
	Main road or A-road
	Car park or parking
	Railway + train station
	Information centre
	Place of worship
	Place of worship with spire, dome or minaret
	Place of worship with a tower
	Coniferous forest
	Public footpath
	School
	Picnic site
	Camping and caravan site
	Youth hostel
	Golf course

Height and Relief on OS Maps

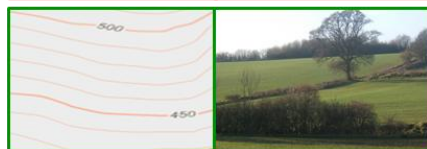
Relief = the height and shape of the land.

Contour lines are orange/brown lines which show the height above or below sea level.

Close together contour lines show **steeper relief**.



Spread out contour lines show **flatter relief**.



Measuring Distance on Maps

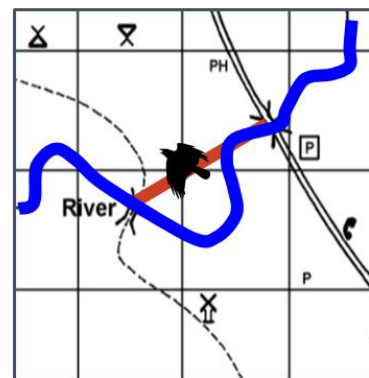
Each grid line is 1km apart.

As the Crow Flies

Measure the simple straight line distance from point A to B.

Along Transport Links (e.g. roads, footpaths, and rivers)

Measure the actual curved line distance you would need to travel between points A and B.



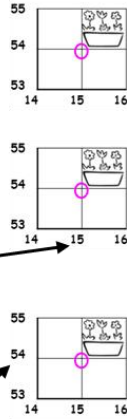
Year 7 Geography Knowledge Organiser - Topic 1: Introduction to Geography

distribution= spread and pattern where something is located

4 Figure Grid References

These identify _____.

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2. Go along _____ to find the line that goes through your circle.
3. That line gives you the first 2 digits: _ _ _ _
4. Go up _____ to find the line that goes through your circle.
5. That line gives you the final 2 digits: _ _ _ _



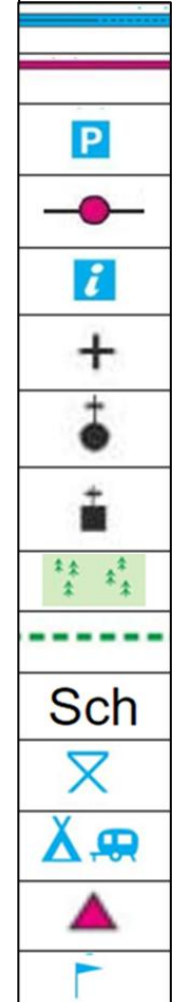
6 Figure Grid References

These identify _____
(e.g. the star), so are more specific.

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4. Go up the side "number line" to find the last 3 numbers, e.g: _ _ _ _ for the star.



OS Map Symbols



Height and Relief on OS Maps

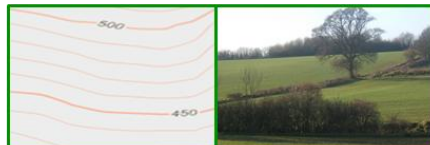
Relief =

_____ are orange/brown lines which show the height above or below sea level.

Close together contour lines show...



Spread out contour lines show...



Measuring Distance on Maps

Each grid line is _____ apart.

As the Crow Flies



Measure...




Along Transport Links (e.g. roads, footpaths, and rivers)

Measure...



Year 7 Geography Knowledge Organiser - Topic 2: Development

Development = countries and areas becoming healthy and wealthy.  

Standard of living = how good life is in an area for people living there.   


- **HIC** = Higher income country (more developed).
- **NEE** = Newly emerging economy (developing quickly).
- **LIC** = Lower income country (less developed).

Development Indicators	
GNI	A country's total income (all the money earned).
GNI per capita	The country's total income divided by the number of people living there.
Life Expectancy	How long the average person lives for.
Birth rate	The number of births per year per 1000 people.
Death rate	The number of deaths per year per 1000 people.
Literacy rate	The percentage (%) of adults in the country that can read and write.

Danger of a Single Story

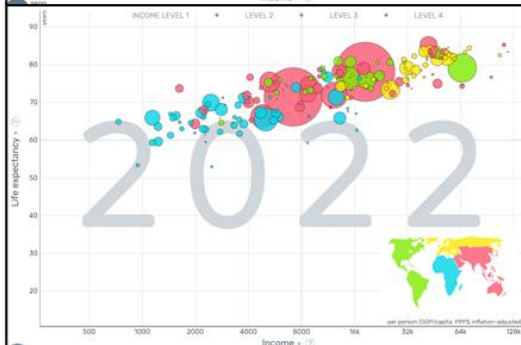
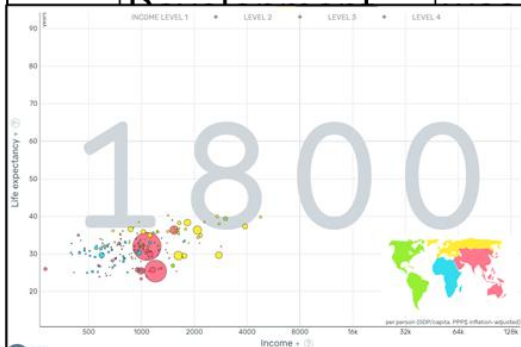
Fact = a thing that is known or proved to be true.

Opinion = a view or judgement about something, not necessarily based on fact or knowledge.

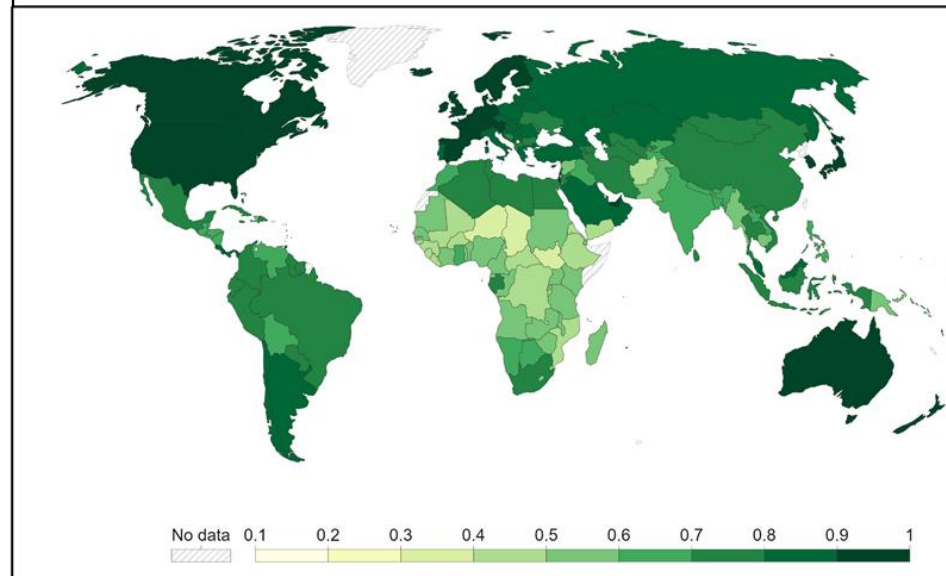
Misconception = a view or opinion that is incorrect because based on faulty thinking or understanding. 

- To avoid misconceptions:
1. Look at a **range of sources**.
 2. Look at **up to date sources**.

All Countries Have Developed



HDI (Human Development Index) = A composite (joint) measure of health (*life expectancy*), income (*GNI per capita*), and education (*average years of schooling*).
Human Development Index (HDI) Map in 2021
 Development is uneven around the world. Darker shaded areas have a HDI of nearer 1, showing they are more developed.



Year 7 Geography Knowledge Organiser - Topic 2: Development

Development =



_____ = how good life is in an area for people living there.

- **HIC** = (_____ developed).
- **NEE** = (_____ quickly).
- **LIC** = (_____ developed).

Development Indicators

GNI	
GNI per _____	The country's total income divided by the number of people living there.
	How long the average person lives for.
Birth rate	The number of...
Death rate	The number of...
	The percentage (%) of adults in the country that can read and write.
HDI (Human Development Index)	A composite (joint) measure of...

Danger of a Single Story

_____ = a thing that is known or proved to be true.

_____ = a view or judgement about something, not necessarily based on fact or knowledge.

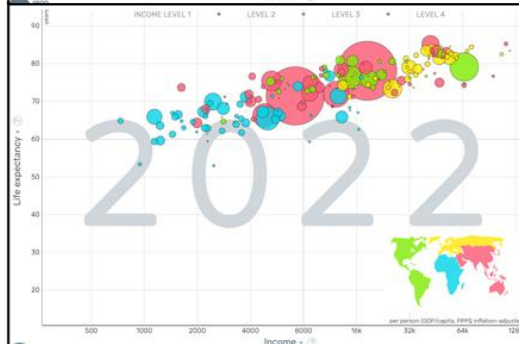
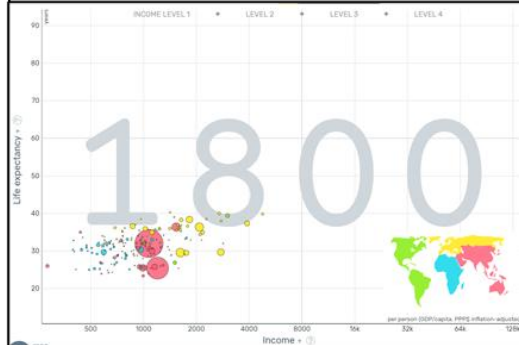
_____ = a view or opinion that is incorrect because based on faulty thinking or understanding.



To avoid misconceptions:

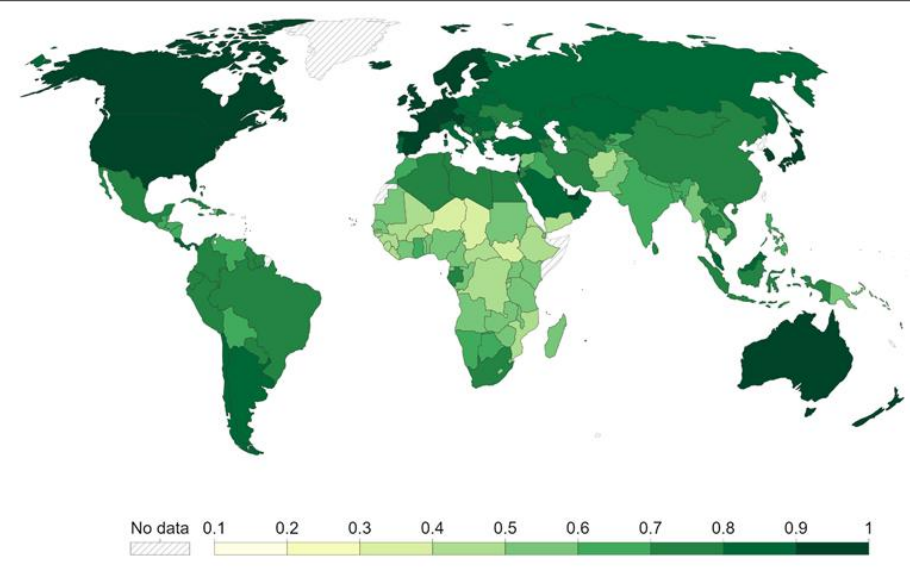
1. Look at...
2. Look at...

_____ Countries Have Developed



Human Development Index (HDI) Map in 2021

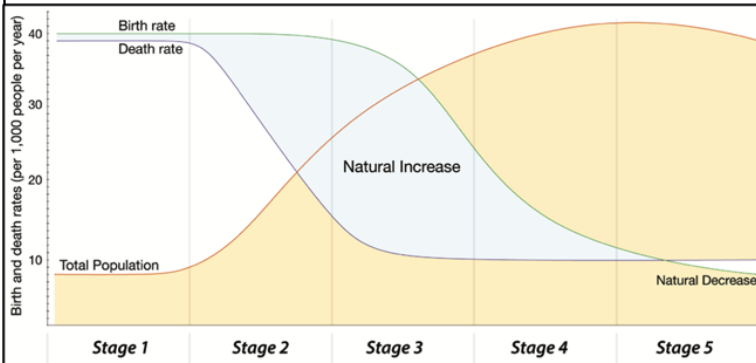
Development is _____ around the world. Darker shaded areas have a HDI of nearer _____, showing _____.



Year 7 Geography Knowledge Organiser - Topic 2: Development

The Demographic Transition Model (DTM)

This line graph shows how birth rate, death rate, and total population change as a country develops.



Examples of Uneven Development

Within A Continent: North America



US (HIC) vs Guatemala (NEE) both in North America.



Within A Country: The US

Hawaii (HDI 0.945) vs Louisiana (HDI 0.893) both states in the United States (an HIC).



Within A City: New Orleans, US



Life expectancy ranges from 71 years to 82 years depending on which neighborhood people live in.

The Aral Sea, Kazakhstan

Overuse of water to irrigate (water) cotton crops caused the Aral Sea to shrink by over 90%, leaving the area arid.



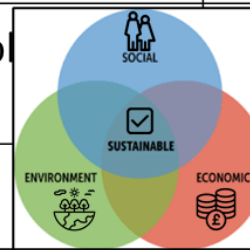
Causes of Uneven Development

Barriers 	Fuels 
Few natural resources.	Lots of natural resources.
Extreme climates (e.g. very hot or very cold, very rainy or very arid).	Moderate climates (not extreme) good for growing plants.
Higher chance of natural disasters.	Lower change of natural disasters.

War and Conflicts

Stalled development is improving health & wealth in a way that is

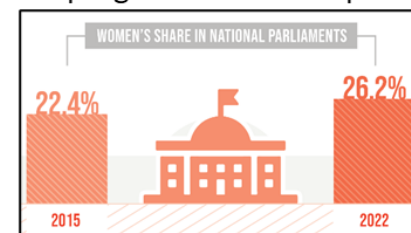
socially, economically, and environmentally good.



Peace and Gender Inequality as a Barrier to Development

as a barrier to achieving sustainable development goals to achieve gender equality and empower all women and girls.

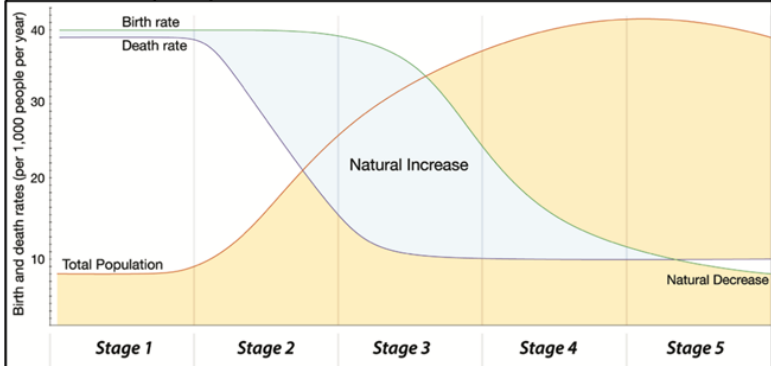
Women and girls represent half of the world's population and therefore also half of its potential; however, today gender inequality persists everywhere as barrier to social progress and development.





Year 7 Geography Knowledge Organiser - Topic 2: Development

The _____ (DTM)



This line graph shows how _____, _____, and _____ change as a





Causes of Uneven Development

Barriers 	Fuels 
Few natural resources.	
	Moderate climates (not extreme) good for growing plants.
Higher chance of natural disasters.	
	Peace
Landlocked and/or upland location.	

Examples of Uneven Development

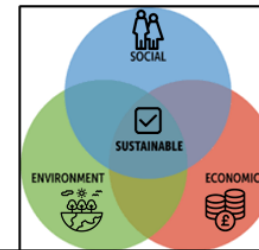
Within A Continent: North America  
_____ vs _____ both in North America.

Within A Country: The US 
_____ vs _____ both states in the United States (an HIC).

Within A City: _____, **US** 
Life expectancy ranges from ___ years to ___ years depending on which neighborhood people live in.

Sustainable Development

Sustainable development is...



