



Knowledge Organisers

Name:

Team:



Mathematics

Our students will:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of routine and non- routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.



7.06 Ordering decimals

and estimates

- Round numbers to a given power of 10 Round numbers to a given amount of decimal places
 - Round numbers to one significant figure

- Put a list of decimals in ascending or descending order
- Estimate simple calculations by rounding to one significant figure
- Order a list of decimals that recur

Key Word	Definition	Key Concepts		315
Decimal	a number that is not an integer, it has decimal places	When asked to round to a certain degree of a number, you need to	Concept – what it is	Non-Concept – what it isn't
Place Value	the numerical value that a digit has based on the position in the number	have a solid understanding of place value names. For example, if you were asked to round 131.47359 to the nearest HUNDREDTH ,	Estimate	Round 17.96 to 1 decimal place
Rounding	When you make a number simpler by choosing a nearby number with fewer significant figures	you would understand that means to 2 decimal places (131.47359 \rightarrow 131.47)	31 × 398 61 Show clearly how you obtained your answer.	a zero in the first decimal place
Approximate	close to the actual answer but not exact		$\frac{30\times400}{60} = \frac{10}{10}$	column you need to wite your
Estimate	doing a rough calculation by rounding all numbers to 1 significant figure	Also, when asked to round to 1 decimal place for example, if that decimal place rounds to a zero then write it out fully	= 1200 = 600 = 200 200	Whilst the answers have the same
Recurring	when a decimal repeats forever 1/3 = 0.333	(e.g.7.03 → 7.0 NOT 7)		value they have a different degree
Significant	number of digits in a number that contribute to its degree of accuracy	When asked to round to a number of significant figures (e.g. 3	Write these numbers in order of size. Start with the smallest number.	Dead desimple property 0.21 should
	Additional Resources	significant figures) then you would round to the third non-zero	0.417 0.417 777 0.417 1717 0.417 417	NOT be read as zero point thirty-
MathsWatch: <u>N2a</u> , <u>N</u>	<u>1917</u> <u>2b</u> , <u>N27a</u> , <u>N27b</u> , <u>N38</u> , <u>N43a</u> , <u>N43b</u>	number 17895 to 3 significant figures = 17900	0.417, 0.417, 0.417, 0.417	one, it SHOULD be read as zero
Corbett Maths: Videos <u>95</u> , <u>215</u> , <u>276</u> , <u>277a</u> , <u>277b</u> , <u>278</u> , <u>279a</u> ; Worksheets <u>95</u> , <u>215</u> , <u>276</u> , <u>277</u> , <u>278</u> , <u>279a</u>		95 to 1 significant figure = 100 0.0008954 to 2 significant figures = 0.000090		point three one
Career	rs Focus – Where could this take you?	If a question asks you to estimate an answer you round all	Standard Examples	Non-Standard Examples
Plenty of workers such use a range of mather addition and subtract	h as accountants and auditors matics skills including simple ion	numbers to 1 significant figure and then answer the question	Write these numbers in order of size. Start with the smallest number.	Estimate the cost of 31 televisions at £196.50 each and 19 DVD players at £50.99 each.
	Curriculum Links - Coherence	58 8 × 20 9		Show clearly how you obtained your
Required Knowledge: - 7.02 Multiplying a - 7.05 Squares and	and dividing integers roots and Order of Operations	101.4	0.245, 0.245, 0.245, 0.245 Estimate <u>31 × 398</u>	\$ 30 x 200 + 20×50 = 6000 + 1000
Applied to: - 7.07 Areas of shapping of the second	pes scimals and percentages irallel lines d approximation Theorem tion with multiplication and division	58.8 → 60 and 20.9 → 20 and 101.4 → 100 Therefore, 60 x 20 = 1200 and 1200 ÷ 100 = 12 In order to work out the size order of recurring decimals then it can be beneficial to write them out to more decimal places $0.\dot{46} = 0.464646466466 \dots$ or $0.\dot{464} = 0.4644644664 \dots$	61 Show clearly how you obtained your answer. $30 \times 400 = \frac{12000}{60}$ $= \frac{1200}{6} = \frac{600}{3} = 200$ (3) Round 3925 to the nearest hundred.	At the football match 2156 hot drinks were sold. The caters round this number to the nearest hundred.
- Comparing values - Checking calculat	s (Science) ions (Science)	that $0.\dot{4}6\dot{4} < 0.\dot{4}\dot{6}$	3900	2200



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Useful Formulae and Hints	GCSE Questions	
Become familiar with place value names (examples at bottom of 9,)	(b) Round 184329 to the nearest hundred.	(a) Round 7.3065 to 2 decimal places.
If rounding to a number of significant	(b)[1]	(a)
number after the desired and see if rounds up or down (1,2,3,4 DOWN 5,6,7,8,9 UP) For example 26 6789 to 2 decimal	2 (a) Write down.(i) 3091 rounded to the nearest hundred	(i) 408231
places 26.67 89 8 rounds up therefore 26.68 (2d.p.)		(b)(i)[1] (ii) 0.006 137 02
When dealing with recurring decimals, it is very beneficial to write them out	(a)(i)[1]	
decimal places) For example, 0.345 = 0.345345	19 Asha worked out $\frac{326.8 \times (6.94 - 3.4)}{59.4}$. She got an answer of 19.5, correct to 3 significant figures.	(ii)[1]
If you have rounded an answer and the final decimal is a zero, KEEP IT THERE 8.99 to 1 d.p. → 9.0 NOT 9	Write each number correct to 1 significant figure to decide if Asha's answer is reasonable.	2 By rounding each value to one significant figure, estimate the cost of 3.9 kg of apples at 87p per kg.
2 6 2 4 3 4 5 . 2 3 4 5 2 6 2 4 3 4 5 . 2 3 4 5 decimal bundre tenthousar million		
usandths ndths dths I point I point ds nds nds nds stands usands d thousands	[3]	£



7.07 Perimeter and area of rectangles and

compound shapes

- Calculate the area of a rectangle
- Calculate the perimeter of a rectangle
- Find possible dimensions of a rectangle given its area

- Find possible dimensions of a rectangle given its perimeter
- Find the area of a compound shape constructed from rectangles
- Find the perimeter of a compound shape constructed from rectangles





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Useful Formulae and Hints	GCSE Questions
Area of rectangle = length x width	 12 The shape below is formed from a rectangle measuring 12 cm by 15 cm from which a rectangle of length 7.4 cm has been removed. 15 Here is the floor plan of a rectangular room. 4.5 m
Perimeter = distance around the outside of a shape When working out area, if you're given all four sides, you only need to use the length and width once If you've been given the area and you're struggling to find what the missing length is, use a bus stop method - Area ÷ length = missing length When working out a missing length when you've been given the perimeter, remember that your missing length is doubled in the perimeter so don't forget to half it -	Not to scale Image: Constraint of the shape. Not to scale 12 cm 15 cm 3 m Image: Constraint of the shape. 12 cm 7.4 cm 6.3 cm Tim buys carpet tiles for this room. Bach lie is a square measuring 50 cm by 50 cm. The tiles are only sold in packs of ten. Each pack costs £20. Tim pays for fitting at a rate of £7.50 per square metre, with any fraction of a square metre rounded up. Work out the perimeter of the shape. £
 (Perimeter – 2 x length) ÷ 2 = missing length When facing a compound shape problem, you will likely have to work out the missing lengths before finding an area or perimeter When splitting you compound shapes into two or more shapes, it can be helpful to draw your new rectangles with the correct dimensions. Alternatively, you can circle the dimensions that are relevant 	22 The diagram shows two rectangles, A and B. Rectangle A 12 cm Rectangle B 12 cm Rectangle B 12 cm Rectangle A has a width of 25 cm and a height of 12 cm. The width of rectangle B is three times the height of rectangle B. The area of rectangle A is equal to the area of rectangle B. Find the perimeter of rectangle B.



- Name simple 2D shapes
- Find the area of a right-angled triangle
- Find the area of a triangle (height contained or outside)

- Find the area of a parallelogram or trapezium
- Find the circumference of a circle
- Find the area of a circle





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7.09 Graphs of linear equations

- Read coordinates in all four quadrants Plot coordinates in all four quadrants
- Draw the graph of a single step equation

- Use a table of values to draw a more complex graph
 - Find the gradient of a line segment
- Find the equation of a straight line from its graph

Key Word	Definition	Key Concepts		
Linear	The highest power is 1	1 Plotting straight line graphs		
Equation	An algebraic statement that two expressions are equal			
Graph	A representation of a sequence of numbers	In order to plot straight line graphs we need to substitute values for x into the equation for the graph and work out the corresponding values for y .		
Coordinate	A point in 2D or 3D space	We often put these values in a table to make our work clearer. Once we have calculated the coordinates, we can plot these as a graph.		
Axis	The frames of reference for coordinates			
Vertical	Straight up and down, the y-axis	Complete the table to plot the graph of the equation		
Constant	From left to right, the x-axis	$y = a \pm 4$		
Intercept	The point at which the line crosses the y-axis			
Gradient	The slope of a line, how high it climbs for each unit across	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
Intersect	When two lines cross over one another	1 Substitute each given value for x into the general equation of a straight line.		
Additional Resources Here we need to substitute the values of <i>x</i> in the table to calculate the values for <i>y</i> .				
MathsWatch: A14a ,	<u>A14b</u> , <u>A14c</u>	x -2 -1 0 1 2 3 4		
Corbett Maths: Videos 186, 186a, 189, 190, 191, 192, 193, 194; Worksheets 186, 189/190, 191/4/5, 192/3				
Careers Focus – Where could this take you? Many fields of work look at the linear relationships between different variables. For example, a Biostatistician would study data with linear relationships related to human health, animals or plants. As a coordinate is written as (x, y) , from the table we now have the coordinates $(-2, 2), (-1, 3), (0, 4), (1, 5), (2, 6), (3, 7), and (4, 8) which we can plot: Braw a straight line through all the plotted coordinates across the whole $				
	Curriculum Links - Coherence	plotting area.		
Required Knowledge: - 7.01 Adding and subtracting - 7.02 Multiplying and dividing - 7.03 Adding and subtracting negatives - 7.04 Multiplying and dividing negatives		y = x+4		
Applied to: - 10H.02 Parallel and perpendicular lines - 9F.04 Statistical diagrams - 10H.12 Solving simultaneous equations with graphs - 9F.15 y = mx + c - 10H.12 Solving simultaneous equations with graphs - 10F.19 Nth term of a linear sequence - 11F.03 Distance and velocity time graphs		Top tip: don't forget to label the line as the equation in the question. Here we have labelled the straight line $u = x + 4$		
Links across school: - Graphing experiment results (Science)				

Concept – what it is	Non-Concept – what it isn't
y $y = -3x+2$	y y = -3x+2 x y -7 -6 -5 -4 -3 -2 -1 -1 -2 -3 -4 -5 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7
	A straight line graph should be extended to the of the off the axes, not just join the crosses
A graph has a gradient of 4 and a y-axis	A graph has a gradient of 4 and a y-axis interce What is it's equation?
intercept of 5. What is it's equation?	y = 4 + 5x
y = 4x + 5	The gradient is the coefficient (number in fron and the intercept is the constant (number on i
Standard Examples	Non-Standard Examples
The gradient of a line tells us how steep a line is. It tells us how many steps the line goes up for every one it goes across. Therefore, the higher the gradient, the steeper the line. If the gradient is negative, the line goes down rather than up (from left to right).	On the grid below draw the graph
Example: Calculate the gradient of the straight line in the diagram.	2x + y = 10
y (4,7) 6	Either rearrange the equation to read so $y = 10 - 2x$ in this case.
$\begin{array}{c c} y \\ (4.7) \\ (6.1) \\ 4 \\ (0.1) \\ 4 \\ (0.1) \\ 4 \\ (0.1)$	Either rearrange the equation to react so $y = 10 - 2x$ in this case. Or use the 'cover up method' where w let $x = 0$, so the equation reads $y = 10$ then let $y = 0$ so the equation reads 2 so $x = 5$.
The change in y is equal to $y_2 - y_1 = 7 - 1 = 6$.	Either rearrange the equation to read so $y = 10 - 2x$ in this case. Or use the 'cover up method' where w let $x = 0$, so the equation reads $y = 10$ then let $y = 0$ so the equation reads 22 so $x = 5$.
The change in <i>y</i> is equal to $y_2-y_1 = 7-1 = 6$. The change in <i>x</i> is equal to $x_2-x_1 = 4-0 = 4$. $m = \frac{6}{4} = \frac{3}{2}$	Either rearrange the equation to read so $y = 10 - 2x$ in this case. Or use the 'cover up method' where w let $x = 0$, so the equation reads $y = 10$ then let $y = 0$ so the equation reads 2 so $x = 5$. Plot the coordinates (0,10) and (5,0) of join them to form the line.
The change in <i>x</i> is equal to $x_2-x_1 = 4-0 = 4$. $m = \frac{6}{4} = \frac{3}{2}$ So the gradient of the line is $m = \frac{3}{2}$.	Either rearrange the equation to read so $y = 10 - 2x$ in this case. Or use the 'cover up method' where w let $x = 0$, so the equation reads $y = 10$ then let $y = 0$ so the equation reads 2, so $x = 5$. Plot the coordinates (0,10) and (5,0) of join them to form the line.



7.09 Graphs of linear equations

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7.10 Real life graphs

The learning outcomes for this topic are:

- Read information from a time series graph
- Describe features of a time series graph
- Use a conversion graph

Draw a graph from a data table

- Compare two time series graphs
- Create a conversion graph from a conversion rate

Key Word	Definition	
Graph	A representation of a sequence of numbers	
Coordinate	A point in 2D or 3D space	
Axis	The frames of reference for coordinates	
Scale	The amount the axes increase by each time	
Interpret	Turn a graph into meaningful information, describe trends and patterns and explain their meaning	
Extrapolate	Continue a sequence to estimate a value from the pattern	
Interpolate	Estimate a value within the data range of the pattern	
Describe	Give a detailed account of the shape and features of a graph	

	Additional Resources
MathsWatch: <u>A21a</u> , <u>A21b</u>	

Corbett Maths: Videos 151 , 152 , 171 , 171a , 198a , ; Worksheets 151/2 , 171

Careers Focus - Where could this take you?

Scientists who work for Government agencies or national laboratories will analyse and interpret the information from graphs to test hypotheses and understand data.



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growth.

Curriculum Links - Coherence

Required Knowledge:

7.09 Graphs of linear equations

Applied to:

- 9F.04 Statistical diagrams
- 11F.03 Distance and velocity time graphs

Links across school:

- Interpreting graphs of climate (Geography)
- Interpreting graphs of variables (Science)



Day of the week

Conversion graphs

Year Ouarte

Key Concepts

Line Graph

Conversion graphs are straight line graphs that show a relationship between two units and can be used to convert from one to another. They are very useful to solve real-life problems.

Some conversion graphs can show a direct proportion between two units, for example, converting between two currencies to show an exchange rate, such as Pounds Sterling to US Dollars.



Useful Formulae and

Hints

7.10 Real life graphs

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- Read information from a time series graph
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- Draw a graph from a data table
- Compare two time series graphs
- Create a conversion graph from a conversion rate

GCSE Questions

- Check that any graphs don't have the common inconsistencies or misleading features.
- Are the axis scales consistent (do the numbers go up by the same amount each time)?
- Does the y-axis **start at zero**? Are the values
- equally spaced?

When describing trends remember to talk about

- The highest and lowest points
 Sections of the graph that are increasing or decreasing
 Any repeating patterns
- . Any **peaks** or **troughs**









Our students will:

- > read easily, fluently and with good understanding
- develop the habit of reading widely and often, for both pleasure and information
- acquire a wide vocabulary, an understanding of grammar and knowledge of linguistic conventions for reading, writing and spoken language
- > appreciate our rich and varied literary heritage
- > write clearly, accurately and coherently, adapting their language and style in and for a
- range of contexts, purposes and audiences
- use discussion in order to learn; they should be able to elaborate and explain clearly their understanding and ideas
- are competent in the arts of speaking and listening, making formal presentations, demonstrating to others and participating in debate.

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The aims of the sequence of learning are to ensure that all students:

- develop a wider range of reading strategies to extract meaning
- explore and explain contextual factors affecting the text/writer
- Identify and analyse use of language to create effects
- Write analytical paragraphs explaining use and impact on the reader.

Explore and identify how a text is structured

- Use prior knowledge of genre to predict narrative
- Identify and explain writer's purpose in creating the text.

Keyword	Definition
Symbolism	the use of symbols to represent ideas or qualities
Foreshadowing	be a warning or indication of (a future event).
Juxtaposition	the fact of two things being seen or placed close together with contrasting effect.
Insubordination	refusal to obey orders
Desertion	illegally leaving the armed forces
AWOL	(Absence without leave) walking out of barracks without permission
Tied cottage	a cottage owned by your employer that you live in on their land whilst you are employed by them
Class system	a system where social status is decided by which family you were born into

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TONE WORDS LIST POSITIVE NEGATIVE Sympathetic Worshipful Doubtful Frantic Wistful Reassuring Disrespectful Confused Ebullient Acerbic Threatening Proud Zealous Facetious Horror ondescending Placid Abhorring Forceful Self-assured Confident Mirthful Hopeless Evasive Passionate Grim Disliking Fervent ompassionate Optimistic Gloomy Pedantic Nostalgic Furious Disappointed Scholarly Forthright Belligerent Нарру Frustrated Sanguine Expectant Ambivalent Diabolic

Indifferent

Reflective

Romantic

Key Concepts

Context

Michael Morpurgo – Michael Morpurgo is an author, poet and playwright who is predominantly known for his children's novels such as War Horse (1982) and Private Peaceful (2003). His skill in 'magical story-telling' and vivid description has often been commended, most notably his depictions of World War I conditions and the Cornish coastline. Morpurgo served as the Children's Laureate from 2003 until 2005. Morpurgo has revealed that his fireside conversations with World War I veterans in Devon informed his writing of Private Peaceful

World War I – World War I, also known as the 'Great War', was a global war originating in Europe that took place from July 1914 to November 1918. It involved all of the world's major powers, opposing the Allies (including Russia, France, UK, and USA) against the Alliance (Germany, AustroHungary, the Ottoman Empire) Over 9 millions armed forces and 7 million civilians were killed in the war. Many more returned injured. The winter of 1916-17 was so cold that many lost fingers & toes to frostbite - trenches offered no protection.

Trench Warfare – The use of trench warfare significantly influenced the high death toll. Both sides dug deep defensive lines in the soil called trenches. Attacks involved going across No Man's Land (in the middle) where attackers were open to machine gun fire, mines, and shells. Even if successful, casualties were huge – No Man's Land was littered with bodies. Life in the trenches were awful, with disease and exposure rife. Men would often spend weeks at a time on the front line, where they would need to sleep, eat, and defecate close to the trenches.

'Desertion' and 'Cowardice' in WWI - Soliders were expected to stand and follow orders (even die for their country) irrespespective of their own beliefs/ ideas. As the war, however, quickly became the bloodiest in history, for many, the horror proved too much. Shellshock and insanity ran rife, and some abandoned their posts. Throughout World War I, the British military executed 306 of their own soldiers for desertion and cowardice. In 2006, the British government announced that all 306 soldiers will receive posthumous pardons.