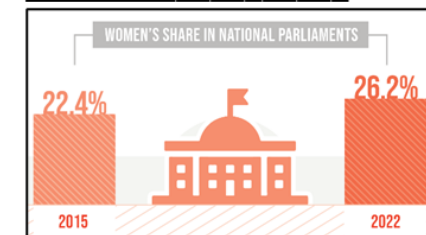
SUSTAINABLE DEVELOPMENT GOALS



Gender Inequality as a Barrier to Development

UN Sustainable Development Goal #5 is _____

Women and girls represent _____ of the world's population and therefore also half of its _____; however, today gender inequality persists _____ as barrier to _____.



The Aral Sea, Kazakhstan

Overuse of _____ to irrigate (water) cotton crops caused...



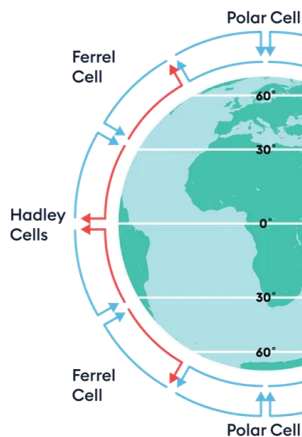
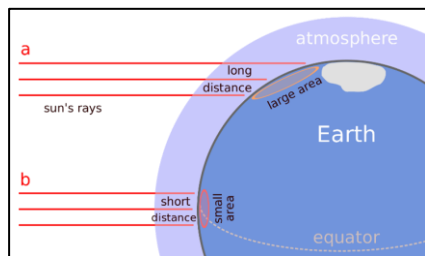
Year 7 Geography Knowledge Organiser - Topic 3: Weather and Climate

Weather and Climate

- **Weather** = the short term changes in the atmosphere.
- **Climate** = the long term average weather.

Global Atmospheric Circulation

- The **Poles** receive the **least direct solar radiation**, cooling the air there and causing **polar air to sink**.
- The **Equator** receives the **most direct solar radiation**, warming the air there and causing **equatorial air to rise**.



This results in **3 cells** of moving air in each hemisphere.

Seasons

The Earth spins on a **tilted axis**. As a result, the UK gets 4 seasons throughout the year:

1. **Spring** - Warmer days, but cold nights.
2. **Summer** - Hottest & drier, but can see heavy rain.
3. **Autumn** - Shorter days and weather turns stormier.
4. **Winter** - Coldest, wettest and windiest. Some snow.

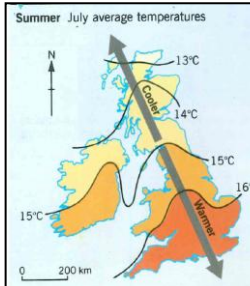
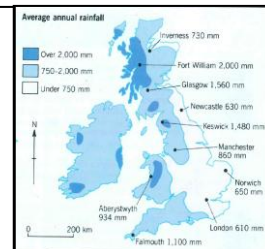
Summer solstice = Longest daylight (21/22 June in N.Hemisphere)

Winter solstice = Shortest daylight (21/22 December N.Hemisphere)

Precipitation Across the UK

The **Northwest and West** receives the **most precipitation** due to the upland areas there.

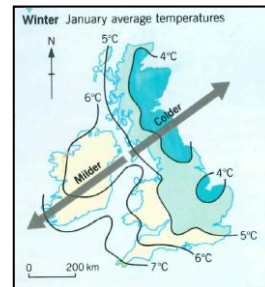
The **Southeast** of the UK receives the **least precipitation** as this area is mostly lowlands.



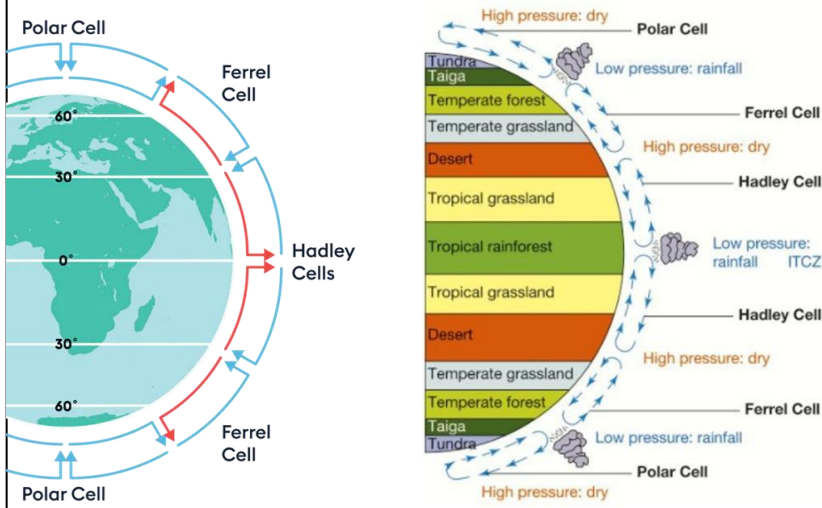
Temperature Across the UK

In the summer, the **South** of the UK is the **warmest**, as it receives **more direct solar radiation**.

In the winter, the **Southwest** of the UK is **milder** (not as cold) as the **North Atlantic drift** (a warm ocean current) keeps the coastline warm.



Similar Climates at Similar Latitudes



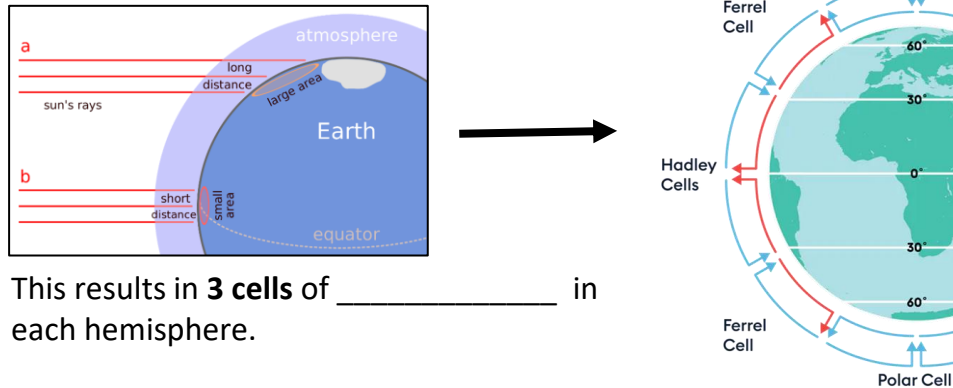
Year 7 Geography Knowledge Organiser - Topic 3: Weather and Climate

Weather and Climate

- **Weather** = _____
- **Climate** = _____

Global Atmospheric Circulation

- The _____ receive the **least direct solar radiation**, cooling the air there and causing **polar air to _____**.
- The _____ receives the **most direct solar radiation**, warming the air there and causing **equatorial air to _____**.



Seasons

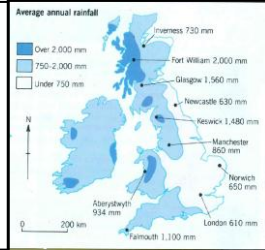
The Earth spins on a **tilted _____**. As a result, the UK gets 4 seasons throughout the year:

1. **Spring** - _____.
2. **Summer** - _____.
3. **Autumn** - _____.
4. **Winter** - _____.

_____ = Longest daylight (21/22 June in N.Hemisphere)
 _____ = Shortest daylight (21/22 December N Hemisphere)

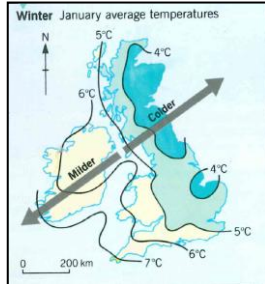
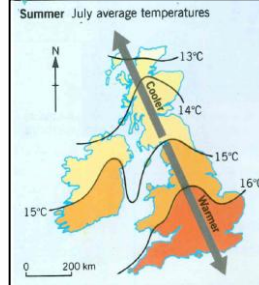
Precipitation Across the UK

The _____ and _____ receive the **most precipitation** due to the _____ there.
 The **Southeast** of the UK receives the _____
precipitation as this area is mostly _____



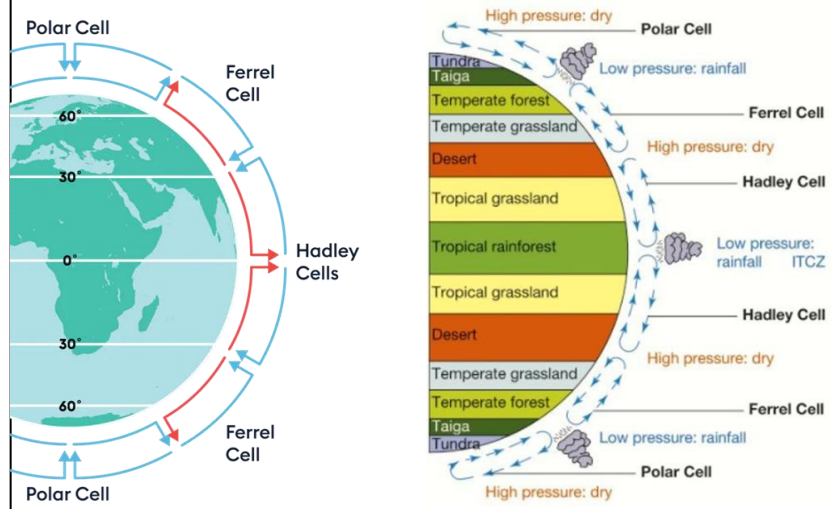
Temperature Across the UK

In the summer, the _____ of the UK is the **warmest**, as it receives **more _____**.



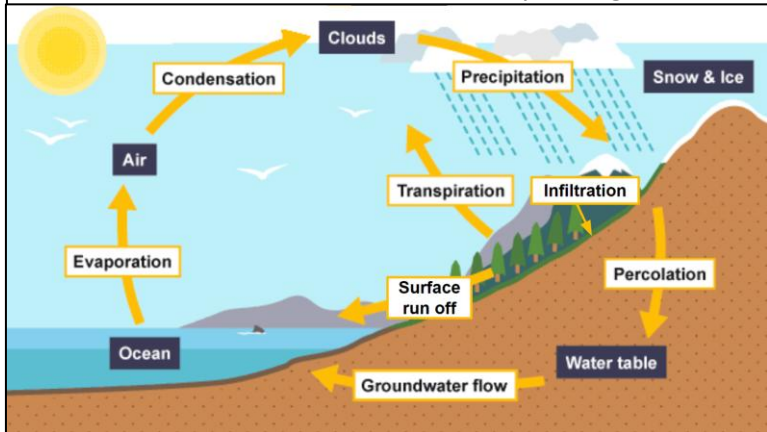
In the winter, the **Southwest** of the UK is _____ (not as cold) as the _____ (a warm ocean current) keeps the coastline warm.

Similar _____ at Similar _____



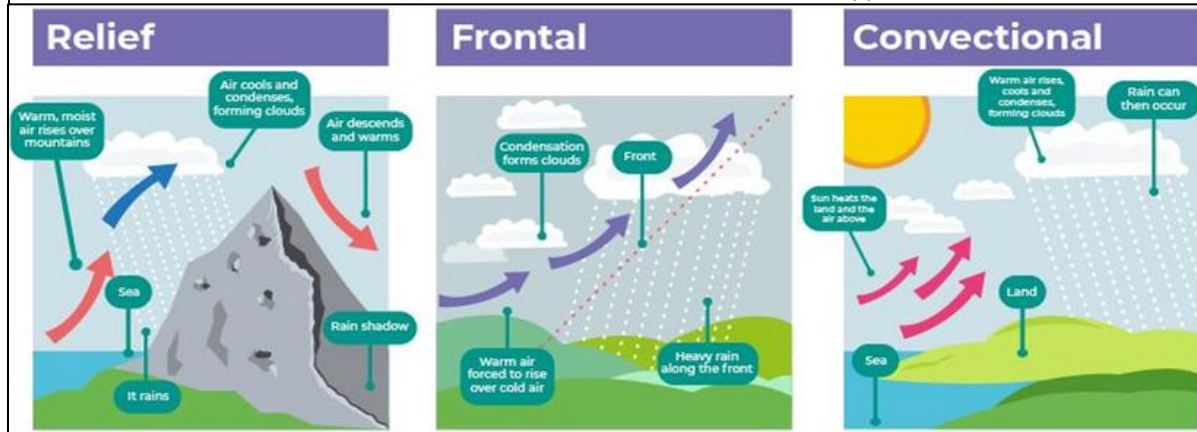
The Hydrological Cycle

The amount of water in the world is fixed. Water is **transferred** between **stores** in the hydrological



Three Types of Precipitation

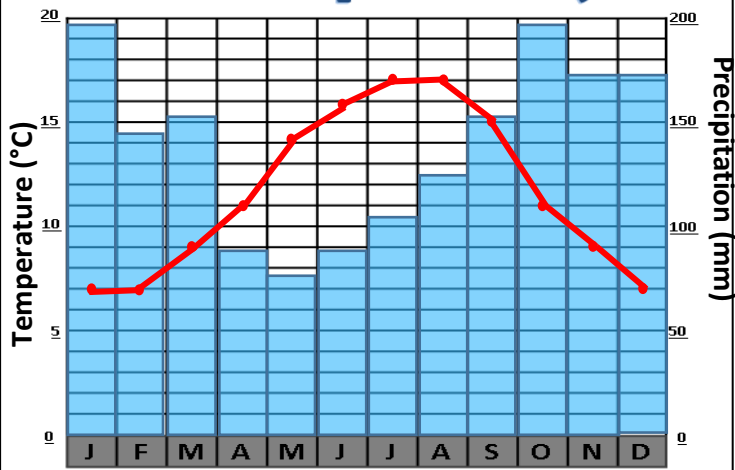
Condensation happens to create clouds **when warm, moist air is forced to rise**. There are three reasons the air will rise, so there are three types of rainfall.



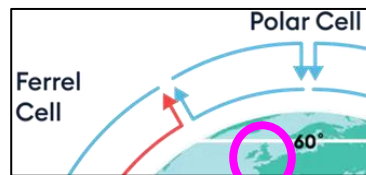
Climate Graphs

The **bar graph** shows **precipitation**, measured in mm. The **line graph** shows **temperature**, measured in °C.

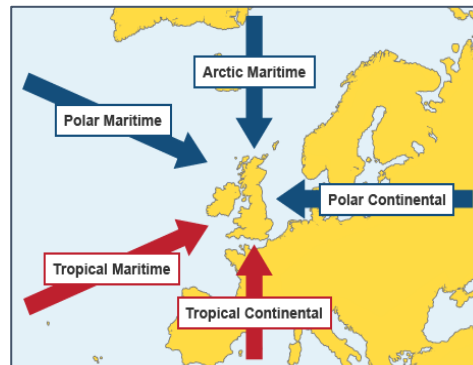
Climate Graph: Oban, UK



Air Masses and Weather in the UK



The UK is an island nation, surrounded by water and is located near the border of the polar cell and the ferrel cell. As a result, we get **different weather conditions depending on the wind direction** (where our weather is coming from).