Motifs and Themes

Relationships – Despite the cruelties and inequalities that the Peaceful family face, they remain resolute in their togetherness and their care for one another. Tommo quickly learns that he cannot truly trust anyone except his family, and in particular Charlie. In a world that seems determined to divide and break them, the brothers remain sheltered by their relationships with one another. In the end, Charlie pays the ultimate price for this, as he puts his family bonds ahead of military commands. Tommo tries to ensure that his bravery is not forgotten.

The Futility of War– Morpurgo aims to capture the harshness of war and the terror faced by the soldiers. Through Tommo and Charlie's experiences, a generation of young men are pressurised into enlisting, trained inadequately, and sent off to face horrors of which the world had never seen before. Morpurgo makes clear that the reasons for fighting in the war were lost at the front lines, as progressively younger men are wiped out. War continues to divide people, to change them forever, and I write about it both because I want people to understand the absolute futility of war, the "pity of war" as Wilfred Owen called it." (Michael Morpurgo)

Plot in 10 Quotes

- I won't dream it away. I mustn't, because every moment of it will be far too precious...Tonight, more than any other night of my life, I want to feel alive.' Tommo
- 'then Charlie would be there beside me, and everything would be all right again. Charlie always made things all right again.' Tommo
- Charlie could have left me there. He could have made a run for it and got clean away, but Charlie's not like that. He never has been.' Tommo
- I couldn't believe what he was saying. They hadn't told me. They'd been meeting in secret and neither of them had told me.' Tommo
- 'we both knew enough hurt had been done already, that more would only widen the rift between us and neither of us wanted that.' Tommo
- 'Charlie was stirring Hanley up unnecessarily, and was making things difficult for the rest of us.'
- 'even if I wanted to, I can't go with you because I'd have to leave Tommo behind, and I can't do that.' Charlie
- 'It wasn't a trial Tommo, they'd made up their minds I was guilty before I even sat down' Charlie
- 'They tell me he refused the hood and that he was singing when he died..' Tommo
- 'All I know is that I must survive. I have promises to keep.' Tommo

| Theories

Bewildered

Shell-shock - Shell-shock was a reaction to being constantly under bombardment from high explosives. It caused insanity and many physical problems such as being unable to stop shaking. Gas/chemical weapons - these were first used in WW1 and were seen as immoral by many. However, many did not see a difference between using gas and other forms of weapons. Propaganda - Propaganda was not new, but due to more efficient printing systems and the need to recruit more soldiers than in any other war, it was used more often. However, anti-war propaganda also increased.



Year 7 'Private Peaceful'

Retrieval Practice - M	odel Response and Assessment	Character Descriptions	
Assessment Questions will be linked to Creative Writing and Paper 1: Q1-4 Skills. The assessment objectives are as follows: P1Q1: A01- Inference and comprehension P1Q2: A02- Methods (language) P1Q3: A02- Methods (structure) P1Q4: A04- Look at and explore texts critically. Presenting an argument. P1Q5: A05- Clear communication and A06- Spelling, punctuation and grammar.		 Thomas 'Tommo' Peaceful – Tommo is the young narrator and central character in the novel. As he narrates, he is an underage soldier, fighting in France in WWI. He is scared and alone. He looks back on his earlier childhood memories, in which he has relied on his brother for guidance and protection. They have a joint-love of their childhood friend: Molly. It appears Tommo may have early PTSD or shellshock. Charlie Peaceful – Charlie is Tommo's older brother, and also acts as his protector. As a child, he has always looked out for his brother, and he now continues to do so as a soldier. By putting family loyalty first, Charlie faces the death sentence through a military court. Charlie is tough, yet strong, brave and righteous, caring for others (such as Molly and Tommo) before himself. He deserves better than the fate he is given. Big Joe – Big Joe, the eldest Peaceful brother, has learning difficulties which stemmed from early childhood meningitis. He is highly sensitive and unable to adequately communicate his thoughts. His brothers adore him and help to care for him. 	
Questions	Answers	at numerous times in the novel, and takes hard jobs to ensure that they are provided for. Molly – Molly is the girl with whom Charlie and Tommo have grown up. As a young girl, she is a bit of a tomboy, and engages in all of the	
P1Q1: List four things you learn about Thomas	a) Thomas is alone. b) Thomas is feeling alive. c) Thomas is led by Charlie. d) Thomas feels nervous.	 activities that the boys do. She is thrown out of her house by her parents when she becomes pregnant by Charlie, which forces her to g up quickly. She seems to hold strong feelings for both of the Peaceful brothers. The Colonel-represents upper class attitudes and power. The 'enemy' of working class people like the Peacefuls. Blackmails Charlie int joining up by threatening to throw them out of the cottage. Sergeant Hanley – Hanley demonstrates all that is wrong with the outlook and attitudes of many people at war. He lacks empathy or sensitivity, and his bullying of Tommo becomes even worse when he realises that Tommo is underage. When Charlie addresses this wi him, he is written up for subordination, rather than ceasing his behaviour. 	
P1Q2: How does Morpurgo use language to present Thomas' feelings about war?	Morpurgo possibly uses a pattern of adjectives such as 'heavy' and 'strange' to not only present Thomas' feelings of anxiousness about war and his fate but also Thomas' sense that nature is against him.	Career Focus - Where could this take you? As a journalist I investigate, collect and present information as a news story or article featured in a newspapers, magazines, radio, television and the internet. I have to research and conduct interviews to find ou background information. I can specialise in an area such as sports, politics, tra	
P1Q3: How does Morpurgo use structure to interest the reader?	The writer possibly uses juxtaposition between the innocence of Thomas in 'my heart is heavy' and the experience of Charlie in 'he's done everything and knows everything' to highlight the sense that Thomas is foregrounded as a character who experiences a feeling of injustice in life.		
P1Q4: A student once said 'Thomas Peaceful is	It can be argued that Thomas Peaceful is constructed by Morpurgo to be a character who is an innocent young man who struggles with war and is a victim because he is	etc.	
a true victim of war in this novel.' To what	seen as isolated during battle and 'huddled in his tent'. This imagery of 'huddled' maybe presents him as oppressed by war and metaphorically trapped as a victim by	Topic Links	Additional Resources
extent do you agree with the statement?	the battle around him.	This topic links to: • Self expression and religious beliefs in RE.	To further practise and develop you knowledge see: • AQA guidance on responses:
P1Q5:	 Write a narrative about a conflict. Or write a description of a solder's feelings in war. 	 The World War One focus in History. Previous novel study in English in Year 6 and you will cover novels later in Year 8 and onwards. 	https://filestore.aqa.org.uk/textbooks/sample/gcse- english/AQA-8700-8702-COLLINS-SAMPLE- CORE.PDF





Our students will:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.



Year 7 - Energy

The aims of the sequence of learning are to ensure that all students:

- to understand how energy is stored and transferred
- to be able to calculate energy efficiency

- to understand the different types of energy resources
- to be able to identify the different between renewable and nonrenewable energy sources

Keyword	Definition	Key Concepts	
Energy store	Type of energy. Energy is measured in Joules (J).	Energy Transfers	Energy Re
Kinetic energy	Anything moving has energy in its kinetic store (faster = more energy).	Example 1: Battery powered train START Energy transferred END	FOSSIL FUELS (NON-RENEWAB
Gravitational potential energy	Anything that has mass and is in a gravitational field (higher up = more energy).	Energy in chemical store in battery Energy in chemical store	Coal, oil and gas are all fossil fur They are formed from dead remains over millions of years.
Chemical energy	Anything that can release energy by a chemical reaction (examples include food and fuels).	Example 2: Person moving a book to a high shelf START Energy transferred END	They are burnt which produces thermal energy used to turn a generator and make electricity.
Elastic potential energy	Anything that can be stretched or compressed.	Energy in chemical store in muscles	+ Reliable + Releases energy quickly
Thermal energy	Every object has thermal energy (higher temperature = more energy).	Law of Conservation of Energy	+ Can be used in vehicles as fuel SOLAR PANELS
Energy transfer	When energy moves from one store to another.	The law of conservation of energy states that energy cannot be created or	(RENEWABLE)
Heat transfer	Energy transfer between hot and cold objects.	aestroyed, it can only be transferred from one store to another.	They use the sunlight to produce an electrical current.
Electrical transfer	Energy transfer when a charge (current) moves.	'wasted' by being transferred to the surroundings . Energy becomes stored in less useful ways, e.g. as thermal energy.	+ No pollution + No fuel costs + Can be used in remote
Radiation transfer	Energy transfer through light/sound.		locations
Mechanical transfer	Energy transfer when an object moves due to a force.	Energy Efficiency	WIND TURBINES (RENEWABLE)
Renewable	Naturally replenished (will not run out), for example solar panels and wind turbines.	How good a device is at transferring energy input to useful energy output is called <u>efficiency</u> . The more efficient a device is, the less energy it will waste.	Wind turns the blades which turns a generator, this produces electricity.
Non-renewable	Not naturally replenished (will run out), for example fossil fuels.	$EFFICIENCY = \frac{USEFUL \ POWER \ OUTPUT}{TOTAL \ POWER \ INPUT} \times 100$	+ No pollution + No fuel costs + Minimal running costs

esources

BLE)

iels.