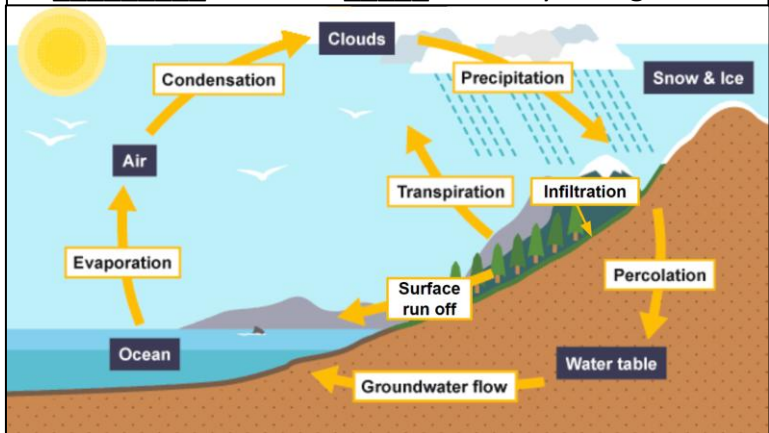


- Maritime** = damp air → precipitation
- Continental** = dry air → dry weather
- Tropical** = warm air → warmer/milder weather
- Polar/Arctic** = cold air → colder/cooler weather

Year 7 Geography Knowledge Organiser - Topic 3: Weather and Climate

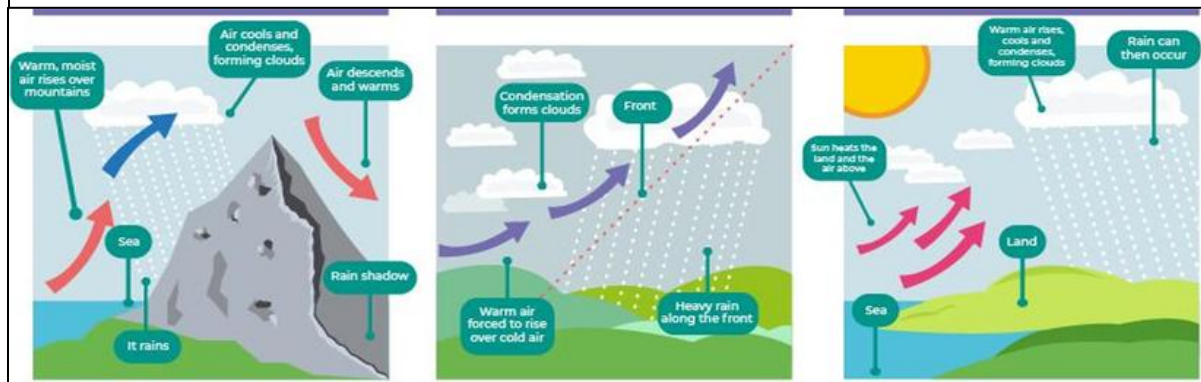
The Hydrological Cycle

The amount of water in the world _____ . Water is _____ between _____ in the hydrological



Three Types of Precipitation

_____ happens to create clouds **when warm, moist air is forced to _____**. There are three reasons the air will rise, so there are three types of rainfall.

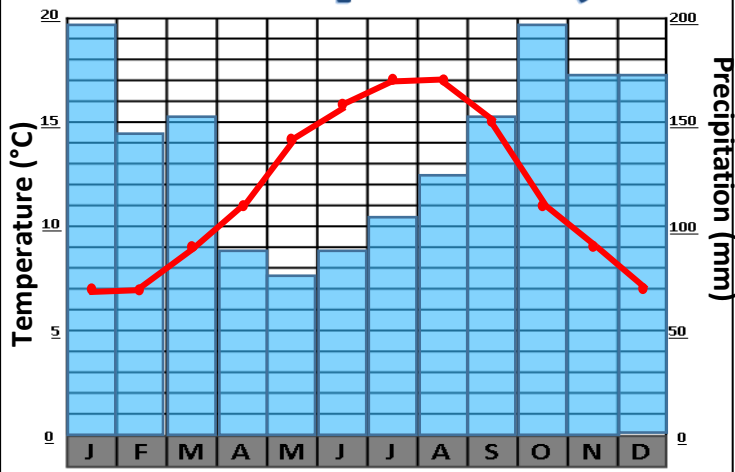


Climate Graphs

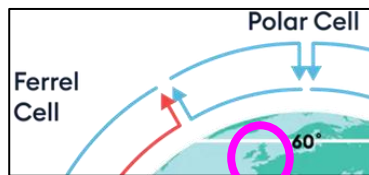
The _____ shows **precipitation**, measured in _____

The _____ shows **temperature**, measured in _____

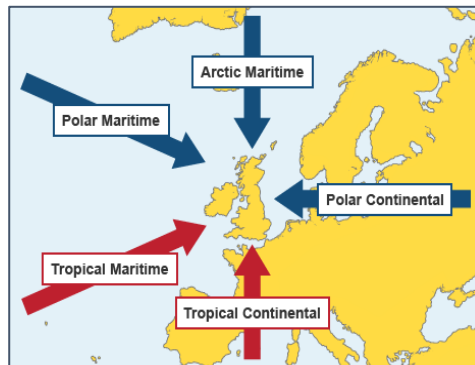
Climate Graph: Oban, UK



Air Masses and Weather in the UK



The UK is an island nation, surrounded by _____ and is located near the border of the _____ cell and the _____ cell. As a result, we get **different weather conditions depending on the _____ direction** (where our weather is coming from).



Maritime = _____

Continental = _____

Tropical = _____

Polar/Arctic = _____

Year 7 Geography Knowledge Organiser - Topic 3: Weather and Climate

Microclimate = the specific climate of a local place.












Microclimate Factor....	Meaning	How will it affect the local climate?
Aspect	The direction a place faces.	Places which face south are warmer than places which face north.
Buildings	Whether there are buildings in the local area and how tall they are.	Buildings absorb heat so they can make nearby places warmer. They can also speed up the wind.
Surface colour	Whether the surface is a dark colour (like tarmac) or a light colour (like grass).	Darker colour surfaces absorb more heat so tend to be warmer. Lighter colours reflect heat so tend to be cooler.
Shelter	Whether a place has protection from the wind.	Sheltered places have lower wind speeds and tend to be slightly warmer than unsheltered spots.
Physical features	Whether there are natural features such as woods, lakes or hills nearby.	Wooded areas tend to be cooler and less windy, areas near lakes tend to be cooler and hilltop locations are windier and colder than valleys.

Measuring Weather

Equipment	What does it do?
Anemometer	Measures the speed of wind
Rain Gauge	Measures precipitation
Wind Vane	Measures wind direction
Barometer	Measures air pressure
Thermometer	Measures the temperature

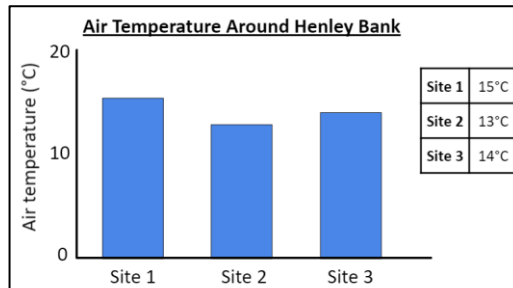
Estimating Wind Speed

Beaufort Scale

Beaufort number	Wind Speed (mph)	Seaman's term		Effects on Land
0	Under 1	Calm		Calm; smoke rises vertically.
1	1-3	Light Air		Smoke drift indicates wind direction; vanes do not move.
2	4-7	Light Breeze		Wind felt on face; leaves rustle; vanes begin to move.
3	8-12	Gentle Breeze		Leaves, small twigs in constant motion; light flags extended.
4	13-18	Moderate Breeze		Dust, leaves and loose paper raised up; small branches move.
5	19-24	Fresh Breeze		Small trees begin to sway.
6	25-31	Strong Breeze		Large branches of trees in motion; whistling heard in wires.
7	32-38	Moderate Gale		Whole trees in motion; resistance felt in walking against the wind.
8	39-46	Fresh Gale		Twigs and small branches broken off trees.
9	47-54	Strong Gale		Slight structural damage occurs; slate blown from roofs.
10	55-63	Whole Gale		Seldom experienced on land; trees broken; structural damage occurs.
11	64-72	Storm		Very rarely experienced on land; usually with widespread damage.
12	73 or higher	Hurricane Force		Violence and destruction.

Microclimates Fieldwork

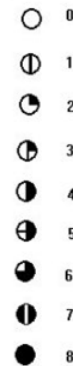
We used our knowledge of microclimates to predict which areas of Henley Bank would be warmer to create our **hypothesis**. We collected **primary data** and presented our data in a **bar graph**, which allows us to **conclude** that site 1 was the warmest.



Oktas

We can estimate cloud cover in oktas (eighths of the sky).

(in eighths of sky)



Year 7 Geography Knowledge Organiser - Topic 3: Weather and Climate













Microclimate = _____

Microclimate Factor....	Meaning	How will it affect the local climate?
	The direction a place faces.	
	Whether there are buildings in the local area and how tall they are.	
	Whether the surface is a dark colour (like tarmac) or a light colour (like grass).	
	Whether a place has protection from the wind.	
	Whether there are natural features such as woods, lakes or hills nearby.	

Measuring Weather

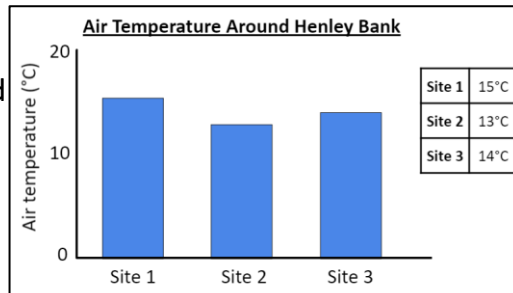
Equipment	What does it do?
Anemometer	
Rain Gauge	
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Barometer	
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Estimating Wind Speed

Beaufort number	Wind Speed (mph)	Seaman's term		Effects on Land
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12	73 or higher	Hurricane Force		Violence and destruction.

Microclimates Fieldwork

We used our knowledge of microclimates to predict which areas of Henley Bank would be warmer to create our _____. We collected _____ and presented our data in a _____, which allows us to _____ that site _ was the warmest.



Oktas

We can estimate cloud cover in oktas (_____ of the sky).

(in eighths of sky)

- 0
- ◐ 1
- ◑ 2
- ◒ 3
- ◓ 4
- ◔ 5
- ◕ 6
- ◖ 7
- ◗ 8

Year 7 Geography Knowledge Organiser - Topic 4: Urban Change

Urban and Rural

Urban = A built up area (town or city) where there are many buildings and services close together. Eg Gloucester, Cheltenham, London. Densely populated (lots of people in an area).



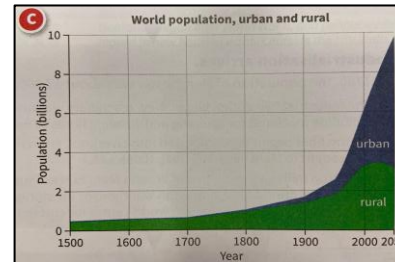
Rural = An area of countryside that is not built up, so less buildings and services in the area. Eg the area surrounding Brockworth, The Cotswolds, The Malvern Hills. Sparsely populated (not many people living in an area).



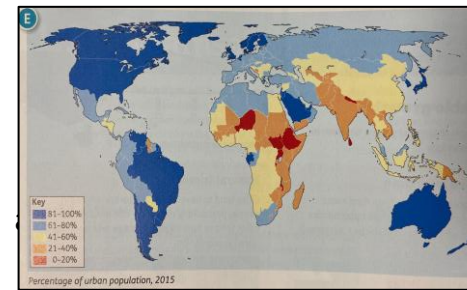
How Urban Areas Have Grown Over Time

1. About 10000 years ago, there were no towns and cities.
2. Our ancestors roamed the land hunting and gathering.
3. Our ancestors began to plant seeds and rear animals, this was the beginning of farming.
4. Farming meant people could settle in one place, this was the beginning of **settlements** (a place where people live).
5. As farming developed, people had extra to sell and markets began. **Villages** started to grow around the markets.
6. Over time, villages grew into **towns**, with more services.
7. The Industrial Revolution began in the 18th century. Factories set up in towns and people moved from rural areas for higher paid jobs in the factories. Towns grew and some grew into **cities**.
8. Industry spread to other European countries and the USA, their urban areas (towns and cities) grew.
9. Today, urban areas are growing fastest in NEEs and LICs, with people moving in from rural areas to the towns/cities.

Distribution of Urban Areas Globally



Across the world, more people used to live in rural areas, but as time has gone on, more people are moving to and living in urban areas. This process is called **urbanisation**.



In General:

HICs have higher proportions of people living in urban areas.

NEEs have roughly equal proportions of people living in urban and rural

LICs have higher proportions of people living in rural areas.

Urban Land Use Model (The Burgess Model)

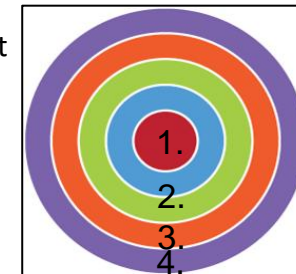
Using the city of Chicago in 1923, Mr Burgess made this simplified model showing that there were different parts/zones to an urban area and that they developed over time.

1. The Central Business District

Inner area, no regular street pattern, high density of buildings. Now the centre for shops and offices.

2. The Inner City

Rectangular grids of streets. Often high density, terraced housing. Built near to the factories for workers.



3. **The Inner Suburbs**
Residential housing estates, often filling gaps between main roads, widely spaced. Often semi detached housing.

4. **The Outer Suburbs**
Modern housing estates, curved roads, cul de sacs, widely spaced. Often detached housing. Outer edge of urban area and beginning of rural area.

Year 7 Geography Knowledge Organiser - Topic 4: Urban Change

Urban and Rural

Urban = _____

Eg _____

_____ populated (lots of people in an area).



Rural = _____

Eg _____

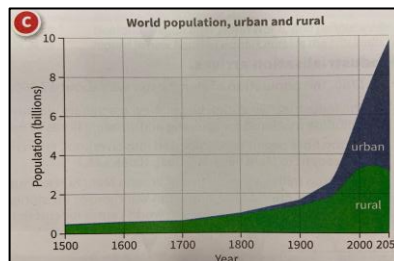
_____ populated (not many people living in an area).



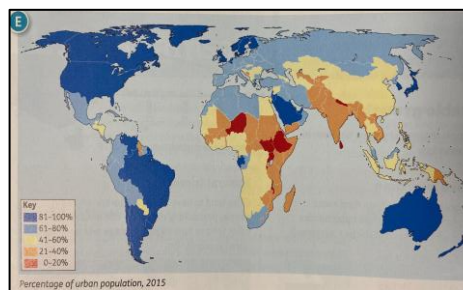
How Urban Areas Have Grown Over Time

1. About 10000 years ago _____.
2. Our ancestors roamed the land hunting and gathering.
3. Our ancestors began to _____ and _____, this was the beginning of farming.
4. Farming meant people could _____, this was the beginning of **settlements** (a place where people live).
5. As farming developed, people had _____ and markets began. _____ started to grow around the markets.
6. Over time, villages grew into _____, with more services.
7. The Industrial Revolution began in the _____ century. Factories set up in towns and people moved from rural areas for _____ jobs in the factories. Towns grew and some grew into _____.
8. Industry spread to _____, their urban areas (towns and cities) grew.
9. Today, urban areas are growing fastest in _____ and _____, with people moving in from rural areas to the towns/cities.

Distribution of Urban Areas Globally



Across the world, _____ people used to live in rural areas, but as time has gone on, _____ people are moving to and living in urban areas. This process is called _____.



In General:

HICs have higher proportions of people living in _____ areas.

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LICs have higher proportions of people living in _____ areas.

Urban Land Use Model (The _____ Model)

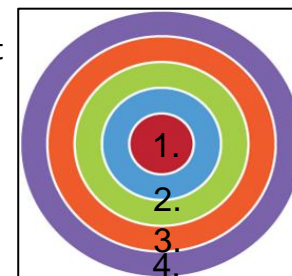
Using the city of Chicago in 1923, Mr Burgess made this simplified model showing that there were different parts/zones to an urban area and that they developed over time.

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Rectangular grids of streets. Often high density, terraced housing. Built near to the factories for workers.



3.

Residential housing estates, often filling gaps between main roads, widely spaced. Often semi detached housing.

4.

Modern housing estates, curved roads, cul de sacs, widely spaced. Often detached housing. Outer edge of urban area and beginning of rural area.

Causes of Urbanisation

The two main causes of urbanisation are **Rural to Urban Migration (Push and Pull)** and **Natural Increase**. This is usually done by the working population who have higher fertility, so help naturally increase the population in the urban areas.

Key Terms

Birth Rate: The amounts of babies born, per year, per 1000

Death Rate: The amount of people dying, per year, per 1000

Natural Increase: When birth rate is higher than death rate which increases the population.

Urbanisation: The increase in the proportion of people living in towns and cities.

Rural-Urban Migration: When people permanently move from rural areas to urban areas.

Push Factor: A reason why somebody would want to leave the rural area. Eg: Lack of work, natural disasters, poor housing.