- Releases carbon dioxide - Extraction can run landscapes



- Unreliable - Expensive to set up - Can only be used in daytime



- Unreliable - Spoils the view - Can only be used when it is windy



Year 7 - Energy

The aims of the sequence of learning are to ensure that all students:

• to understand how energy is stored and transferred

sie

• to be able to calculate energy efficiency

- to understand the different types of energy resources
- to be able to identify the different between renewable and nonrenewable energy sources

Retrieval Practice

	Sign and the second
Questions	Answers
What is kinetic energy?	Anything moving has energy in its kinetic store (faster = more energy).
What is thermal energy?	Every object has thermal energy (higher temperature = more energy).
What is elastic potential energy?	Anything that can be stretched or compressed.
What is gravitational potential energy?	Anything that has mass and is in a gravitational field (higher up = more energy).
What is chemical energy?	Anything that can release energy by a chemical reaction (examples include food and fuels).
What are the 4 methods of energy transfer?	Heat, electrical, radiation, mechanical.
What is unit of measurement for energy?	Joules (J).
What is the law of conservation of energy?	Energy cannot be created or destroyed; it can only be transferred from one store to another.
What does the efficiency tell you about a device?	How much of the input energy is transferred usefully and how much is wasted.
What does renewable mean?	It is naturally replenished (will not run out).
What does non-renewable mean?	It is not naturally replenished (will run out).
What are the disadvantages of using fossil fuels?	It is non-renewable so will run out, it releases carbon dioxide and extraction can ruin landscapes.
What are the advantages of solar panels?	It is renewable so will not run out, there is no pollution or fuel costs and has minimal running costs.

Career Focus - Where could this take you?



I am a welder. My job is to use high heat to fuse materials, creating strong, durable bonds between them. I must decide the best techniques to use on different materials to quickly create strong and safe joins. Welders are required in most sectors so my workplace could be in a workshop, in a factory, on a construction site, on a demolition site or even on an oil rig. Welding combines the mental satisfaction of exacting technical standards with the physical rewards of precise handcrafting.

Challenge Activities





Year 7 Cells

- The aims of the sequence of learning are to ensure that all students:
- to understand the structure of an animal, plant and bacterial cell including identifying organelles and their functions

Nerve cells

- to be able to describe how use a microscope and look at different cells under the microscope
- explain what specialised cells are and give some examples

Keyword	Definition	Key Concepts
Cell	Basic unit of life.	
Cell membrane	Controls the movement of substances in and out of the cell.	
Nucleus	Contains genetic information.	
Circular DNA	The genetic information found inside bacteria (without nucleus).	
Cell wall	Provides support to plant and bacterial cells.	
Cytoplasm	Jelly-like substance where chemical reactions take place.	Specialised
Mitochondria	Where respirations takes place. Releases energy.	Humans are <u>r</u>
Chloroplasts	Contains the green pigment chlorophyll, the site of photosynthesis.	not just one c are <u>specialise</u>
Vacuole	Contains cell sap.	They work tog in an organisr
Flagella	Hairlike structure that allows bacteria to move.	Image
Plasmid	Small circular ring of DNA.	A Seco
Specialised cell	Cells designed to carry out a particular role in the body.	949489
Function	The purpose for which something exists, its role.	
Adaptation	Features of living organisms that help them survive	



Cells Parts of a light microscope nulticellular. That means we are made of lots of cells, eyepiece lens cell. The cells in many multicellular animals and plants ed, so that they can share out the processes of life. objective arm lens gether like a team to support the different processes stage clips stage coarse m. light adjustment knob source Type of animal cell Function Special features fine base adjustment knob Red blood cells To carry oxygen · Large surface area, for oxygen to pass through Contains haemoglobin. which joins with oxygen · Contains no

Long

end

signals

· Connections at each

Can carry electrical

To carry nerve impulses to different

parts of the body

nui oxygen	
nucleus	Using a Light microscope
	• Prepare a slide.

- Plug in microscope and turn on light.
- Place slide on stage and hold with clips.
- Use lowest magnification objective lens to focus image.
- Then turn up the magnification by turning to

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Year 7 Cells

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- explain what specialised cells are and give some examples

Retrieval Practice

Answers
Cells are the basic building blocks of all living organisms.
Specialised structures that perform various jobs inside cells.
Contains genetic information (DNA) that controls cell activities.
To control what enters and leaves the cell.
Where chemical reactions take place.
The site of respiration - where energy is released.
To strengthen and support plant and bacterial cells.
Contains chlorophyll to absorb light energy for photosynthesis.
Nucleus, Cell membrane, Cytoplasm, Mitochondria,
Chloroplasts, Cell wall, Vacuole.
Eye piece, objective lens, stage, lamp, focusing wheel.
Making an image clear enough to be viewed under the microscope by using the focussing wheel.
Specialised cells are cells designed to carry out roles in the body.

Career Focus - Where could this take you?

I am a biochemist. My job is to investigate the chemical processes that take place in all living things such as bacteria, plants and people. My workplace is a laboratory at a University where I get to plan and carrying out scientific experiments. use lab equipment and publish my findings. Biochemistry has hugely benefited society, for example it has provided explanations for many diseases, helped with food production and improved human health!

Challenge Activities

cells

1.

2.

3.

4.

5.

6.



Topic Links	Ċ	Additional Resources
This topic links to:		To further practise and develop you knowledge see:
Scientific Skills		
Organisation		Educake - https://www.educake.co.uk/
 Energy 		BBC Bitesize -
We will also be practising how to		https://www.bbc.co.uk/bitesize/guides/z9hyvcw/revision/3
 Calculate area and volume 		YouTube Cognito -
 Write descriptively to compare cells 		https://www.youtube.com/watch?v=qHkUOIC8Nbo&list=PLidqqI
, , ,		GKox7X5UFT-expKluR-i-BN3Q1g&index=2

Newsome Academy Everyone Exceptional Everyoary Vear 7 Substances & Particles

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The aims of the sequence of learning are to ensure that all students:

- to understand the states of matter and how we use the particle model to draw them including how states change
- to understand how we can separate substances using filtration, evaporation, chromatography and distillation

Keyword	Definition	Key Concepts					
Solid	Solid objects can hold their shape.		Solid	Liquid	Gas	Changes of State	
Liquid	Liquids can flow but cannot be compressed (squashed).	particle model diagram		A.		Substances can change state; from	
Gas	Gases can flow and expand to fill a container.	particle arrangement	regular structure no space between particles	irregular structure very little space between particles	irregular structure large space between particles	to a gas (evaporating) gas to liquid (condensing) and liquid to solid (freezing).	
State of Matter	The states at which substances can exist, either solid, liquid or gas.	volume and shape	fixed volume fixed shape	fixed volume shape changes to fill	volume increases to fill capacity shape changes to fill	Sublimation is when a substance changes from a solid directly to a gas.	
Particles	A small portion of matter usually drawn as a circle.		no	yes	capacity yes	The arrangement of particles changes when the substance	
Properties	The characteristics of a substance.	able to flow	(forces between particles are very strong and hold them in fixed positions)	(forces between particles are weak and particles slide over one another)	(forces between particles are very weak and particles move randomly and rapidly)	changes state.	
Melt	When a substance changes from a solid to a liquid.	density	high cannot be compressed	high cannot be compressed	low can be compressed	Distillation	
Freeze	When a substance changes from a liquid to a solid.		(particles are already tightly packed)	(particles are already tightly packed)	(particles are forced closer together)	Distillation can be used to separate a solvent from a solution. The liquid is heated and	
Condense	When a substance changes from a gas to a liquid.	particle energy levels	low (particles vibrate around a fixed point only)	moderate (particles can move and flow but slowly)	high (particles moving rapidly and freely)	salt water water water collect a liquid or separate 2 liquids with	
Evaporate	When a substance changes from a liquid to a gas.	Filtration and Crystallisation Distination is used to entire conect anglito of separate 2 liquids with different boiling points. E.g. collect pure water from salt water or separating water and ink.			different boiling points. E.g. collect pure water from salt water or separating water and ink.		
Diffuse	When particles of a substance spread out.	Initure Filtration can be used to separate an insoluble solid from a liquid by passing the mixture through a funnel and filter paper and the liquid is called the filtrate. For example separating sand and water. Evaporation can be used to separate a soluble solid from a liquid by heating the solution and allowing the liquid to evaporate. The soluble solid will be left behind and will crystallise. For example separating salt and water. Initure					
Filtration	Separating insoluble solid from liquid.				piece of wood paper		
Distillation	Separating a solvent from a mixture.				water start and end of the colours are separated because they have varying solubilities.		
Chromatography	Separating a mixture of soluble substances.				The inks are carried up the filter paper (stationary phase) by a solvent (the mobile phase).		
Distillation Chromatography	Separating a solvent from a mixture. Separating a mixture of soluble substances.				The inks are carried up the filter paper (stationary phase) by a solvent (the mobile phase).		

Newsome Academy Everyone Exceptional Everyony Year 7 Substances & Particles

The aims of the sequence of learning are to ensure that all students:

- to understand the states of matter and how we use the particle model to draw them including how states change
- to understand how we can separate substances using filtration, evaporation, chromatography and distillation

Retrieval Practice

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Retrieval Practice	Sector Contraction of the sector of the sect
Questions	Answers
How are particles arranged in solids?	A regular structure with no space between particles
How are particles arranged in liquids?	An irregular structure with little space between particles
How are particles arranged in gases?	An irregular structure with large spaces between particles
What are the properties of a solid?	Fixed volume and shape that cannot flow or be compressed
What are the properties of a liquid?	Fixed volume, can flow/change shape, can't be compressed
What are the properties of a gas?	No fixed volume or shape, can be compressed
What is happening when a substance melts?	The particles gain energy and change from solid to liquid
What is happening when a substance freezes?	The particles lose energy and change from liquid to solid
What is happening when a substance evaporates?	The particles gain energy and change from liquid to gas
What is happening when a substance condenses?	The particles lose energy and change from gas to liquid
What equipment is used during filtration?	Funnel, filter paper and conical flask
How does filtration work?	Insoluble solids remains in paper and liquid passes through
What equipment is used during crystallisation?	Evaporating dish and bunsen burner
How does crystallisation work?	Liquid evaporates when heated and soluble solid crystalises
What equipment is used during distillation?	Round bottom flask, thermometer and condenser
How does distillation work?	Substances are boiled (evaporated) then cooled (condensed) they separate because they have different boiling points

Career Focus - Where could this take you?



I am an alcohol and drug technician. My job is to carry out alcohol and drug testing for workplaces, the police force and drug rehabilitation programmes. My main workplace is a laboratory where I test urine samples using techniques such as immunoassay and gas chromatography to help me identify the type and the amount of substances in a person's system. Chromatography is used for many applications and affects everything from what you eat to how we fight disease.

Challenge Activities

1.

- Make flashcards for the definitions and retrieval practice questions.
- Make a mindmap for this topic. Remember to include keywords and the links between information. 2.
- Research the real life applications for the different separating techniques. Who uses them in which 3. careers?
- Make a 3D model of the different states of matter solid, liquid and gas. 4.
- Find out more about alcohol and drug technicians and what they do. What gualifications would you 5. need for this career? What is the average salary?
- Construct a fact file about a famous historical scientist that helped us to understand more about 6. substances and particles.

Topic Links	Additional Resources
This topic links to: • Scientific Skills	To further practise and develop you knowledge see:
Chemical reactions	Educake - https://www.educake.co.uk/
• Energy	BBC Bitesize -
We will also be practising how to	https://www.bbc.co.uk/bitesize/topics/zkr4jxs/articles/z3qyydm
 Use numerical data to identify states of matter 	YouTube Cognito -
• Present using V21 skills	https://www.youtube.com/watch?v=vi_SJBnxmHo&list=PLidqqIG Kox7WeOKVGHxcd69kKqtwrKl8W&index=5







Our students will:

- understand and respond to spoken and written language from a variety of authentic sources
- speak with increasing confidence, fluency and spontaneity, finding ways of communicating what they want to say, including through discussion and asking questions, and continually improving the accuracy of their pronunciation and intonation
- can write at varying length, for different purposes and audiences, using the variety of grammatical structures that they have learnt
- > discover and develop an appreciation of a range of writing in the language studied.

Newsome Academy Everyone Exceptional Everyday	ear 7 Bonjour!	The aims of the sequence of learning a Can give their name age and birthe Can say how many brothers and si Can describe their pets.	are to ensure that all students: day. sters they have.	 Can say what the Can describe their Can use avoir Can use être. 	y like and dislike usi r personality.	ng cognates.
Keyword	Definition	Key Concepts				A CONTRACT OF C
Comment ça va?	How are you?	Un chat	Un lapin 🛛 🖌	Un perroq	ue 🐧	Une souri
Comment t'appelles- tu?	What is your name?					
Ça s'ecrit comment?	How do you spell it?					
Quel âge as-tu?	How old are you?	Un serpe	Un hamster 🚱	Une araigr		
C'est quand ton anniversaire?	What date is your birthday?	Verbs			Most adjectiv 'agree' with t	es change their ending to he noun.
Tu as des frères et soeurs?	Do you have any brothers or sisters?	<i>aimer</i> (to like) is a regular <i>j'aime</i> I like	-er verb. être (to be je suis) Iam	masculine	feminine amusante
Qu'est-ce qu'il y a dans ta salle de classe?	What is there in your classroom?	<i>tu aimes</i> you like <i>il/elle aime</i> he/she likes	tu es il/elle est	you are he/she is	arrogant bavard	arrogant <mark>e</mark> bavard <mark>e</mark>
Tu aimes <u>le foot</u> ?	Do you like football?	avoir (to have)	To make it nega ne pas to m	ative, use Jake a 'sandwich'	fort	forte
Tu est comment?	What are you like?	<i>tu as</i> you have	around the vert). tràs grand(a)	grand intelligent	grande intelliaente
Ou'est-ce que tu fais?	What do you do?	J'ai deux frères. I have two	brothers.	ll.	méchant	méchant <mark>e</mark>
		You also use avoir with age.	assez auite	trop too	patient	patiente
		Quel âge as-tu ? How old a J'ai onze ans. I am 11 ve	re you? ears old. très very	un peu a bit	petit	petite
		J -				

timide*

timide

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Tu est comment?

Qu'est-ce que tu fais?

Year 7 Bonjour!

The aims of the sequence of learning are to ensure that all students:

- Can give their name age and birthday.
- Can say how many brothers and sisters they have.

- Can say what they like and dislike using cognates.
- Can describe their personality.
- Can use avoir
- Can use être.

• Can describe their pets. **Retrieval Practice** D.C. Questions Answers Comment ça va? Ca va bien merci et toi? Comment t'appelles-tu? Je m'appelle Sarah. Ca s'ecrit comment? Ça s'ecrit ess- ah – air – ah – ash. Quel âge as-tu? J'ai <u>onze</u> ans. Mon anniversiare c'est le douze novembre. C'est guand ton anniversaire? Tu as des frères et soeurs? J'ai deux frères et une soeur. Qu'est-ce qu'il y a dans ta salle Dans ma salle de class il y a des chaises et des de classe? tables. Il y a aussi un tableau interactif, Tu aimes **le foot**?

Oui j'aime le foot mais je n'aime pas la

Je suis assez grand et tintelligent.

J'aime jouer et tchatter en ligne.

gymnastique.



Career Focus - Where could this take you?

I am a marketing officer. I create ideas to advertise products and services. I use languages to communicate with

Challenge Activities

customers overseas and I do

research to see what sells



- 1. Create a poster all about you. All Charlen detail as you can. Choose some pictures to decorate your work.
- 2. Record a short paragraph about yourself.
- 3. Make a calendar with the French months and add your birthday and other important dates.
- 4. Make a fact file about France or a French speaking country,

Topic Links	∂	Additional Resources
This topic links to: Bienvenue. Hobbies Family and friends.		 To further practise and develop you knowledge see: Language nut. Oak academy. Click here for some additional exercises.





Humanities

Our students will:

- know and understand the history of these islands as a coherent, chronological narrative, from the earliest times to the present day: how people's lives have shaped this nation and how Britain has influenced and been influenced by the wider world
- understand historical concepts such as continuity and change, cause and consequence, similarity, difference and significance, and use them to make connections, draw contrasts, analyse trends, frame historically-valid questions and create their own structured accounts, including written narratives and analyses
- understand the methods of historical enquiry, including how evidence is used rigorously to make historical claims, and discern how and why contrasting arguments and interpretations of the past have been constructed
- develop contextual knowledge of the location of globally significant places both terrestrial and marine – including their defining physical and human characteristics and how these provide a geographical context for understanding the actions of processes
- understand the processes that give rise to key physical and human geographical features of the world, how these are interdependent and how they bring about spatial variation and change over time



Year 7 About the UK

The aims of the sequence of learning are to ensure that all students:

- Explain how the population is spread around the UK
- Describe the different aspects of the UK and its economy
- Explain London's location and how it has grown
- Evaluate the UKs links to the rest of the world





Year 7 About the UK

The aims of the sequence of learning are to ensure that all students:

- Explain how the population is spread around the UK
- Describe the different aspects of the UK and its economy
- Explain London's location and how it has grown
- Evaluate the UKs links to the rest of the world

Retrieval Practice	
Questions	Answers
Which area of the UK has the highest population density and why?	The South East of the UK (around London) as the land is flatter, a warmer climate and good transport links to Europe
Which areas of the UK have the lowest population density and why?	The Highlands of Scotland (North West Highlands) as the climate is cooler and the land is steep and difficult to build on
Why might people want to live in an urban area?	Better job opportunities more places of entertainment
Which sector of the economy employs the most people?	Tertiary with 81%
Name 3 jobs associated with the tertiary sector	Teacher, Nurse and Firefighter
Give 3 ways we are linked to the rest of the World	Members of the UN, 0.7% of our income goes to countries who are poorer and 40 million people visit every year from other countries
Why do you think 40 million tourists a year visit the UK?	The history of the country and the castles/tourist attractions like Buckingham Palace and Houses of Parliament
Who founded London and what was it called?	The Romans - Londinium
Why do you think London is an International city?	Many international companies and banks have headquarters there, it also has 2 huge airports (Heathrow and Gatwick) to link to other countries.

Career Focus - Where could this take you?



Aid Worker

We help people in overseas countries affected by man-made and natural disasters like wars, outbreaks of disease and earthquakes. We work with organisations and government officials in affected areas, to roll out healthcare or education programmes and work on building or engineering projects.

https://www.bbc.co.uk/bitesize/guides/z332sg8/revision/7

Challenge Activities

- Design a guiz based on the UK. Include at least 10 guestions plus their answers Create top trumps cards for 6 cities in the UK - include size, population, age, height above sea level and distance from London Create an advert (on paper or online) encouraging people to visit London. You must ۲ include at least 4 tourist destinations ∂ 18) **Additional Resources Topic Links** To further practise and develop your knowledge see: This topic links to: Changes to the UK economy (Bitesize) -• History and the Roman Invasion of Britain https://www.bbc.co.uk/bitesize/guides/zqhvmnb/revision/1 Geography Half term 1 the physical landscape and UK population change (Bitesize) population https://www.bbc.co.uk/bitesize/guides/z334nbk/revision/1 • UK economy & links to the world (Bitesize)
- English producing an advert (persuasive writing)
- CAPE foods, technologies and music produced in the UK

Newsome Academy Everyone Exceptional Everyday

Year 7: The Roman Army

The aims of the sequence of learning are to ensure that all students: • Evaluate all aspects of life in the Roman Army. Including; Recruits,

- Explore the legend of how Rome began.
- Describe how the Roman Empire developed.