Pull Factor: A reason why somebody would want to move to an urban area. Eg: More jobs, better education and

healthcare

Causes and Impacts of Urbanisation in an NEE: China

Location: Eastern Asia, borders Pacific Ocean to the East.

Background: Largest population in world (1.4 billion), one of largest economies in world, urbanised and developed East.

Causes: In 1960, only 16% of China's population lived in urban areas. In 2017, this had risen to 58%. China has urbanised rapidly due to factories setting up on the South East coast which has led to high levels of rural to urban migration and natural increase.



Impacts: Higher wages, higher standards of living, better quality of life, overcrowding, air pollution, traffic congestion.

How the rural area is affected: Brain drain, not enough workers, not enough to look after the elderly and young, not enough food grown, levels of poverty will increase.

Impacts of Urbanisation

	Benefit	Cost	Social	Economic	Environmental		
Entertainment facilities such as museums, cinemas, concerts and clubs	Social	Lots of jobs available	Economic	Buildings everywhere reduces green spaces and can destroy animal habitats	Environmental	Overcrowding	Social
Services such as dentists and hospitals	Social	Lots of shops	Social	Water Pollution	Environmental	Waste disposal	Environmental
Restaurants of varying cuisines serving different types of food from around the world	Social	Higher paying jobs	Economic	Lack of community spirit as people do not know their neighbours which can lead to segregation	Social	Shortage of housing	Social
High performing colleges, sixth forms and universities	Social	Competition for jobs	Economic	Air Pollution	Environmental	Traffic Congestion	Environmental
Effective public transport	Social	Noise Pollution	Social	More expensive than living in rural areas	Economic	Crime, vandalism and graffiti	Social

Squatter Settlements

What: An area of poor quality housing with no or limited services such as water supply, sewerage and electricity.

Where: Inner City areas. Mostly found in LIC urban areas and in some NEE urban areas.

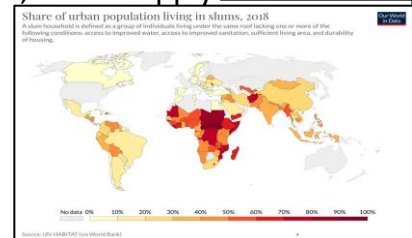
Other names given: Slums, shanty towns, favelas, bidonvilles

Reasons why they are there: Unregulated land, no choice, lack of money, better than rural areas they have come from.

Opportunities: More jobs, higher wages, shelter, water supply more food supply, better standard of living.

Challenges: Overcrowding, pollution, disease, jobs with long hours and low pay, unsanitary conditions, open sewers, unsafe

Often seen as negative, but could be a better life than they had previously



Causes of Urbanisation

The two main causes of urbanisation are _____ and _____. This is usually done by the working population who have higher fertility, so help naturally increase the population in the urban areas.

Key Terms

_____ = The amounts of babies born, per year, per 1000

_____ = The amount of people dying, per year, per 1000

_____ = When birth rate is higher than death rate which increases the population.

_____ = The increase in the proportion of people living in towns and cities.

_____ = When people permanently move from rural areas to urban areas.

_____ = A reason why somebody would want to leave the rural area. Eg: Lack of work, natural disasters, poor housing.

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Impacts of Urbanisation

	Benefits	Costs
Social		
Economic		
Environmental		

Causes and Impacts of Urbanisation in an NEE: China

Location: _____.

Background: Largest population in world (_____), one of largest economies in world, _____ East.

Causes: In 1960, only 16% of China's population lived in urban areas. In 2017, this had risen to 58%. China has urbanised rapidly due to factories setting up on the South East coast which has led to high levels of _____ and _____.



Impacts: _____

How the rural area is affected: _____

Squatter Settlements

What: _____

Where: _____

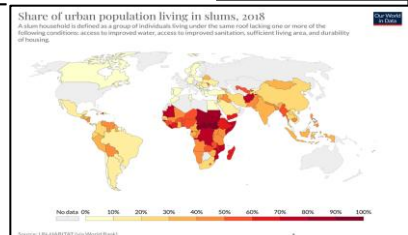
Other names given: _____

Reasons why they are there: _____

Opportunities: _____

Challenges: _____

*Often seen as negative, but _____



Urban Areas in the UK

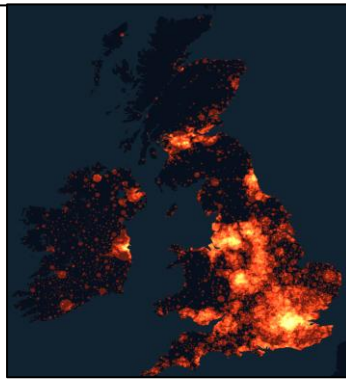
Densely Populated Areas in the UK:

- South East UK
- England
- By the coast

Sparsely Populated Areas in the UK:

- North and West UK
- Scotland and Wales
- Mountainous land

Densely populated areas tend to be on flatter land, near the coast, near a river, with a good climate and a closer proximity to mainland Europe.



Counter-urbanisation

Process of people moving out of urban areas, into rural areas. This has been occurring in many HICs since the mid 1900s.

Causes: (These can be push or pull factors)

- Increased car ownership, people can commute
- Increased working from home
- Unpleasant urban areas (pollution, congestion, crime)
- Out of town shopping centres and online shopping

Impacts:

Positives	Negatives
<ul style="list-style-type: none"> - Saves local rural services - Increases rural population - Creates greater social mix - Old properties can be converted and modernised - Industrial units set up which creates more jobs 	<ul style="list-style-type: none"> - Loss of community spirit - Conflict with new residents - House prices rise means young locals can't buy - Building on greenfield sites - Commuters create more pollution and congestion

Case Study: Urban Change in Manchester

Location: North West England, East of Liverpool and connected by rivers.

Industrial Growth:

- Settlement develops in a good location on river Medlock
- Industrialisation, world's first industrial city factories/mills/warehouses
- World centre of cotton/textiles trade with good transport/trade links
- Young working population who want higher levels of wealth
- Urbanisation (rural to urban migration and natural increase)
- Urban Sprawl, city grew outwards as more houses and services built

Deindustrialisation:

- Industry declined due to outdated machinery and competition from other countries who could make products cheaper or more efficiently
- Manchester's mills and factories closed, deindustrialisation
- Population fell as people moved away. Deprivation became a problem

Urban Regeneration:

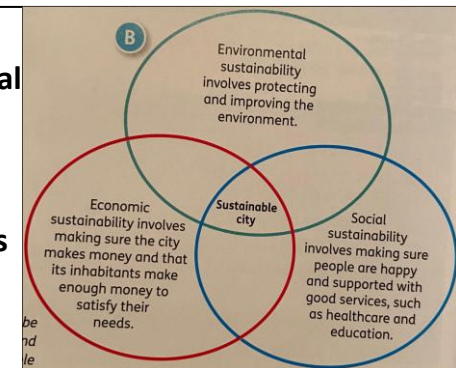
- Began in 1980s and is still happening now
- Aims to bring jobs (economy) and make it a good place to live (social)
- Media City offers more jobs in media and science, improved transport systems (trams, buses and light rail connect to rest of Greater Manchester), old warehouses made into housing, promoting culture.

Future Urban Change: Sustainable Cities

- A **sustainable city** is one that has the **social economic and environmental** needs in balance and must be **long lasting**, without causing problems for future generations.
- Sustainable cities are associated with **HICs** as **NEEs** and **LICs** are still trying to improve, advance and develop.

Features of a Sustainable City:

- Transport (more public transport, more walking and cycling, charges)
- New homes built on brownfield sites and that are more energy efficient
- Wasting less water and sending less of our waste to landfill by recycling
- Urban Greening (planting more trees, roof gardens, living walls, growing food)



Urban Areas in the UK

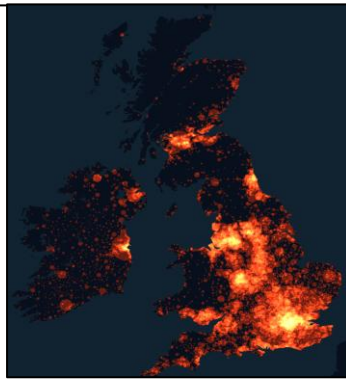
Densely Populated Areas in the UK:

- _____
- _____
- _____

Sparsely Populated Areas in the UK:

- _____
- _____
- _____

Densely populated areas tend to be on _____ land, near _____, near a _____, with a _____ climate and a closer proximity to _____..



Counter-urbanisation

Process of _____.
This has been occurring in many _____ since the mid 1900s.

Causes: (These can be push or pull factors)

- _____
- _____
- _____
- _____

Impacts:

Positives	Negatives

Case Study: Urban Change in Manchester

Location:

Industrial Growth:

- Settlement develops in a good location on river Medlock
- Industrialisation, world's first _____
- World centre of _____ trade with good transport/trade links
- Young _____ who want higher levels of wealth
- Urbanisation (_____)
- Urban Sprawl, city _____ as more houses and services built

Deindustrialisation:

- Industry declined due to _____
- Manchester's _____ closed, deindustrialisation
- Population _____. Deprivation became a problem

Urban Regeneration:

- Began in 1980s and is still happening now
- Aims to _____
- _____ offers more jobs in media and science, improved transport systems (trams, buses and light rail connect to rest of Greater Manchester), old warehouses made into housing, promoting

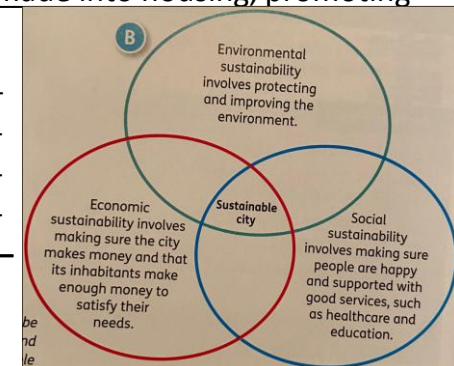
Future Urban Change: Sustainable Cities

- A **sustainable city** is one that _____
- _____
- _____

- Sustainable cities are associated with _____ as NEEs and LICs are still trying to improve, advance and develop.

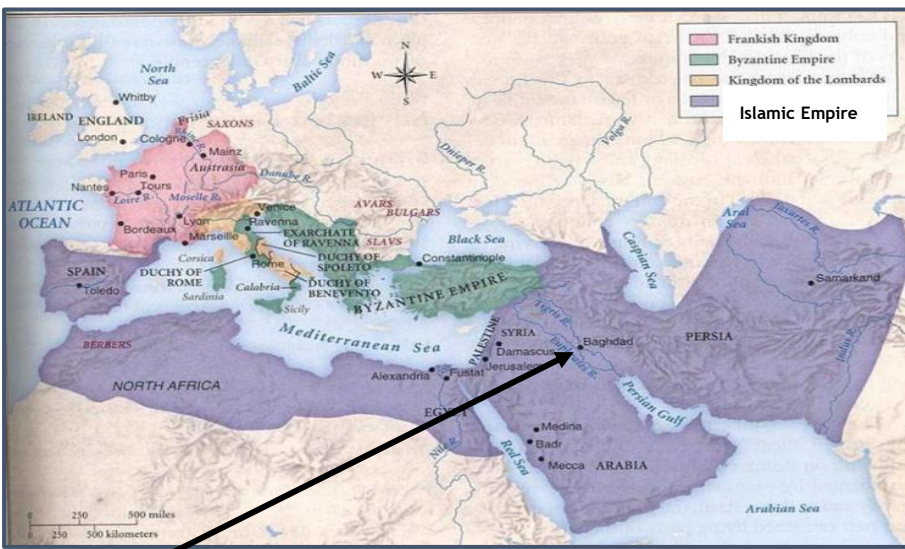
Features of a Sustainable City:

- _____
- _____
- _____
- _____



Y7 History Knowledge Organiser: The 'Golden Age' of Islamic Science

Timeline	
630	The prophet Muhammad captures Mecca and starts Islam, the religion of Muslims
750	The Abbasid Empire begins. It stretches from India to Spain.
751	Arabs learn the art of papermaking from the Chinese
765	First school of medicine set up in Baghdad
810	The largest library in the world is set up in Baghdad
820	First recorded use of algebra
920	Modern numbering system, from 0 to 9, used for the first time



Baghdad

Baghdad was founded in 762 by the al-Mansur. It developed into a center of religious, political, cultural, scientific and commercial influence.



Significance of Baghdad:

- Strategic location - it was on the Tigris River and close to the Euphrates River, making it a crossroads of trade routes between the East and West.
- Achievement in urban design - it was a round city, inspired by Euclid (the Greek father of geometry).
- Populous - Baghdad had a population of over 1.5 million people by the 9th century.
- Center of learning - Baghdad had many libraries, schools, hospitals and the House of Wisdom.





Baghdad's prominence came to an end in 1258, when the Mongol army invaded, killed the Caliph, destroyed this city and threw all of the books from the House of Wisdom into the Tigris River.

The Islamic 'Golden Age'

The Islamic 'Golden Age' ran from 650 to 1300. It is 'golden' because of the advancements in technology, science and philosophy. We can describe it as:

- Advanced
- Religious
- Knowledgeable
- Technological
- Learning
- Scientific
- Progress

How did Islam cause the 'Golden Age'?

Feature of Islam...	Impact on science...
Prayer 	Muslims pray towards Mecca 5 times a day at dawn, midday, afternoon, sunset, and night Muslims needed to know the time of day and the location of Mecca. This led to the development of the astrolabe and astrology .
Qu'ran 	The Qu'ran is the Muslim holy book. It is written in Arabic . Muslims speak Arabic , the language of the Qu'ran. This made it easier to share ideas across different areas of the Middle East .
Eid and Ramadan 	Eid is an important religious holiday, following the month of Ramadan , when a Muslim fasts. Eid begins on a different day each year, depending on the moon. Muslims needed to understand the cycle of the moon. This led to the development of the lunar calendar , an estimate of the axial tilt of the earth , and the use of the astrolabe .
Hajj 	The Hajj is a yearly pilgrimage to Mecca, which takes place at the end of the Islamic year. Muslims needed to know which direction to travel in and when to travel, using astronomy. This also led to astrolabes regularly being traded, leading to ideas travelling quickly.

'Seek knowledge from the cradle to the grave'

'Seek knowledge and wisdom; whatever the vessel from which it flows, you will never be the loser'

Look for facts and experiences. Wherever they come from (positive or negative), you will always have learnt something.

Y7 History Knowledge Organiser: The 'Golden Age' of Islamic Science

Why was the written word important to the Islamic 'Golden Age'?

Introduction of paper
Papermaking was introduced to the Muslim world by China in the 8th century. Paper quickly replaced papyrus and parchment for the recording of written information.



- Advantages of paper:
- It can be produced anywhere.
 - It is difficult to erase, so **documents and records** were more secure from being faked.
 - Replaced coins in the economy, leading to a **paper economy**.
 - Used to copy scientific and philosophical texts.

House of Wisdom
 The **House of Wisdom** was set up by Caliph al-Mansur in the 8th century. It was built to house all of the **knowledge collected** in Baghdad, and contained translated texts from Hindi, Arabic, Greek and Roman, along with further new knowledge.

Scholars were encouraged to submit their work to the House of Wisdom by being **paid the weight of their book in gold**. This led to more knowledge and discoveries being recorded and shared.

Translators
Translators would travel far and wide to bring back unique texts, which they submitted to the House of Wisdom. This led to the work of many important philosophers being saved. This also meant that many translators, such as **Hunayn ibn Ishaq**, becoming very rich.

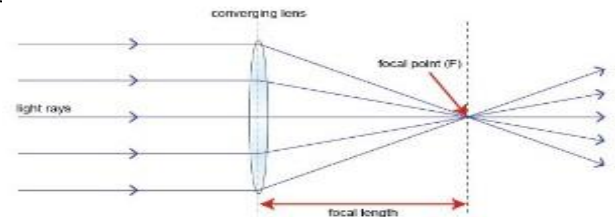


Averroes, or ibn Rushd, was an important philosopher. He believed that the search for science and truth would always lead to God. He was heavily influenced by Aristotle, a Greek philosopher. Averroes believed that natural laws governed the universe, meaning that events happen because of causes you can see and test, not because God wills it. He was not believed during his lifetime.