Evaluate all aspects of life in the Roman Army. Including; Recruits, Weapons & Tactics, Organisation, Punishments & Rewards.

> 1995 1995 1995 1995 1995

 Explain why the Roman Army was so successful supported by evidence.

Keyword	Definition	Key Concepts			
Chronology	Arranging events or dates in the order they took place.	Birth of Rome (Myth and Legend) Legend has it that an ancient land called Alba Longa was ruled by			
Legend / Myth	A story believed to be fact, but over time has taken on fictional elements.	good king Numitor . He had a daughter called Rhea Silvia who was imprisoned by her Uncle Amulius as he wanted to be King. Whilst imprisoned in the temple of Vestal Virgins , Rhea Silvia became			
Romans	Citizens of Ancient Rome and the Roman Empire.	pregnant by Mars (God of War) and gave birth to twin boys, Romulus and Remus . Amulius ordered that the twins be put to death, so a servant placed the twins in a bask them adrift on the river Tiber . The twins did not drown and were instead found by			
Expansion	How a state or country grows by taking over other states or countries.	a she wolf who raised them until they were taken in by a shepherd and his wife. They went on become fierce soldiers who defeated Amulius and gave the throne back to Numitor. They went to build their own city. However, Romulus killed Remus in a fierce fight and named the city after bimcolf.			
Invasion	Attacking another state or country and its people on their own land.				
Empires	A group of territories controlled by another country and one ruler.	GERMANICUS BRITANNIA GERMANIA			
Emperor	The ruler of an Empire.	GALLIA DAGIA PONTUS EUXINUS ARMENIA Woolien_			
Legion	A large section of the Roman Army made up of 5000 soldiers.	ATLANTICUS TTALIA ASIA SYRIA Groin Protection			
Centurion	Responsible for training the soldiers and making sure they obey orders.	MEDITERRANEUM ARABIA SWORD			
Legionary	A soldier from a Roman tribe (a citizen of Rome).	The Roman Empire - 2nd Century AD			
Auxiliary	A soldier from lands conquered (not a citizen of Rome).	Sandals-			
Tactics	Carefully planned actions and strategies to achieve a specific goal.	Expansion of the Roman Empire: The Roman Empire did not begin as the mighty Roman Empire that we know today. They were actually defeated many times by other groups and tribes within Italy.			
Formations	The arrangement of soldiers and weapons to act as a unit.	paid them a lot of money to go back north. From 340 BC - 275 BC , the Romans defeated the Etruscans (neighbours and friends), the Samnites (southern Italy) and the Grapk cattlers in the parth (the Purrhis war). W(are with Cathare (North Africa)			
Sources	Different types of evidence used to study the past. (See Half-Term 1).	lasted 118years from 264 - 146 BC and became known as The Punic Wars. Once the Carthaginians had been defeated Rome had control over the whole region. Now they could expand across Furphe. North Africa and the Middle Fast			
Successful	Achieving a desired aim or result.	swallowing up other countries.			



Newsome Academy Everyone Exceptional Everyday Year 7: The Roman Army

The aims of the sequence of learning are to ensure that all students: • Evaluate all aspects of life in the Roman Army. Including; Recruits,

- Explore the legend of how Rome began.
- Describe how the Roman Empire developed.

- Evaluate all aspects of life in the Roman Army. Including; Recruits, Weapons & Tactics, Organisation, Punishments & Rewards.
- Explain why the Roman Army was so successful supported by evidence.

Retrieval Practice

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Questions	Answers
Which part of the Romulus and Remus story do you think is fact and which part do you think is fiction?	
What animal helped Hannibal defeat the Romans in 218BC?	
What was the name given to the Commander of a Roman Legion?	
Tell me two qualities a Legionary had to have to join the Roman Army:	
Write down two pieces of equipment a Roman Legionary had – in Latin!	
Tell me one tactic and one formation the Romans used which were successful:	
List as many advanced weapons as you can that the Roman Army had:	
What did the Roman soldiers like to do when they were 'off-duty'?	
Tell me two 'rewards' of being a Roman soldier and two possible 'punishments':	
In your opinion, why was the Roman Army so successful? Explain	



Career Focus - Where could this take you?

I am a Recruitment Consultant: My job is to attract candidates for various roles by creating job adverts and matching them to temporary or permanent positions with different companies. I need to check over their job application to make sure they are right for the business. I must carefully read their information, analysing as I go to ensure I make the correct choice. Then I need to interview them to check they have the key qualities and skills needed for the role.

Challenge Activities

- 1. Research a Roman settlement in Britain and produce an information leaflet about it. You must include true historical facts and images.
- 2. Research key battles the Romans fought to expand their Empire and produce a PowerPoint to explain what happened. Include the facts (dates, events etc.) and images.
- 3. Produce a display piece of a Roman Soldier this could be drawn, chalked, painted or modelled and either take a photo of your creation or bring it along to your History teacher. Don't forget to add labels detailing what their weapons and armour were called.

Topic Links	Additional Resources
 This topic links to other humanities topics such as: Roman Society The makeup of the UK Migration 	To further practise and develop you knowledge see: https://www.historic- uk.com/HistoryMagazine/DestinationsUK/RomanSites/
 We will also be practicing how to: Complete a job application form. Decide on the utility of a source. 	https://www.historyhit.com/the-best-roman-sites-in- britain/ https://www.worldhistory.org/collection/50/battles-of-the- roman-republic/

Newsor Acaden Everyone Exceptional Ev	ne ny Year 7 Hinduism - Key bo	The aims of the sequence of learning ar Consider global context of Hinduism Show understanding of the 3 main a Explore the meaning & the symbolis	e to ensure that all students: & its' origins in India spects of God (Trimurti) m behind krishna, Ganesh & • Discuss & describe how everyday life • Know that in Hinduism t • Explore the key texts in	Hindu beliefs are part of their there are 3 main sources of authority Hinduism
Keyword	Definition	Lakshmi • Understand the beliefs of the cycle c	of Samsara & Moksha	
Dharma	Means religious duty but also refers to the Hindu code of conduct and way of life.	Key Concepts		
Reincarnation	Most Hindus believe in reincarnation – the idea that death, the soul is reborn into a new life.	Sanatana Dharma This is the more accurate name for the religion and way of life that is	The Ramayana The Ramayana is a Hindu holy book and tells the story of Prince Rama and his wife Sita. They are	Vishnu & Avatars Vishnu is believed to have visited earth in living forms
Karma	The belief that actions in this life will have a consequence for a persons' rebirth.	belief system that began around 5000 years ago in India. The Hindu	banished to live in the forest for 14 years but Sita is kidnapped by the	(AVATARS) to destroy evil. Some avatars were in
Brahman	Many people misunderstand Hindu beliefs about God, who can be seen in many forms. The different forms of God are referred to as deities. Brahman is often represented through the Aum symbol.	Dharma has evolved over time and there is great deal of diversity within the religion. It is the 3 rd largest religion in the world, with around 750 million followers.	demon king Ravana. With the help of the monkey general Hanuman, Rama & his brother Lakshman rescue Sita and kill Ravana. They return home to the kingdom of	human. Rama & Krishna are the most well known and popular incarnations of Vishnu.
Atman	Hindus believe that all living things have a soul (an atman). It is the soul that is reborn after death.	One God in many forms Hinduism teaches that there is one God (Brahman) with many forms. Brahman is an energy that fills the	Ayodnya and Rama becomes king. Rama is no ordinary human, he is an avatar of the God Vishnu.	
Good & Evil	According to Hindu scriptures there is constant struggle between good & evil, order & chaos, light & darkness. The deities are believed to uphold order whilst demons are said to be trying to disrupt it.	universe and is far too complex for the human brain to comprehend. Hindus understand Brahman through the many deities of Hinduism.	The Trimurti The 3 main aspects of Brahman are known as	Shaqavad Gita
Ahimsa	Non-violence		the Trimurti (tri=3, murti = an image of God).	
Brahmin	A Hindu priest		I hese are: Brahma – the creator	
Incarnation	A living form of God; God in the flesh		Vishnu – the protector	
Ramayana	A Hindu holy book			



The aims of the sequence of learning are to ensure that all students:

- Consider global context of Hinduism & its' origins in India
 - Show understanding of the 3 main aspects of God (Trimurti)
- Explore the meaning & the symbolism behind krishna, Ganesh & Lakshmi
- Understand the beliefs of the cycle of Samsara & Moksha
- Discuss & describe how Hindu beliefs are part of their everyday life

- Know that in Hinduism there are 3 main sources of authority
- Explore the key texts in Hinduism



Hinduism Beliefs



Beliefs

- Extremely Diverse → Everyone has different beliefs
- Agree → Main Ideas Dharma→ Ethics/Duties
 - Samsara -> Continuing Cycle → Life, Death, Rebirth
 - Karma → Action and Reaction
 - Moksha → Liberation from Samsara Yogas → Paths or
 - Practices



Religious teachings	Key Teachings
"God is one, but wise men call it by many names." (Rigveda)	Reincarnation is an important part of
"Great indeed are the Gods who have sprung out of Brahman." (Atharva Veda)	Hindu teaching. It is the belief that when you die your soul (atman) is reborn. This
<i>"I will come forth for the protection of the good For the destruction of evil doers For the sake of establishing righteousness For this purpose I am born from age to age." (Bhagavad Gita)</i>	is called the Law of Samsara. Mahatma Gandhi was a very influential Hindu who practised Ahimsa (non violence).
"You have violated dharma and punishment will come to you more quickly than you think. You don't know Rama; he is not what you imagine him to be. You speak of the sea being an obstacle between him and me. But I say to you, Ravana, even if an ocean of stars lay between us, my Rama would come to	There are hundreds of Hindu Gods and Goddesses, the most significant being the Trimurti; Brahma, Vishnu and Shiva.

Overview

Hindus are the followers of the religion of Hinduism.

Hinduism is the oldest of the world religions we study, about 6000 years old.

Hindus believe in reincarnation, the belief that after death the soul is reborn into a different form.

Hindus worship in a Mandir but may also have shrines in the home.

Hindu sacred texts are called the Vedas.

Hindus believe in one Great Power called Brahman. Brahman is worshipped through many other Gods and Goddesses called Deities.

nundreds of Hindu Gods and
s, the most significant being
ti; Brahma, Vishnu and Shiva.
ieve that live involves a series

Hindus bel of duties called Dharma.

find me" (Sita to Ravana in the Ramayana)

Newsome Academy Everyone Exceptional Everyday	ear 7 Hinduism – Key Beliefs	 The aims of the sequence of learning are to ensure that all students Consider global context of Hinduism & its' origins in India Show understanding of the 3 main aspects of God (Trimurti) Explore the meaning & the symbolism behind krishna, Ganesh 8 	 Discuss & describe how Hindu beliefs are part of their everyday life Know that in Hinduism there are 3 main sources of authority Explore the key texts in Hinduism 	
Retrieval Practice		 Lakshmi Understand the beliefs of the cycle of Samsara & Moksha 		
Questions	Answers	Career Focus - Where could this take you?		
Where did Hinduism start?	Hinduism originated from the Indus Valley. Most scholars believe that it started somewhere between 2300B.C and 1500B.C in the Indus Valley, near modern day Pakistan.		I am a community development worker and it is my role to help communities to bring about	
What is meant by one God in many forms?	Hindus worship one Supreme Being called Brahman though by different names. This is because the people of India, with many different languages and cultures have understood the one God in their own distinct way. Supreme God has uncountable divine powers.		social change and improve the quality of life in their area. I act as a link between communities and a range of other local authorities and voluntary providers	
What is a deity?	A God or a Goddess.	Challenge Activities		
Who was Krishna?	Krishna, worshipped as the eight incarnation (avatar) of the Hindu God Vishnu.	 What makes something a religion? How might a religion and religious life change over time? Should religion and religious life change with the times? 	When answering these questions make sure you can justify your point with clear examples and quotes.	
Name the three gods associated with Brahman	The three Gods which are associated with Brahman are; Brahma, Vishnu and Shiva.	What do Hindus believe about God and why are Hindu beliefs so often misunderstood? Create a leaflet for someone to explain the key beliefs of Hinduism Don't forget! Point		
What is Samsara?	Samsara is the process of rebirth in Hinduism. There is no clear beginning or end.	Research the history of the Indus Valley and find facts on the early	civilization of Hinduism. Evidence (Quote)	
What is the difference between	Samsara is the cycle of birth and rebirth (or reincarnation)	Topic Links	Additional Resources	
	Moksha is liberation from the cycle of Samsara.	This topic links to other RE topics such as • Ethics – Animal Rights	To further practise and develop your knowledge see:	
What are the 3 main sources of authority in Hinduism?	The three main sources of authority in Hinduism are; The Brahmanas – rituals and prayers to guide priestly duties and rituals. The Aranyakas – this involves worship and meditation. The Upanishads – the mystical and philosophical teachings of Hinduism.	 Sikhism Buddhism We will also be practising how to Argue a point and practise our Voice 21 Participate in debates Write PEE sentences/how to answer exam questions 	https://www.hinduismfacts.org/basic-beliefs-of-hinduism/	



Computing

Our students will:

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- are responsible, competent, confident and creative users of information and communication technology

 Newsome Academy Prevente Exceptional Everycase Newsome Prevente Exceptional Everycase Newsome Prevente Exceptional Everycase Newsome Describe the dangers of using technology Newsome Evaluate an e-safety resource aimed at primary school may experience when using the internet Newsome Evaluate an e-safety resource aimed at primary school students 			
Keyword	Definition	Key Concepts	
E-Safety	The safe and responsible use of technology	B SPEC Safe by being careful not to give out personal information – such as your full name, email address, phone number, home address, photos or school name – to people you are chatting with online.	WHAT IS Cyberbullying?
Cyber bullying	The use of electronic communication to bully a person, typically by sending messages of an intimidating or threatening nature	Image: A comparison of the comparis	Sending threatening messages
Pop-up message	A message that appears on your browser or desktop designed to grab the users attention	CP RELIABBLE Information you find on the internet may not be true, or someone online may be lying about who they are.	Using online platforms to spread false accusations Hacking into someone's social
Password	A combination of characters that allows access to a computer system or service	Tell your parent, carer or a trusted adult if someone or something makes you feel uncomfortable or worried, or if you or someone you know is being bullied online. You can report online abuse to the police at www.thinkuknow.co.uk	support
Error Message	Information displayed on a computer system when an unexpected problem occurs	STOP	 Give the person being bullied a supportive message to let them know they're not alone Encourage them to talk to someone they can trust Give the person being bullied a positive distraction from
Smart Devices	An electronic gadget that is able to connect, share and interact with its user and other smart devices	 Take time out before getting involved, and don't share or like negative comments Try and get an overview of what's really going on Check the community guidelines for the site you're on 	 the situation SPEAK Ask an adult or friend that you can trust for advice Use the report button on the social platform it's

Hacking

The gaining of unauthorised

access to data in a system or

computer system

• Speak to one of the charities set up to help with situations like this, such as Childline

happening on

Newsome Academy Everyone Exceptional Everyday

The aims of the sequence of learning are to ensure that all students:

- Describe what cyber bullying is and how to deal with it
- Describe how to safely deal with a some different situations that you may experience when using the internet

Describe the dangers of using technology

Evaluate an e-safety resource aimed at primary school students

Retrieval Practice



Questions	Answers
What does the term 'Cyberbullying' mean?	The use of electronic communication to bully a person, typically by sending messages of an intimidating or threatening nature.
Why should you not post your real name online?	It becomes possible to find out some personal details about you, such as, your home address, age and telephone number.
Why should you always update your virus checker when asked to do so?	Your computer will not be protected against the newest threats. This will leave your computer vulnerable to attacks.
What are the dangers of using free public Wi-Fi?	As you are connecting to an unsecure internet connection, your computer will be easier to hack. Hackers can access every piece of information your sending out on the internet and also access the files on that computer, and any other connected devices.
What would you do in the following situation? You click on a link that loads up a website with unsuitable and inappropriate content.	Switch my monitor off and tell my parent or carer – they help you to block the website to stop it from loading up again.
What advice would you give to somebody to stay safe when playing online games?	Disable the chat feature, if that's not possible, only play and talk to people you know in real life and play where your parents can hear the conversations.
What are the dangers of using technology in our everyday life?	Although technology can be used to help make our lives easier, it can result in a lack of privacy, increased chances of your devices being hacked and an over-reliance of technology making it difficult to do things that have become automated or not required to do manually.



I am a **cyber security engineer** and it is my job to identify any threats or vulnerabilities in systems or software. I have to be confident in trouble shooting problems and testing systems.

Challenge Activities

- Create a poster on MS PowerPoint that includes the following details: definition of cyberbullying, advice on what you should do if somebody was being cyberbullied and what you think we can do in the future to help stop cyberbullying in our school.
- 2. Do you agree or disagree with the following statement? You must back up your answer with reasons and examples. "People under the age of 14 should not be allowed to use the internet without adult supervision".
- 3. Create a short vlog about which new technologies you think could create safety issues for children in the future? Give advice on how you could tackle these problems.

Topic Links	Additional Resources
This topic links to:	To further practise and develop your knowledge see:
 Computing Curriculum: Understand a range of ways to use technology safely, respectfully, responsibly and securely 	 www.childline.org.uk www.thinkuknow.co.uk stopcyberbullying.org
 English and RSE (being a responsible citizen and using language appropriately) 	





Our students will:

- > produce creative work, exploring their ideas and recording their experiences
- > become proficient in drawing, painting, sculpture and other art, craft and design techniques
- > evaluate and analyse creative works using the language of art, craft and design
- > know about great artists, craft makers and designers, and understand the historical and
- cultural development of their art forms.
- develop competence to excel in a broad range of physical activities are physically active for sustained periods of time engage in competitive sports and activities
- lead healthy, active lives.



Ø.,...

The aims of the sequence of learning are to ensure that all students:

- Describe multiple methods for mark making
 Describe complementary colours

• Synthesise a 3D drawing by employing mark making techniques

Keyword	Definition	Key Concepts	र्श्वहे स्वति स इति स्वति स
Colour	What you see when light reflects off something. Red, yellow and blue are primary colours	<u>Mark Making</u> describes the different lines, dots, marks, patters we create in an artwork. It can be loose and gestural or controlled and neat. <u>Mark Making</u> can be used to create <u>texture</u> in an artwork.	<u>Grades of Pencils</u> Pencils come in different grades, the softer the pencil, the darker the tone. H = Hard B = Black
Line	A mark which can be long, short, wiggly, straight etc		6H 5H 4H 3H 2H H F
Tone	How light or dark something is		HB B 2B 3B 4B 5B 6B In art the most useful pencils for shading are B, 2B and 4B. If your pencil has no grade it is likely to be HB.
Texture	How something looks or feels, e.g. rough or smooth	hatching	WARM Red-violet COLD Becontary Red Finary Blue-violet Finary Blue-violet Finary
Pattern	A symbol or shape that is repeated		Crange Blue-green Breatary
Shape	A 2D area which is enclosed by a line, e.g. a triangle	Making something look 3D To provont objects looking flat, a range of tonal shading	s is accontial to make them appear 2D
Form	Something which has 3 dimensions, e.g. a cube, sphere or sculpture	Shading with the form will help to enhance the 3D surface	pear flat.