How did science advance in the Islamic 'Golden Age'?

Scientific Method
Ibn al-Haytham was a scientist who practiced the **scientific method**. This is the process of **observing, recording, testing, repeating and then drawing conclusions** about what has been seen.

Ibn al-Haytham used this in his research about **optics** to discover that **eyes reflect light**, rather than produce it. This discovery has led to the development of glasses and c



Astrolabe
 The **astrolabe** was a handheld device developed in the **Islamic World** during the Middle Ages.



How does it work?
 The **astrolabe** works by **stereographic projection** - this means the stars are projected onto the brass plate. During the day time, the **astrolabe** can be lined up with the sun in order to measure the exact time. During the night, the **astrolabe** can be lined up with the stars for **navigation**.

- Significant uses:
- Calculate when to pray and which direction Mecca is in
 - Calculate the date for important festivals, such as **Eid**
 - Navigate when travelling, in both the day and night.
 - Survey the height of buildings.

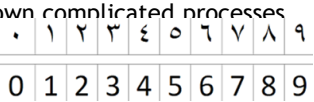
How did maths develop in the Islamic 'Golden Age'?

Al-Khwarizmi
Al-Khwarizmi was a **mathematician** who was the director of the House of Wisdom during the 9th Century.



In his book, **Al-Jabr** (820), he introduced the idea of:

- **Algebra** - simplifying mathematical problems by using symbols and rules.
- **Algorithms** - breaking down complicated processes into simple steps.



He replaced the **Roman numeral system**, used in Europe, with a new **Arabic numbering system**, as well as the **decimal point**.

Vocabulary

Astronomy	The study of the stars
Arabic	The language of Islam
Baghdad	The capital of the Abbasid Caliphate
Caliphate	An Islamic Empire
Caliph	The ruler of an Islamic Empire
Eid	Important Islamic festival
Hadith	The sayings of the prophet Muhammad
Intricate	Small and complicated
Lunar calendar	A calendar based on the movement of the moon
Mecca	The holiest city in Islam
Muhammad	The most important prophet in Islam
Navigation	Finding your way somewhere
Optics	The study of light
Philosophy	The study of knowledge and existence
Pilgrimage	A religious journey
Prophet	An important religious figure who shares the word of God
Qu'ran	The holy book in Islam
Roman numerals	I, II, III, IV, V, VI, VII, VIII, IX, X, etc
Scholars	People who study and research for a living
Scientific method	Basing ideas on proof from experiments
Surveying	Measuring accurately the dimensions of a building or piece of land

1. **During which time period did the Islamic 'Golden Age' take place?**
2. **Which empire, beginning in 750, stretched all the way from India to Spain?**
3. **In 751, from which civilization did Arabs learn the art of papermaking?**
4. **Why was the city of Baghdad significant in terms of its urban design?**
5. **How did the religious requirement of 'Prayer' lead to scientific advancement?**
6. **Which language became the common medium for sharing ideas across the Middle East because of the Qu'ran?**
7. **The development of the lunar calendar and an estimate of the earth's axial tilt was driven by the need to understand which religious events?**
8. **What was the 'House of Wisdom'?**
9. **What event in 1258 brought Baghdad's prominence to an end?**
10. **What does the Islamic teaching 'Seek knowledge from the cradle to the grave' imply?**
11. **Why was paper considered more "secure" than previous materials for recording information?**
12. **How were scholars at the House of Wisdom incentivised to submit their work?**
13. **Which scientist is credited with practicing the scientific method and discovering that eyes reflect light?**
14. **The study of optics by Islamic scientists eventually led to the development of which modern technologies?**
15. **In his book Al-Jabr (820), what mathematical concept did Al-Khwarizmi introduce?**
16. **What significant change did Al-Khwarizmi make to the numbering system used in Europe?**
17. **How does an astrolabe work during the day?**
18. **Which philosopher believed that "natural laws governed the universe" and was heavily influenced by Aristotle?**
19. **What is the definition of 'Surveying'?**
20. **What was the primary role of translators like Hunayn ibn Ishaq in the House of Wisdom?**

Why did religion change in Tudor England?

Key Chronology
1509 - Henry VIII King of England
October 1517 - Martin Luther's 95 theses nailed to Wittenburg Church
1521 - Henry VIII titled Fidei Defensor
1534 - Act of Superiority makes Henry VIII the Supreme Head of the Church
1536 - Smaller monasteries were dissolved
1539 - Larger monasteries dissolved
1539 - Bible translated to English
1539 - Act of Six Articles
1547 - Edward VI becomes King
1553 - Edward VI dies, Mary I becomes Queen
1558 - Mary I dies, Elizabeth I Queen
1558 - Elizabeth's the Act of Uniformity and the Act of Supremacy
1586 - Babington Plot against Elizabeth by Mary QoS and Babington
1587 - Mary Queen of Scots executed

Martin Luther, a priest from Germany, did not agree with the **Catholic Church**.

- They were getting rich from **indulgences**.
- They were not focused on being **pious**.
- The Pope had become like a King with lots of political control.

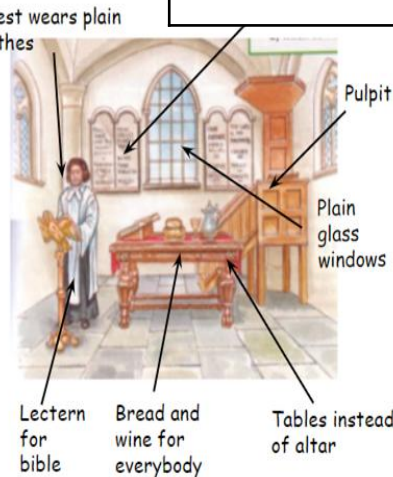
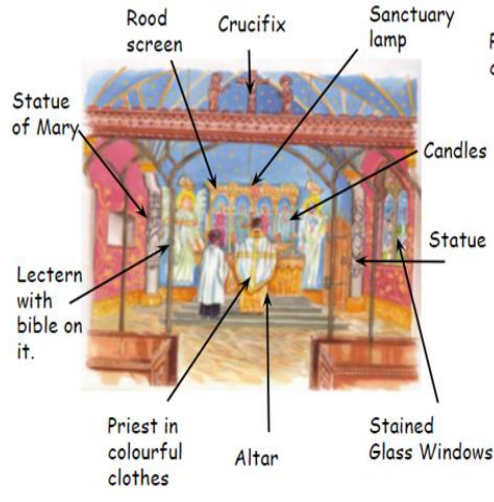


In **1517**, Luther nailed his **95 Theses** to a church in Wittenburg, proposing changes.



- Bible translated so that ordinary people could understand.
- Churches should be plain.
- Money should go to the poor and needy.
- Sins can only be forgiven through prayer.

This was **Protestantism**, in protest of the Catholic Church



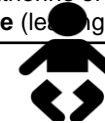
Why did Henry VIII break from Rome?

Henry VIII was a devout Catholic. He even defended Catholicism against Luther's ideas, earning him the title **Fidei Defensor** from the Pope in 1521.

However, Henry had a **Great Matter** – he needed to divorce Catherine of Aragon. This led to him **breaking from Rome** (leaving the Catholic Church).



Henry needs a male heir



Him and Catherine have one daughter - Mary

By breaking with Rome, Henry can divorce and marry Anne Boleyn.

Catholic Church has a lot of power.

Henry wants all of the power to himself



Henry breaks with Rome, the Pope cannot control the **clergy** in England.

Henry needs money to fund for his wars in France



The Church owned 1/3 of the land in England, and their monasteries were very rich.

Henry can destroy the monasteries and take the land and their riches for himself.

Catholic Clergy	Someone who follows the Catholic faith.
Fidei Defensor Indulgences	People who belong to and work in the Church. Defender of the faith. Payments made to the Catholic Church to forgive sins.
Monastery Pious Protestant	A religious building where monks live. Religious or humble. A Christian who does not follow the Catholic faith.
Puritan Reform Reformation	An extreme Protestant. A change. The period of religious changes from Catholic to Protestant.
Sacraments	Catholic holy ceremony

Edward VI continues Reformation



Edward VI becomes king in 1547
 Help to rule by a royal council led by Duke of Somerset, who was also Protestant.

1. A new Protestant Prayer Book in English was made in 1552.
2. Church services were in English.
3. **Transubstantiation** (belief that wine and bread at Communion literally turns into blood and body of Christ) was said not to take place.
4. Priests were allowed to marry.
5. Land was taken from the Church.
6. Churches were ordered to be plain and simple – no statues, ornaments or images.
7. **The Act of Six Articles of 1539** (outlawing Protestant beliefs) was abolished.



Mary I counters Reformation

Mary was raised Catholic.
 determined to make England Catholic again.
 Mary reversed all of the changes made under Henry VIII and Edward VI
 Known as the counter reformation

- Protestant preachers were banned.
- Priests had to split up from their wives.
- Latin Mass was brought back.
- The Protestant Prayer Book was banished.
- Those who denied transubstantiation, were burned at the stake.

Mary burned 300 Protestants at the stake during her 5 year reign, gaining her the nickname 'Bloody Mary'.



How did Elizabeth I deal with opposition?

Catholic threats e.g. Babington Plot.

- Catholic Mary, Queen of Scots had a claim to the English throne.
- Elizabeth I kept her under guard for 19 years.
- Too risky for Elizabeth to let her be free, but bad to execute her
- Babington plotted in 1586 to have Elizabeth killed and Mary QoS become the next monarch.
- Elizabeth's spymaster discovered plot.
- Babington arrested and executed in September 1586.
- Mary QoS put on trial and found guilty. Elizabeth unwilling to kill her cousin, but signed the death warrant in February 1587.



Protestant threats: e.g. Puritans

- Puritans** felt that England had not gone anti-Catholic enough.
- People should study the Bible closely.
 - People should return to simple ways of life.
 - They rejected the Book of Common Prayer as too simplistic.
 - They hated ritual and celebration.

Elizabeth was going to marry a Catholic French prince, John Stubbs wrote an open letter saying how terrible this would be. Elizabeth had his hand cut off.



How did Elizabeth I solve religious tensions?

Elizabeth I had to be careful. Compromise between Catholics and Protestants in England was called the **Religious Settlement**.

1) **The Act of Supremacy (1558)** made Elizabeth the Supreme Governor of the Church of England.

2) **The Act of Uniformity (1558)** made Protestantism the official religion of England, which everyone had to follow.

- Services should be in English.
- Priests can marry.
- Church's can celebrate Saint's Days, but not idols.
- Bishops can stay, but under her control.
- Sins are forgiven by faith in God and good work on earth.
- Only ordained ministers or priests can preach.
- Priests should wear the same robes.
- Church can have some decorations.
- Mass is banned. The bread and wine at Communion is just spiritual.



1. **When did Henry VIII become King of England?**
2. **Who nailed 95 theses to a church in Wittenburg in 1517?**
3. **What does "Fidei Defensor" mean?**
4. **What was Henry VIII's "Great Matter"?**
5. **By breaking from Rome, who could Henry divorce?**
6. **According to the "Catholic Church" illustration, what should a priest wear?**
7. **In the "Protostant" illustration, what are "plain glass windows" a part of?**
8. **In the vocabulary box, what is a "Monastery"?**
9. **After Henry VIII, who became King in 1547?**
10. **Which event happened last on the key chronology: "Mary I dies, Elizabeth I Queen" or "Mary Queen of Scots executed"?**
11. **Who helped Edward VI rule England because he was so young when he became King?**
12. **Under Edward VI's rule, what language were church services required to be in?**
13. **What was Mary I's main goal regarding religion when she became Queen?**
14. **Why did Mary I earn the nickname "Bloody Mary"?**
15. **Give one reason listed under the "Not Bloody Mary?" section that defends her actions.**
16. **What was the name of the compromise Elizabeth I created to solve religious tensions?**
17. **According to the Act of Supremacy (1558), what was Elizabeth I's official title in the Church?**
18. **Who was the Catholic "threat" that Elizabeth I kept under guard for 19 years?**
19. **What did the Puritans think about Elizabeth's religious changes?**
20. **What happened to John Stubbs after he wrote an open letter against Elizabeth marrying a Catholic prince**

How did the world 'turn upside down' in England during the 1640s

Key Chronology

5th November 1605
- Gunpowder plot

27 March 1625
Charles I accedes to the throne

10 March 1629
Charles I starts '11 Years of Tyranny'

4 Jan 1642 - Charles I tries to arrest 5 MP's

22 August 1642 - Civil War begins

25 September 1644
- Parliament ally with Scots

15 Feb 1645 - Parliament establishes New Model Army

Power had always been shared amongst the monarch, barons or nobles and people.

- **William I** needed barons as part of the feudal system
- **Simon de Montford** (noble) went to war against Henry III after he borrowed money from the Pope
- **King John** forced to sign **Magna Carta** (Great Charter) in 1215 after his barons waged war against him because of John's greedy tax laws and loss of land against France.
- Tudors increased the power of the monarchy as well as the **Stuarts** and **Charles I**, who continued the belief that God had chosen them to rule (**divine right to rule**)



Vocabulary	
Democracy	Equal representation among citizens
Civil War	A war between sides of the same nation
Parliament	the building and institution where politicians debate law
Monopolies	King controls licenses to sell items

Parliament declares war on the King in 1642

Roundheads (Parliament)

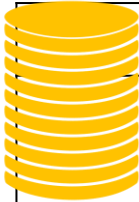
Supported by poorer, Puritans, merchants, businessmen, and commoners.

Cavaliers: (King)

Supported by rich, Catholic, country gentlemen, traditional Protestants



Causes of the English Civil War 1642-49



Economy

- Everybody had to pay an old Ship Tax, as King needs money to pay his expensive wars
- You now have to buy from monopolies: this raises tax for the King
- Charles I evicts people living on the King's Forests

Foreign Policy

- Charles I makes peace with Spain and France, who were Catholic countries. Protestants didn't like this.
- War against Scotland (Bishops Wars) were expensive and a failure

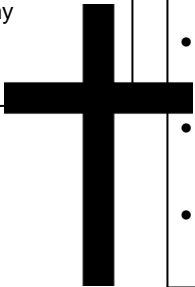


Religion

- Protestants afraid the country becoming more Catholic
- Henrietta Maria, the King's wife, was a French Catholic
- Archbishop of Canterbury, **William Laud**, makes Catholic reforms to the church, including displaying icons and decorations

Power

- Charles I uses old, unfair system of the **Court of the Star Chamber** to sentence people. He imprisoned people without a fair trial.
- Charles I believed his power came from God
- He banned Parliament for 11 years (Eleven Years of Tyranny)



5 May 1646 - Charles I surrenders

20th January 1649 - Charles I is executed

15 May 1649 - Levellers Mutiny is crushed by New Model Army

11 September 1649 - Cromwell crushes Irish at Drogheda

16 December 1653 - Cromwell makes himself 'Lord Protector'

3 September 1658 - Cromwell dies

29 May 1660 - Charles II is restored

16 December 1689 - Bill of Rights is signed

Battles of the Civil War:

1642 **Battle of Edgehill: Draw:** King managed to march to London, but were forced to stay at Oxford

1644 **Battle of Marston Moor: Win for Parliament:** Parliament attack and win the North from the King

1645 **Battle of Naseby: Win for Parliament:** Cromwell's New Model Army (Ironsides) wiped out Prince Rupert's army, forcing the King to surrender in Oxford in 1646



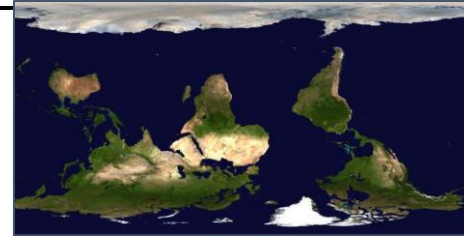
New Model Army:

- Cromwell realised Parliament needed better cavalry to defeat the King's under Prince Rupert.
- Cromwell's '**Ironsides**' were tough, well-disciplined and well trained



Cromwell Victory had political consequences

- The King is executed 3rd January 1649
- Cromwell set up a **military dictatorship** (army controlled Parliament) . After all, the Army controlled England and the Rump Parliament (only 50 MP's) were inadequate
- Cromwell's '**Barebones**' Parliament, made up of Puritans, was a failure so he made Major Generals (Army) take over. Cromwell therefore ruled as a **military dictator** using the army to suppress people and keep law and order.



Cromwell Victory had social consequences



- 'world turned upside down' meant people were **beginning to question** how they should live: **radical** (extreme) ideas were being passed around about how to rule without a King.
- New ideas spread about how society should be led:
 - **Levellers** - wanted freedom of speech, end of Divine Right of Kings, equal rights for people
 - **Diggers** - wanted absolute human equality, shared land between everyone

Hero	Villain
<ul style="list-style-type: none"> • Promoted religious freedom in private (allowed Jews to return to England) • Increased the fair trial system (ridding of the Star Chamber) • Ended the King's unfair Ship Tax 	<ul style="list-style-type: none"> • Ruled like a King (hypocrite?) • Massacred over 3000 people at Drogheda in Ireland • Banned theatre, dance and entertainment • Increased the Empire (capturing of Jamaica)

Parliament's power increased for the people: **Bill of Rights (1689)** signed by **King William and Queen Mary** said Parliament could appoint judges and have frequent meetings, and that Parliament controlled the money of England.

1. **On what date did Charles I officially become King of England?**
2. **What was the "Eleven Years of Tyranny"?**
3. **Which important historical document was King John forced to sign in 1215?**
4. **What is the "Divine Right to Rule"?**
5. **In the "Economy" section, what was the name of the old tax Charles I made everyone pay to fund his wars?**
6. **Why were many Protestants unhappy with Charles I's marriage to Henrietta Maria?**
7. **What was the "Court of the Star Chamber" used for?**
8. **The Civil War was fought between two main groups. Name them and state who each group supported.**
9. **According to the vocabulary box, what is a "Monopoly"?**
10. **What major event happened in February 1645 which change the strength of Parliament?**
11. **Which 1645 battle was a decisive win for Parliament and led to the King's surrender in 1646?**
12. **What was the nickname given to Oliver Cromwell's tough, well-trained cavalry?**
13. **On what date was King Charles I executed?**
14. **What title did Oliver Cromwell give himself on December 16, 1653?**
15. **Cromwell ruled as a "military dictator." According to the text, what does this mean?**
16. **What did the group known as the "Levellers" want for the people of England?**
17. **Give one "Hero" reason why some people supported Cromwell.**
18. **Give one "Villain" reason why some people disliked Cromwell's rule.**
19. **Who was "restored" to the throne on May 29, 1660?**
20. **What did the Bill of Rights (1689) say about who controlled England's money?**

Year 7 Religious Studies Knowledge Organiser - Judaism

Key vocab:

Rabbi: Jewish spiritual leader who leads services at the Synagogue

Synagogue: Jewish place of worship

Mitzvot: meaning commandment - 613 within the Torah

Tanakh: Also known as the 'Hebrew Bible' is the collection of the main 3 Hebrew scriptures below.

Torah: The book of law - the most important Hebrew text revealed to Moses after the Exodus.

Ketuvim: Primarily containing poetical books and songs of praise. Mostly written by King David and King Solomon.

Nevi'im: The book of Jewish History and the prophets

Jerusalem: The most important city to Jews. Located in Israel

Hebrew: The language of the Jews

Monotheism: The belief in one God

Covenant: An agreement made (between humanity and God)

10 commandments: The most important laws of the 613 mitzvot

Denominations of Judaism

Orthodox: Believe that it is essential to keep traditional beliefs and the Jewish way of life alive. Orthodox Jews think that the laws in the Torah show clearly how God wants Jews to live and should be closely followed.

Conservative: Are not as strict as Orthodox Jews, though still preserve Jewish rituals and traditions. They are more flexible in interpreting Jewish laws in the modern world.

Liberal: Believe that worship can change and modernise over time. For example, some liberal synagogues allow women to be Rabbis. They might also think that some laws in the Torah are not appropriate for modern day and should be changed to suit.

Secular: Jews who do not believe in God but still consider themselves to be Jewish by culture or ethnicity.

Key Beliefs of Judaism

- The founding father of Judaism, Abraham, made a covenant with God. Abraham and his descendants were to worship God and live according to his commands and in return, God promised they would become a great nation.
- Moses received the 10 commandments God at the top of mount Sinai after freeing the Hebrew slaves from Egypt and scribes the original Torah.
- Jews should live their lives according to what is written in the Torah, following the 613 Mitzvot that are present within.
- Jews believe that there is a single God who not only created the universe, but with whom every Jew can have an individual and personal relationship.

Jewish rituals:

Brit Milah: Circumcision and naming ceremony for boys 8 days after birth

Simchat Bat: Welcoming ceremony for girls

Bar Mitzvah: Coming of age ceremony for boys (age 13)

Bat Mitzvah: Coming of age ceremony for girls (age 12)

The Synagogue: The place of worship for Jews. Orthodox Jews will worship in the synagogue 3 times a day and follow the guidance in the Torah of how to do so properly.

Shabbat: The holy day of rest and worship for Jews which starts Friday at sundown and finishes Saturday at Sundown. Exactly how this day is spent differs between denominations but traditionally Jews will not perform any task deemed as 'work' and instead focus on worship and enjoying time with family.

Trefah and Kosher: As part of the mitzvot some Jews will follow food laws known as Kashrut. Trefah refers to food that are not acceptable for Jews to eat (words translates to torn). Kosher foods are foods which are acceptable for Jews to eat (word means 'fit').

Jewish festivals

Pesach: Commemorating the Exodus of the Hebrew slaves from Egypt and the 10th plague that was unleashed upon the Egyptian people. The lives of all the first born children were taken by the angel of death. To avoid the plague, the Hebrews were told to slaughter a lamb and with it's blood, mark the doorposts of their homes. The angel of death is said to have seen the blood, passed over the home and not entered.

Yom Kippur: Jews mark the day of Yom Kippur by fasting for 25 hours. They also wear white and they don't wear make-up, perfume, or leather shoes. The most important part of Yom Kippur is the time spent in the synagogue. Even Jews who do not go to the synagogue very much will go on Yom Kippur. The day is spent in continuous prayer.

Rosh Hashanah: A special festival that celebrates Jewish New Year. The dates of Jewish festivals come from the Hebrew Calendar, so the Jewish New Year begins in autumn. Celebrating the creation of the world and marks making a fresh start.

It is a holy day on which Jewish people are not expected to work. Instead it is a time for them to reflect on the past year and to ask for forgiveness for anything wrong they feel they have done.

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YEAR 7 FRENCH KNOWLEDGE ORGANISER

Sentence Builder 5

I live in	j'habite à...	London	Londres
in a town	dans une ville	in a flat	dans un appartement
in a village	dans un village	in a farm	dans une ferme
in a house	dans une maison	small/big	petit(e)/grand(e)
which is located	qui se trouve	of England	de l'Angleterre
in the east	dans l'est	of the United Kingdom	du Royaume-Uni
in the west	dans l'ouest	of France	de la France
in the south-west	dans le sud-ouest	is/was	est/était
in the south	dans le sud	my (m,f,pl)	mon/ma/mes
now	Maintenant...	there is/are	il y a/
these days	De nos jours	there isn't/aren't	il n'y a pas de (d')
before	Avant	but unfortunately	mais malheureusement
when I was younger	Quand j'étais plus jeune		
historic	historique	a shopping centre	un centre-commercial
boring	ennuyeux/se	popular	populaire
clean	propre	famous	célèbre
quiet	calme	pleasant	agréable
ordinary	ordinaire	a post office	une poste
		a garden	un jardin
		a shop	un magasin
		a pool	une piscine
		a station	une gare

Practice Translations

I live in Gloucester in a big house	
Now my town is famous and pleasant	
When I was younger my area was boring	
but unfortunately there isn't a station	
In my village there is a shop and a pool	

YEAR 7 FRENCH KNOWLEDGE ORGANISER

Sentence Builder 6

Usually	D'habitude	Normally	Normalement
At the moment	En ce moment	Often	Souvent
Sometimes	Quelquefois	every day	Tous les jours
From time to time	De temps en temps	Generally	Généralement
Each day	Chaque jour	in my area	dans ma zone
In my town	Dans ma ville	in my village	dans mon village
In my region	Dans ma région	in my neighbourhood	dans mon quartier
on my street	Dans ma rue	in my country	dans mon pays
I travel	Je voyage	to go to school	pour aller à l'école
I go	je vais	to go on holiday	pour aller en vacances
I would travel	Je voyagerais	to visit my friends	pour visiter mes copains
I would go	j'irai	to help the environment	pour aider l'environnement
on foot	à pied	If I had the choice	Si j'avais le choix
by train	en train	If I had enough money	Si j'avais assez d'argent
by car	en voiture	If I had the time	Si j'avais le temps
by coach	en car	If I could	Si je pouvais
by plane	en avion	If I was rich	Si j'étais riche
by bus	en bus	If I had to choose	Si je devais choisir
by boat	en bateau		

Practice Translations

Sometimes I travel by car to go to school	
If I had the time I would go on foot	
Often I go by bus to visit my friends	
If I was rich I would go by plane	
If I had the choice I would go by boat	

YEAR 7 FRENCH KNOWLEDGE ORGANISER

Sentence Builder 7

I love	J'adore	I would say that	je dirais que
I like	J'aime	in my opinion	À mon avis...
I prefer	Je préfère	however	cependant

I hate	je déteste	but	mais
I can't bear	Je ne supporte pas	reality-tv programmes	les émissions de télé-réalité
I don't like	Je n'aime pas	the news	les informations
series	les séries	my dad	mon père
music programmes	les émissions de musique	my brother	mon frère
sport programmes	les émissions de sport		

because	parce que/car/puisque	my sister	ma sœur
I find them	je les trouve	my friend (f)	ma copine
my friend (m)	mon copain	he/she finds them	il/elle les trouve
my mum	ma mère		

he/she thinks that	il/elle pense qu'	fun/funny	amusantes
my parents think that	mes parents pensent qu'	tiring	fatigantes
my friends think that	mes copains pensent qu'	exciting	passionnantes
they are	elles sont	interesting	intéressantes
different	différentes	surprising/amazing	étonnantes
		boring	ennuyeuses
		rubbish	nulles

Practice Translations

I love music programmes, I find them interesting.	
I hate the news because I would say they are boring.	
My friend (f) can't stand sports programmes.	
She finds them rubbish.	
My parents love series because they find them fun.	

YEAR 7 FRENCH KNOWLEDGE ORGANISER

Sentence Builder 8

During my free time	Pendant mon temps libre	Usually	D'habitude
each day	chaque jour	At the moment	En ce moment
Normally	Normalement	Sometimes	Quelquefois
Often	Souvent	From time to time	de temps en temps
		every day	tous les jours

I watch	je regarde	I like to watch	j'aime regarder	I love to watch	j'adore regarder
we watch	nous regardons	I only watch	je ne regarde que	I don't watch	je ne regarde pas
crime films	des films de crime	comedies	des comédies	I never watch	je ne regarde jamais
horror films	des films d'horreur	videos	des vidéos	after school	après le collège
police films	des films policiers	at my house	chez moi	when I have some free time	quand j'ai du temps libre
		on a YouTube channel	sur une chaîne YouTube	on TV	à la télé

at the cinema	au cinéma
on Netflix/TikTok	sur Netflix/TikTok
but	mais
however	cependant

Practice Translations

During my free time I like to watch films on TV	
I never watch horror films after school	
Every day I love to watch videos on YouTube	
We watch comedies from time to time	
However, I don't like crime films	

YEAR 7 FRENCH KNOWLEDGE ORGANISER

Sentence Builder 9

My school is called...	Mon école s'appelle...	which is located	qui se trouve
of France	de la France	in the north / south / east/west/south-west	dans le nord / sud / est / ouest / sud-ouest
it's a secondary school	c'est un collège	of England	de l'Angleterre
in the town centre	au centre-ville	in the countryside	à la campagne
		at the mountains	à la montagne

we have to	il faut	arrive on time	arriver à l'heure
it's forbidden to	il est interdit de (d')	eat in class	manger en classe
wear school uniform	porter l'uniforme scolaire	use your mobile in class	utiliser son portable en classe
do your homework	faire ses devoirs	I agree	je suis d'accord

In my school	Dans mon collège	lots of	beaucoup de
there is/are	il y a	plenty of	plein de
we have	on a / nous avons	so many	tellement de

teachers	professeurs / profs	a sports field	un terrain de sport
pupils	(d')élèves	a tennis court	un court de tennis
lessons	cours / leçons	a laboratory	un laboratoire
classrooms	salles de classe	a playground	une cour de récréation
rules	règles	a canteen	une cantine
		a swimming pool	une piscine

Practice Translations

My school is called Henley Bank High School.	
It's a secondary school which is located	
In the south-west of England in the countryside	
There are lots of classrooms and teachers	
We have a sports field and lots of lessons	

YEAR 7 SPANISH KNOWLEDGE ORGANISER

Sentence Builder 5

Hello	Hola	and	y
I would like to present myself	quiero presentarme	I live in	Vivo en
My name is...	me llamo...	I live in a town	Vivo en una ciudad
		I live in a village	Vivo en un pueblo

Which is (located)	Que está	Reino Unido	UK	July	julio
In the north of	En el norte de	Alemania	Germany	August	agosto
In the south of	En el sur de	España	Spain	September	septiembre
In the west of	En el oeste de	Las Islas Baleares	Balearic Islands	October	octubre
In the east of	En el este de	Las Islas Canarias	Canary islands	November	noviembre
In the northeast	En el noreste			December	diciembre
In the southwest	En el suroeste				

A big house	Una casa grande	Venezuela, Perú	Bolivia, Ecuador
A small flat	Un piso pequeño	Gloucester, Barcelona, Madrid, Buenos Aires	

Now	Ahora	Now my city is	Ahora mi ciudad es
My town is	Mi pueblo es	small	pequeña
Historic and modern	Histórico y moderno	old	antigua
And beautiful	Y bonito	huge	enorme

Practice Translations

Hello I would like to present myself.	
I live in a small and beautiful town.	
Now my city is huge and historic.	
I live in a town in the south of Spain.	
I live in a small flat in the east of Gloucester.	

YEAR 7 SPANISH KNOWLEDGE ORGANISER

Sentence Builder 6

Before	Antes	But	pero
My street <u>was</u>	Mi calle <u>era</u>	Unfortunately	desafortunadamente
My neighbourhood	Mi barrio	The isn't/there aren't	No hay
When I was younger	Cuando era pequeño/a	I hate	odio
My region	Mi región	I can't stand	no aguanto

There is/are	hay	There isn't	No hay	In my province there is.....	En mi provincia hay....
Un aeropuerto	A airport	Una biblioteca	A library	A castle	Un castillo
Un centro comercial	A shopping centre	Una piscina	A pool	A market	Un mercado
Un jardín	A garden	Una playa	A beach	A cinema	un cine
Un puerto	A port	Una estación	A station	A post office	Una oficina de correos
		Una farmacia	A pharmacy	A shop	Una tienda
		Una playa	A beach		
In my region	En mi región	I go	Voy	Clean	Limpio/a
I travel	viajo	By car	En coche	Dirty	Sucio/a

I travel by bus	Viajo en autobús	If I had the opportunity	Si tuviera la oportunidad
I go on foot	Voy a pie	I would travel by bike	Viajaría en bici
I go by train	Voy en tren	If I could	Si pudiera
I travel by plane	Viajo en avión	I would go by car	Iría en coche

Practice Translations

Now my neighbourhood is big and beautiful.	
Before my town was old and dirty.	
Unfortunately there isn't a post office.	
If I could, I would travel by plane.	
When I was younger in my village there was a pool and a station.	

YEAR 7 SPANISH KNOWLEDGE ORGANISER

QUIZ – Sentence Builder 5 & 6

In my house		me	
In my family		my sister	
there is...		my step-dad	

Also, at the moment		A flat		There is	
I live in		a house		A shop	
A big house		a town		A pool	
I would say that		a city		A school	
		big		A park	
		small		A library	

I would say that		By plane		sometimes	
In my opinion		On foot		often	
I go		By tube		every day	
I travel		By bike		never	
By car				always	

I like sci-fi programmes		because	
I don't like comedies		they aren't	
news		they are	
It is...		interesting	
		funny	
		boring (x2)	

Practice Translations

I never travel by bus.	
I always go by car to school.	
I would say that my city is big.	
In my town there is a library, a park and a shop.	
I don't like adventure programmes because they aren't interesting .	

YEAR 7 SPANISH KNOWLEDGE ORGANISER

Sentence Builder 7

I love	Me encanta(n)	programmes	Los programas
I like a bit	Me gusta(n) un poco	series	las series
I prefer	Prefiero	news	las noticias

I hate	Odio	documentaries	los documentales
I can't bear	No aguanto	series of...	las series de....
I can't stand	Detesto	programmes of...	los programas de...

My brother loves	A mi hermano le encantan	amor	romance/love
My friend doesn't like	A mi amigo/a no le gusta(n)	adventure	aventura
My mum hates	Mi madre odia	horror	terror

I would say that	Diría que	because	Porque / ya que
In my opinion	En mi opinión	they are They aren't	Son No son
really	realmente/ verdaderamente	fun	divertido(a)(s)
absolutely	absolutamente	relaxing	relajante (s)
films	las películas	exciting	emocionante(s)
		interesting	interesante(s)
		cheerful	alegre(s)
		boring	aburrido(a)(s)
		boring	monótono(a)(s)

Practice Translations

I would say that I can't stand romance programmes.	
I really love documentaries because they are exciting.	
I hate horror series because they are boring .	
In my opinion adventure programmes are totally relaxing and they aren't boring.	
I can't bear the news because they aren't cheerful .	

YEAR 7 SPANISH KNOWLEDGE ORGANISER

Sentence Builder 8

Normally	Normalmente	I don't watch	no veo
From time to time	De vez en cuando	I always watch	siempre veo
Sometimes	a veces	I never watch	nunca veo
I like to watch	me gusta ver	I go	voy
I love to watch	me encanta ver	to the beach	a la playa
I watch	veo	to school	al colegio
Given that (because)	dado que	I think that	pienso que
I would say that	diría que	I believe that	creo que
They are	son	He/she thinks that	piensa que
at the cinema	En el cine	My parents think that	mis padres piensan que
at home	en mi casa	My friends think that	mis amigos piensan que
on a music channel	en un canal de música	In the morning	Por la mañana
on Netflix	en Netflix	In the afternoon	Por la tarde
at my friend's house	en la casa de mi amigo	Por la noche	In the evening
on tv	en la tele	Antes del colegio	Before school
often	A menudo	Después del colegio	After school
From time to time	De vez en cuando	Cuando tengo tiempo libre	When I have free time
Dos veces a la semana	Two times per week (twice a week)		
Tres veces a la semana	Three times a week		

Practice Translations

Sometimes I watch series in the afternoon after school.	
From time to time I watch series at my friend's house.	
My parents think that I never watch programmes on Netflix.	
I think that, twice a week, I love to watch programmes.	
I would say that I always watch films on Netflix.	

YEAR 7 SPANISH KNOWLEDGE ORGANISER

Sentence Builder 9

My school is called	Mi colegio se llama	Mucho/a (s)	Lots of
My school is called	Mi instituto se llama	Poco/a (s)	few
It is	es	Demasiado/a (s)	too many
A big secondary school	Un colegio secundario grande	teachers	profesores
It is a sixth form college	Es un bachillerato	pupils	alumnos
It is called	Se llama	students	estudiantes
but	pero	I think that	pienso que
It isn't	No es	I believe that	creo que
Which is	está	he/she thinks that	piensa que
In the north of England	En el norte de Inglaterra	exámenes	exams
In the southeast of England	En el sureste de Inglaterra	aulas	classrooms
On the coast	En la costa	rules	reglas / normas
In the countryside	en el campo	Sports teams	Equipos de deporte
In the mountains	En las montañas	subjects	asignaturas
En the town centre	En el centro	We have to	Hay que
We have	Tenemos	It is forbidden	Está prohibido
There is/are	hay	To eat in class	Comer en clase
		To arrive late	Llegar tarde
		Usar tu móvil	To use your phone

Practice Translations

My school is called Henley Bank High School	
It is a big school which is (located)	
In the southwest of England	
We have lots of teachers and pupils	
There are too many rules and a few lessons	

Year 7 Support Knowledge

Keywords associated with support

Assisting

Back someone

Encourage

Contribute

Example of support

- Backing up in cricket
- Zone defense in netball
- Running with the ball carrier in rugby
- Being there to pass to in any sport
- Giving guidance on where to be as a leader.

Support definition - The purpose of support in sport is to contribute effectively as a team to reach a collective goal.

What are the defensive principles?

These are used to stop teams making advance towards goal

Man to man	Marking a specific player
Zone	Making a space as a unit
Closing Down	Outnumbering the attack and giving them less space

What are the attacking principles?

These are used to advance towards goal

Angles & options	Running into spatial directions
Overloading	Having more attackers than defenders
Creating space	Allowing others to 'run through' having 'protected' space.

Year 7 Support Knowledge

Keywords associated with support

Example of support

- Backing up in cricket
- Zone defense in netball
- Running with the ball carrier in rugby
- Being there to pass to in any sport
- Giving guidance on where to be as a leader.

Support definition -

What are the defensive principles?

These are used to stop teams making advance towards goal

What are the attacking principles?

These are used to advance towards goal

Year 7 Reduce Space Knowledge

Keywords associated with Reduce space

Narrow

Press

Closing down

Squeeze

An example of a question

Team A are doing really well at reaching the goal. How could you reduce the space?



- Keep the triangles as close to the circle bench as possible.
- Put more circle players in front of the triangle bench.

Reduce space definition - When the playing area you are working in is made smaller, or you attempt to make the playing area smaller for the opposition

How do we reduce space?

Narrowing the angle	This term is frequently used in sports like football or hockey when a defender, especially a goalkeeper, moves closer to the ball carrier to reduce the available space for a shot or pass
Compacting	A team is described as "compact" in defense when players stay close together, making it difficult for the opposition to find space between them.
Pressing/high press	While this is a broader term for a defensive strategy, a key component of pressing is to reduce the time and space the opponent has on the ball.
Squeezing	This phrase sometimes used to describe a team pushing up the field as a unit to condense the space available to the opponent.
Closing down	This refers to an individual player quickly moving towards an opponent with the ball to reduce their space and force a quick decision or error.

Why do we reduce space?

To stop the team they are playing against getting into an attacking space

Delaying how long the attacking team has to score or gain ground

To force the team into a mistake or run out of attacking time.

Overload the number of players reducing space to the attack

Year 7 Reduce Space Knowledge

Reduce space definition -

Keywords associated with Reduce space

How do we reduce space?

An example of a question

Team A are doing really well at reaching the goal. How could you reduce the space?



- a) Keep the triangles as close to the circle bench as possible.
- b) Put more circle players in front of the triangle bench.

Why do we reduce space?

Year 7 Length & width Knowledge

Keywords associated with length & width

Depth

Channels

Touchline

Goal line

Length & Width definition -

Length - Typically refers to the measurement along the longer boundary lines of the playing area. For a rectangular pitch or court, this is often called the *touchline* in rugby.

Width - Refers to the measurement across the shorter boundary lines, perpendicular to the length. This is often called the *goal line* in netball or the *try line* in rugby.

How to use width in attack

Stretch the defense	By positioning players (wingers, full-backs) out wide, the opposition's defenders are forced to spread out, which creates gaps and space in the central areas for midfielders and strikers to exploit
Create overloads and crossing opportunities	Wide areas are used for quick counter-attacks and delivering crosses into the penalty box. Overlapping runs from full-backs can create numerical advantages (overloads) in wide areas.
Switch play	Quickly moving the ball from one side of the field to the other can disorient a compact defense and exploit the space left on the far side.

How to use width in defense

Condense the field	Defenders push up to reduce the space between the defensive, midfield, and attacking lines, preventing the opposition from playing penetrative passes through the lines
Force errors	By denying space in wide areas, the defense can force opponents into making difficult decisions or losing possession

Year 7 Length & width Knowledge

**Keywords associated
with length & width**

Length & Width definition -

Length -

Width -

How to use width in attack

How to use width in defense

Year 7 Length & width Knowledge

Activities use length and width the most

Cricket
Football
Rugby
Basketball
Netball
Hockey
Badminton
Tennis

How to use length in attack

Force defense to drop	Strikers making runs in behind the defensive line force defenders to retreat and drop deeper, increasing the space in front of the defense for playmakers to operate.
Maintain balance	Holding midfielders or defenders stay deeper to offer support, maintain team shape, and recycle possession
Play long balls	Early long or diagonal passes can exploit a high defensive line and quickly transition the team into a scoring position

How to use length in defense

Compact the field vertically	Defenders push up to reduce the space between the defensive, midfield, and attacking lines, preventing the opposition from playing penetrative passes through the lines.
Set the offside trap	A high defensive line can catch opposing attackers offside, though it is vulnerable to quick balls over the top.

Year 7 Length & width Knowledge

Activities use length and width the most

Cricket
Football
Rugby
Basketball
Netball
Hockey
Badminton
Tennis

How to use length in attack

How to use length in defense

Year 7 Food & Nutrition Knowledge Organiser (Summer Term)

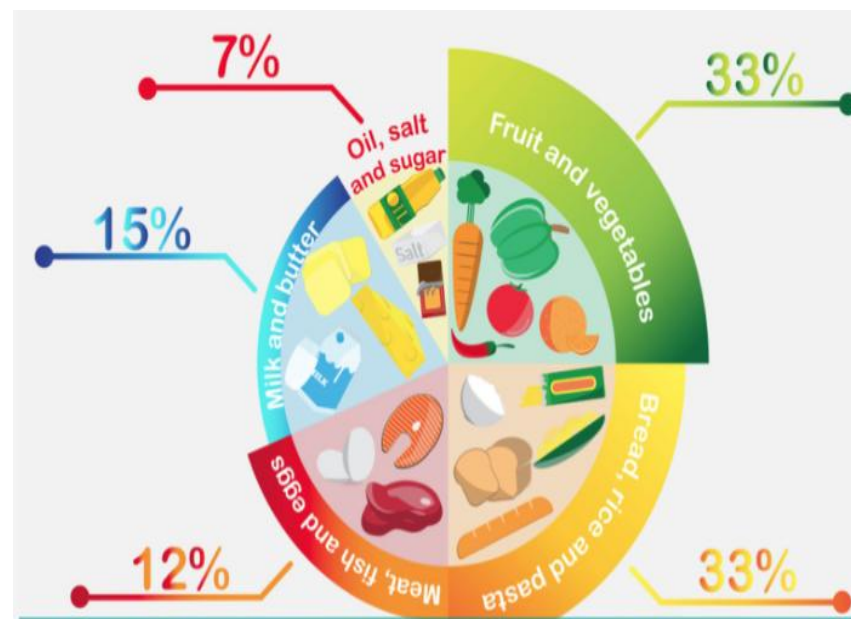
Nutrient	What It Does	Examples
Carbohydrates	Gives energy	Bread, rice, pasta
Proteins	Help us grow and repair	Meat, eggs, beans
Fats	Give energy and protect organs	Butter, oil, nuts, cheese
Vitamins	Help the body stay healthy	Fruits, vegetables
Minerals	Build strong bones and teeth	Milk (calcium), meat (iron)
Water	Keeps us hydrated and helps digestion	Water, fruit, soup
Fibre	Helps with digestion	Whole grains, fruit, veg

Key Tip:

A balanced diet includes foods from all groups.

Protein

- Needed for **growth and repair**
- **Animal sources:** meat, fish, eggs (complete proteins)
- **Plant sources:** beans, lentils, chickpeas
- **Complete protein combos:** rice + beans

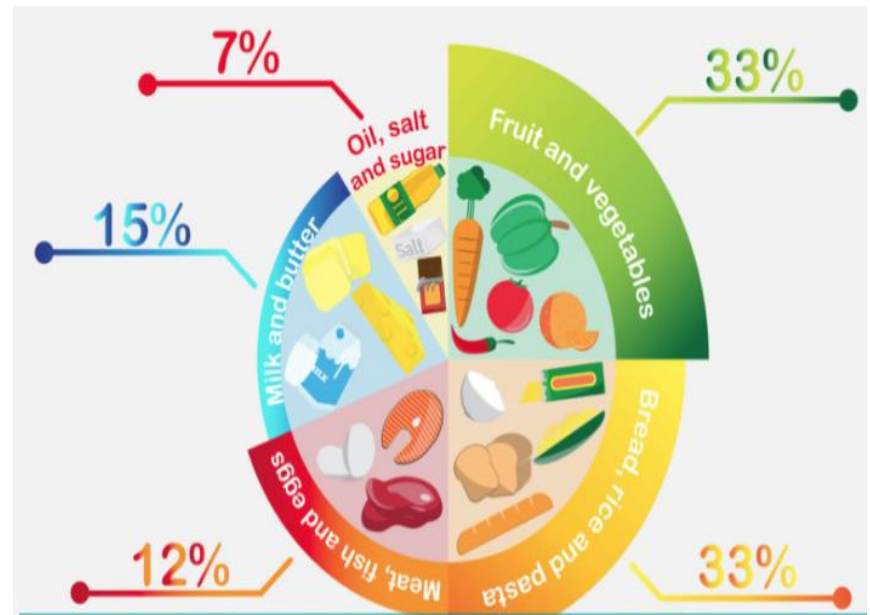


Year 7 Food & Nutrition Knowledge Organiser (Summer Term)

Nutrient	What It Does	Examples
Carbohydrates	Gives energy	.....
Proteins	.....	Meat, eggs, beans
Fats	Give energy and protect organs	.....
Vitamins	.....	Fruits, vegetables
.....	Build strong bones and teeth	Milk (calcium), meat (iron)
Water	.....	Water, fruit, soup
Fibre	Helps with digestion	.....

Key Tip:

A balanced diet includes foods from all groups.



Protein

- Needed for and
- **Animal sources:**
- **Plant sources:**
- **Complete protein combos:**

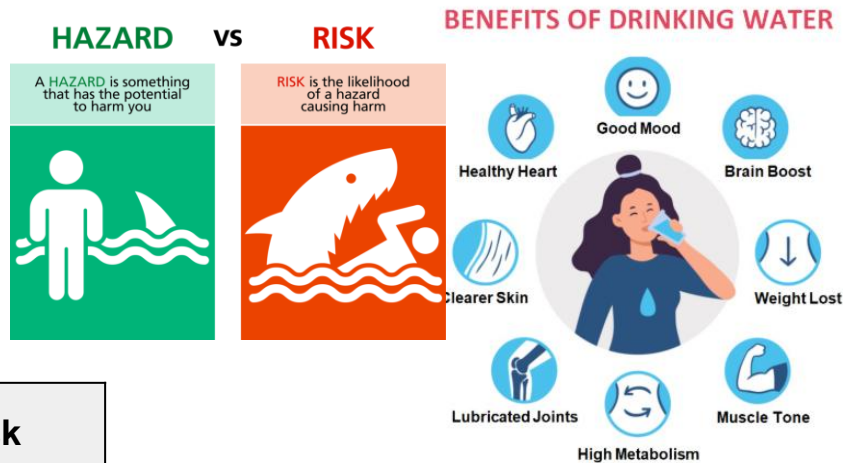
Life Stage	Needs
Babies	Nutrients for rapid growth
Children	Balanced diet for steady growth
Teenagers	More energy & protein (growth spurts)
Adults	Balanced diet to maintain health
Older adults	More fibre, balanced nutrients

Knife Skills & Safety

- Use a claw grip (fingers curled under)
- Cut on a chopping board
- Keep knives sharp (safer than blunt!)
- Carry knives pointing downwards
- Never try to catch a falling knife
- Store knives safely after use

Risks & Hazards

- **Hazard:** Something that can cause harm
- **Risk:** The chance of harm happening



Key Words

- **Balanced diet:** Eating the right amounts of each food group
- **Cross-contamination:** Spread of bacteria between foods
- **Nutrients:** Substances the body needs to function
- **Hygiene:** Keeping clean to prevent illness

Hazard	Risk
Wet floor	Slipping
Sharp knife	Cuts
Hot oven/oil	Burns

The Claw Method



Fingers tucked under with the blade resting against your knuckles.

The Bridge Method



Place your hand over the top of the food and slice between your fingers.

Life Stage	Needs
Babies	
Children	
Teenagers	
Adults	
Older adults	

Knife Skills & Safety

- Use a(fingers curled under)
- Cut on a.....
- Keep knives.....(safer than blunt!)
- Carry knives pointing.....
- Never try to.....a falling knife
-after use

Risks & Hazards

- **Hazard:** Something that can
- **Risk:** The chance of

HAZARD vs RISK

A HAZARD is something that has the potential to harm you

RISK is the likelihood of a hazard causing harm

BENEFITS OF DRINKING WATER

Key Words

- **Balanced diet:** Eating the right amounts of each food group
- **Cross-contamination:** Spread of bacteria between foods
- **Nutrients:** Substances the body needs to function
- **Hygiene:** Keeping clean to prevent illness

Hazard	Risk
Wet floor	
Sharp knife	
Hot oven/oil	

The Claw Method







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The Bridge Method






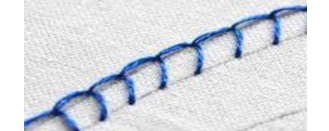
Place your hand over the top of the food and slice between your fingers.

Design and Technology Year 7 - Knowledge organiser

	<p>The <u>running stitch</u> is the basic stitch in hand-sewing and embroidery, on which all other forms of sewing are based. The stitch is worked by passing the needle in and out of the fabric at a regular distance.</p>
	<p>The <u>cross stitch</u> consists of two diagonal stitches that cross in the middle, forming an 'X'. It is decorative and is commonly used to create pictorial patterns, images, or text on fabric with an even weave</p>
	<p>The <u>whip stitch</u> is a simple, diagonal hand-sewing stitch where the needle passes in and out of fabric edges, wrapping around them to join pieces or prevent fraying. It is widely used for finishing blanket edges, seaming felt or leather and closing stuffed items.</p>
	<p>The <u>blanket stitch</u> is commonly used to finish the raw edges of blankets and other fabrics as well as to tack down folded hems.</p>

<u>Term</u>	<u>Description</u>
Textiles	Any material made of interlacing fibers, including woven, knitted or felted fabrics
Embroidery	The art of decorating fabric or other materials by using a needle and thread or yarn to create ornamental designs.
Fibre	A slender filament that can be spun into yarn or used to create materials like cloth, paper, or rope
Synthetic fibres	Man-made filaments produced from polymers through processes such as melt spinning or solvent spinning. Examples include nylon, polyester and viscose.
Natural fibres	Raw, hair-like materials obtained directly from plant, animal, or mineral sources. Examples include wool, linen, cotton and silk
Thread	Yarn used to join different textile pieces together

Design and Technology Year 7 - Knowledge organiser

	<p>The _____ is the basic stitch in hand-sewing and embroidery, on which all other forms of sewing are based. The stitch is worked by passing the _____ in and out of the fabric at a _____ distance.</p>
	<p>The _____ consists of two diagonal stitches that cross in the middle, forming an _____. It is decorative and is commonly used to create pictorial patterns, images, or text on fabric with an _____.</p>
	<p>The _____ is a simple, diagonal hand-sewing stitch where the needle passes in and out of fabric edges, wrapping around them to join pieces or prevent fraying. It is widely used for _____ edges, seaming felt or leather and closing stuffed items.</p>
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<u>Term</u>	<u>Description</u>
Textiles	Any material made of interlacing fibers, including _____knitted or felted fabrics
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Thread	_____used to join different textile pieces together

Design and Technology Year 7 - Knowledge organiser

Wood finishes

<u>Paints</u>	<u>Undercoat</u>	Undercoat is the first coat of paint (on top of a primer if you've used one, or on old finishes if you're reusing timber). It covers up any previous colours more cheaply than applying extra layers of the final 'topcoat,'
	<u>Overcoat</u>	Gloss paints are hardwearing and waterproof and come in lots of colours. They're shiny and used for things like interior woodwork. You apply them with a brush or roller, painting in the direction of the grain.
<u>Varnish</u>	Varnish can be coloured or clear, and either gloss, matt or satin. It can be applied with a brush or sprayed to produce a waterproof coating. It allows the natural wood grain to remain visible.	
<u>Wax</u>	Waxes provide a protective, water-resistant coating that enhances the natural grain and adds a soft lustre to interior wood. Applied with a lint-free cloth in circular motions or along the grain.	
<u>Oil</u>	Enhances the natural grain and provides a protective barrier against moisture and dirt.	

<u>Term</u>	<u>Description</u>
Design Brief	A short, clear statement that outlines a problem to be solved, who it is for, and what needs to be designed and made. It acts as the starting point for a project, providing guidance and focus for the designer
Client	A specific person, group of people, or target audience for whom a product or service is being designed and made
CAD - Computer Aided Design	The use of computer software and digital tools to create, modify, analyze, or optimize a design
CAM - Computer Aided Manufacture	The process of manufacturing products with the help of computers. CAM machines are computer numerically controlled (CNC). They can follow x,y,z coordinates and move the tools to cut out or build up your design. Examples include: Laser cutter, 3D printer and a CNC router

Design and Technology Year 7 - Knowledge organiser

Wood finishes

<u>Paints</u>	<u>Undercoat</u>	_____ is the first coat of paint (on top of a primer if you've used one, or on old finishes if you're reusing timber). It covers up any previous colours more cheaply than applying extra layers of the final _____.
	<u>Overcoat</u>	Gloss paints are hardwearing and waterproof and come in lots of colours. They're shiny and used for things like interior woodwork. You apply them with a brush or _____ painting in the direction of the _____.
<u>Varnish</u>	Varnish can be coloured or clear, and either gloss, matt or satin. It can be applied with a brush or sprayed to produce a _____ coating. It allows the natural wood grain to remain _____.	
<u>Wax</u>	Waxes provide a protective, _____ coating that enhances the natural grain and adds a soft lustre to interior wood. Applied with a lint-free _____ in circular motions or along the grain.	
<u>Oil</u>	Enhances the _____ and provides a protective barrier against moisture and dirt.	

<u>Term</u>	<u>Description</u>
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Computer Science Year 7 - Knowledge organiser

Input/Output Devices

Name	Input / Output
Keyboard	Input
Mouse	Input
Screen / Monitor	Output
Printer / 3D Printer	Output
Microphone	Input
Camera	Input
Speaker / Headphones	Output

Bytes - Kilobytes - Megabytes - Gigabytes - Terabytes

X1000

x1000

x1000

x1000

Spreadsheets

Symbol	Operation	Example
+	Add	=A2+D7
-	Subtract	=H7-E3
/	Divide	=G7/A3
*	Multiply	=G3*E3

Function	Operation	Example
=sum()	Adds the values from the range	=sum(a2:b5)
=max()	Finds the highest value in the range	=max(d2:d10)
=min()	Finds the lowest value in the range	=min(a3:f3)
=average()	Finds the mean average of the values in a range	=average(a2:b9)

Computer Science Year 7 - Knowledge organiser

Input/Output Devices

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=min()		=min(a3:f3)
	Finds the mean average of the values in a range	

Comedy

Comedy basics

- **Comedy:** A genre of theatre aiming to make people laugh
- Comedy can be traced back to Ancient Greece
- The word 'Comedy' comes from the Greek word 'Komos'
- Comedy evolved in Medieval times when it moved onto the streets (after the church banned it in theatres).
- In Italy, the style developed further by inspiring Commedia Dell'Arte (A very physical comedy with falls, accidents and stock characters)
- In other areas of Europe, the style developed into Clowning.
- **Slapstick:** Physical comedy with lots of accidents
- **Satire:** Comedy which pokes fun and takes the mick out of current events and people
- **Buster Keaton:** The first stunt performer
- **Lazzo:** The Italian word for a joke or skit
- **Lazzi:** A routine which actors would put into their performances. Follows the order of: Set up, Accident, Reaction
- Comedic timing relies on an actors pace and pause

Vocal Skills

Pitch: Speaking in a high, low or natural voice

Pace: The speed in which someone speaks

Pause: A break in speaking, a period of silence

Tone: How the voice conveys emotions

Volume: The loudness or quietness of the voice

Emphasis: The exaggeration of individual words



Physical Skills

Facial expressions: Showing emotion with the face

Posture: The way someone stands or sits

Body Language: Open or closed to show emotion

Gesture: A movement with the arms/hands (wave, pointing)

Levels: Height -crouching, laying, stood



Clowning

White Faced clown: Most intelligent, causes trouble, leader -highest status, most stereotypical -has a white painted face

Auguste clown: Least intelligent, loves attention, chaotic, silly, always gets a trick played on them, created the famous red nose

Character clown: Usually silent (but not always), works alongside someone, tends to be tatty, Charlie Chaplin and Mr Bean are a character clown

Comedy

Comedy basics

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- In Italy, the style developed further by inspiring _____ (A very physical comedy with falls, accidents and stock characters)
- In other areas of Europe, the style developed into _____.
- _____: Physical comedy with lots of accidents
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- **Buster Keaton:** _____
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Vocal Skills

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Clowning

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Remember: We never read aloud the stage directions when performing.

Key Vocabulary

Naturalism: a style of theatre which aims to make everything as real and believable as possible. It is the opposite of Melodrama

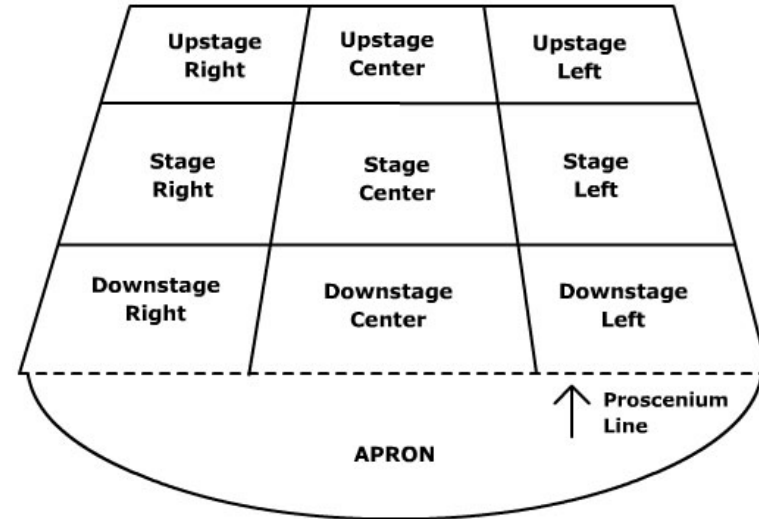
Stanislavski

- Stanislavski created Naturalism
- He was a Russian theatre practitioner -meaning he created theatre

Blood Brothers

- Blood Brothers is the play we have been looking at in class
- It follows the story of Mickey and Edward (Eddie) -they are brothers but do not know.
- The play is set in Liverpool
- The actors who play Mickey and Eddie have to pretend to be 7 years old at the start of the play -this is when the boys first meet.

Scripts and Naturalism



Scripts

- **Table work:** Studying the script and analysing it
- **Script analysis:** Going through the script and deciding how your character is going to act -you may make notes on your script but they must always be in pencil
- **Staged reading/table read:** Reading the script without physically acting it -focusing on your vocal skills and how you say the lines
- **Blocking:** A rough draft of the performance. When actors first act in the space and block out their staging and positions.
- **Stage directions:** Instructions for the actors written in the script. They are usually in *italics* or (brackets). They tell an actor what to do and how to speak.
- **Subtext:** To read inbetween the lines
- **Hot seating:** A rehearsal technique where one character gets asked questions. This allows and actor to deepen their understanding of their role.

Remember: We never _____ the stage directions when performing.

Key Vocabulary

_____ : a style of theatre which aims to make everything as real and believable as possible. It is the opposite of Melodrama

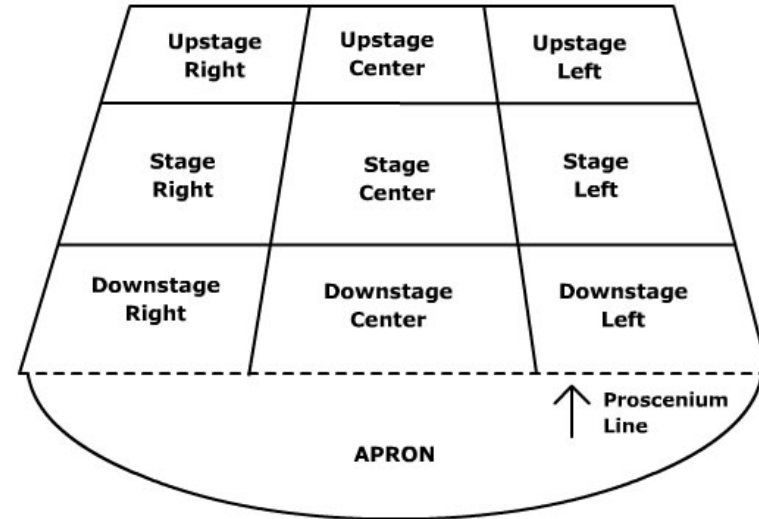
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Elements of Music

Key Vocabulary

- **Soprano:** The highest vocal range in a choir
- **Alto:** The Lowest Female voice in a choir
- **Tenor:** the Highest male voice in a choir
- **Bass:** The lowest vocal range in a choir

Pitch: How high or low a note is

Melody: A linear sequence of notes

Harmony: Two or more note played at the same time

Rhythm: The way music flows

Treble Clef

FACE IN THE SPACES



EVERY GREEN BUS DRIVES FAST FOR THE LINES



Crotchet = 1 beat



Quavers = 1 beat ($\frac{1}{2}$ beat each)

Singing Groups

- **Solo:** 1 person
- **Duo:** 2 people
- **Trio:** 3 People
- **Quartet:** 4 People
- **Quintet:** 5 People

Singing

WARM UPS

We always warm up our:

1. Lungs
2. Muscles in the face and mouth
3. Voice/vocal chords

Instrument families

1. Woodwind - Instruments you need to blow into (Flute)
2. Brass - Instrument that require an embouchure technique
3. Stringed - Instruments that require you the strum/pluck or bow a string.
4. Percussion - any instrument that needs to be hit, shaken or moves to produce a sound.

Additional info

- The conductor is the person who leads the orchestra
- Major is happy music
- Minor is Sad music

Elements of Music

Key Vocabulary

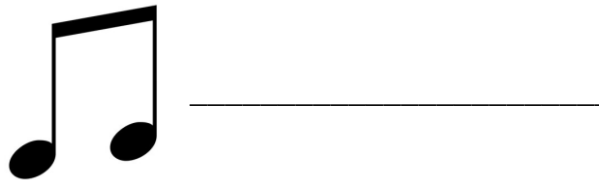
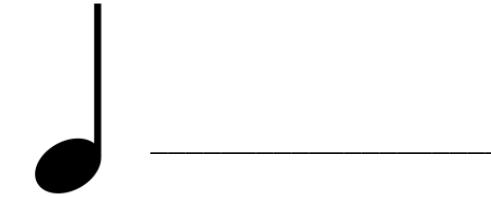
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Singing

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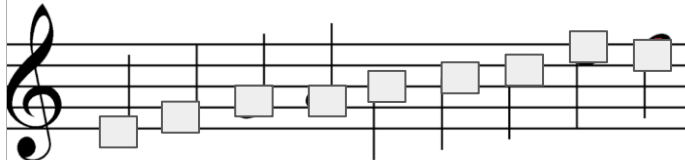
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2. _____
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Treble Clef

FACE IN THE SPACES



**EVERY GREEN BUS DRIVES FAST
FOR THE LINES**

Singing Groups

- _____ : 1 person
- **Duo:** _____
- _____ : 3 People
- _____ : 4 People
- _____ : 5 People

Additional info

- The _____ is the person who leads the orchestra
- Major is _____
- Minor is _____