Newsome Academy Vear 7 Art Basic Skills

The aims of the sequence of learning are to ensure that all students:

- Describe multiple methods for mark making • Describe complementary colours
- Synthesise a 3D drawing by employing mark making techniques

Retrieval Practice





I am a magazine art director and my job is to put together the illustrations and photographs for my magazine to ensure that the articles look interesting and people purchase our magazine

Challenge Activities



18

1. Draw an object using your mark making techniques to make it appear to be 3D.

2. Create a complementary colour wheel

Topic Links	Additional Resources
This topic links to:	To further practise and develop you knowledge see:
 Maths – ratios of mixing paints to make various colours 	Here you will find why art education is important from
Science – accurate observation skills	artists, young people and major cultural figures.



Year 7 Basic Skills Dance by Chance Cunningham and Cage

ne aims of the sequence of learning are to ensure that all students:
Define and spell key elements apply key elements in performance

- Describe elements in a performance
- Apply dance skills and techniques

- perform with timing, extension and fluency.
- develop dance by using choreographic devices.
- Demonstrate leadership skills



Key Concepts



Merce Cunningham



Cunningham technique focuses on the 5 movements of the back; tilt, twist, curve, arch and straight. He also invented chance choreography which used random methods to determine the movements, staging and music.



- mirroring this technique requires dancers to do the same travel, jump, shape or balance at exactly the same time
- leading and following these movements require one dancer to lead and the other partners to follow
- meeting, avoiding or passing by these movements require dancers to travel towards each other and then move right or left to avoid and pass
- meeting and parting these movements require dancers to meet, turn and travel away
- canon this technique requires dancers to take it in turns to perform a movement that is then identically copied and performed by others
- unison this technique requires dancers to move at the same time as each other
- contrasting this technique requires dance partners to perform contrasting movements to each other





Year 7 Basic Skills Dance by Chance Cunningham and Cage

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- Describe elements in a performance
- Apply dance skills and techniques

- perform with timing, extension and fluency.
- develop dance by using choreographic devices.
- Demonstrate leadership skills

Retrieval Practice







Career Focus - Where could this take you?

am a **Personal Trainer** and it is my job to work with people on their physical skills and abilities. I designed workout routines and support clients in achieving their goals and improving their performance.

Challenge Activities

Interview and examples of work

An interview with Cunningham and Cage.

Topic Links	Additional Resources
This topic links to: Drama Performance skills 	To further practise and develop you knowledge see: <u>https://www.bgsperformingarts.com/drama.html</u>
PE - Physical skills	 <u>http://www.kneehigh.co.uk/page/about_kneehigh.</u>
English - Understanding terminology and verbs.	• https://www.bbc.com/bitesize/cubiocts/zbekive
Maths - Problem solving	



Year 7 Drama and Storytelling

- The aims of the sequence of learning are to ensure that all students:
- develop knowledge of what Drama Elements mean.
- develop drama technique and skills.
- Identify and perform drama

Keyword		Key Concepts	
Storytelling	Gesture	Thinking Questions	Techniques:
Still image	Projection	How am I showing my character?What is my body language?	to hear you)
Narration	Performance	How is it different to my normal?What is my character feeling?	that is different to yourself)
Body Language	Volume	 Do my facial expressions match this? What is my posture like? 	Posture (How you stand and how that is different to you normally)
Facial expression	Timing	 How do I walk? What is my gait like? How do I react to the other characters? 	Narration (Used in the art of storytelling. Its purpose is to tell stories. Narration can be factual or fictional)
Characterisation	Pause	 How do freact to the other characters? How close do I stand next to others 	
Space	Pace	A good devised performance Will have a range of different believable characters. It will use a set scenario or one you have made up. The audience will be able to understand what is happening and will be engaged by the action and the	
Levels	Posture		
Improvisation	Hot-Seating	storyline.	
		STORYTELLING DRAMA You will be developing your knowledge and understanding of DRAMA, STORYTELLING, DEVISING and CHARACTERISATION. These are key drama skills that you will need. We will be creating MYTHICAL characters and creating improvised performances where good characters overpower evil forces to right wrongs.	
		Assessment You will take part in several peer and self assessmer assessment. receiving feedback from your teacher. Your assessment for this Topic will be based on createvaluating them	nt tasks over the project, as well as your teacher ating characters and devising performances, before



Year 7 Drama and Storytelling

- The aims of the sequence of learning are to ensure that all students:
- develop knowledge of what Drama Elements mean.
- develop drama technique and skills.
- Identify and perform drama

Career Focus - Where could this take you?





I am a Physical theatre performer. Knowledge of different movement traditions, such as mime and clowning is very important. Being able to utilize your facial expressions, body language, posture, spatial awareness, and physicality to tell a story is key to engaging the audience.

Challenge Activities

Write a short 50-100 word description of a lesson or Drama activity you are doing in school. Are you learning a new skill? What is it? How will you learn this skill? Or are you developing a skill you already have to make it better? Which one? How?

Prove that you took part in this activity. You could film yourself doing a version at home, or write up a step-by-step list of all of the things you did.

Write 200 words which explain what you have learnt by taking part in and doing the lesson and how your interests, knowledge and skills have developed. Be specific about your skills.

Topic Links	Ì	Additional Resources
Dance Music English		If you want to do more and extend yourself in DramaExplore the Arts as a participant
History		Watch to learn more about tableau/still-image
		https://youtu.be/YfNmlY1-t5k

Dramatic Elements

Role & Character

Require actors to identify and portray a person's values, attitudes, intentions and actions. Role focuses on type and stereotype while characters are detailed and specific.

Tension

A sense of anticipation or conflict within characters or character Problems, surprises and mystery in stories to further the dramatic action and create audience engagement.

Situation 🔵

Situation refers to the circumstances the characters are in - the who, what where, when and what is at stake of the roles/characters.

Language

and ideas in drama used to create dramatic action. This includes the vocal skills

Mood & Atmosphere

Mood is the feeling or atmosphere that is created by, and emerges through, the dramatic action.

An atmosphere is a surrounding environment or influence.

Focus the attention on a spatial direction or intensify attention and frame moments of dramatic action.

Relationship

The connections and interactions

between people

🕘 Time & Place

Time refers to the fictional time in the story or setting.



Movement

Movement refers to the physical way in which a character or object transitions through a provided space. It can also refer to stillness his includes the physical skills.



Ryan Coates 8th May 2021

Dramatic Action



Year 7 Food Tech

The aims of the sec	uence of learning are	to ensure that all students:

- to be able to name the key nutrients, sources and functions
- to acquire and demonstrate a range of food skills and techniques
- to be able to acquire and demonstrate the principles of food hygiene and safety
- to be able to identify how and why people make different food and drink choices

• to acquire and apply a knowledge and understanding of food science;

Keyword	Definition 🕒
Weighing scales	A tool used to accurately measure the weight/mass of ingredients
Knife	A sharp tool used for cutting food. Different types of knives have different uses, e.g. bread knife, fish knife
Chopping board	Board used for cutting food on to protect work surfaces. Generally made from glass, plastic or wood
Saucepan	A larger pan used for boiling water or making sauces
Wooden spoon	Used for stirring hot food as the material insulates the heat well
Tablespoon	A measure of 15 millilitres
Teaspoon	A measure of 5 millilitres
Dessert spoon	A spoon midway in size between a teaspoon and a tablespoon
Grater	A metal tool used for grating food into much smaller pieces
Baking tray	A metal or Pyrex tray used in the oven to cook food on
Cooling rack	A wire rack used to cool food, often baking
Peeler	Tool used for removing the skin/peel from a food item, usually a fruit or vegetable
Spatula	A broad, flat tool used for mixing or spreading
Nutrient	a substance that provides nourishment essential for the maintenance of life and for growth.
Healthy	in a good physical or mental condition; in good health.





The 4C's Concept

Key Concepts

By practicing the four Cs of food hygiene **cross-contamination**, **cleaning**, **cooking and chilling** those working with food can avoid food poisoning and other illnesses.

I		1		1	
Core		Knead	Se-	Sift	9 -
Cream	١	Layer	-	Snip	X
Crush	-	Mash	-	Spread	R
Cut out	Ω O	Measure	T	Stir-try	\checkmark
Cut, chop, slice, dice and trim	J	Melt, simmer and boil	* -	Weigh	$\underline{\mathbf{M}}$
Decorate and garnish		Microwave		Whisk	P
Drain	. ه.	Mix, stir and combine	1	Zest	

COOKING CONVERSION CHART

ES MILLILITERS	TABLESBOOKIS	-			-		
	TABLESPOONS	\ (CELSIUS		IMPERIAL	METRI
1895 ml	128		100 °F	37 °C		1/2 oz	15 g
7 1420 ml	96		150 °F	65 °C		l oz	29 g
z 1180 ml	80		200 °F	93 °C		2 oz	57 g
oz 960 ml	64		250 °F	121 °C		3 oz	85 g
z 480 ml	32		300 °F	150 °C		4 oz	113 g
z 240 ml	16		325 °F	160 °C		5 oz	141 g
z 177 ml	12		350 °F	180 °C		6 oz	170 g
z 158 ml	11		375 °F	190 °C		8 oz	227 g
z 118 ml	8		400 °F	200 °C		10 oz	283 g
z 90 ml	6		425 °F	220 °C		12 oz	340 g
oz 79 ml	5.5		450 °F	230 °C		13 oz	369 g
z 59 ml	4		500 °F	260 °C		14 oz	397 g
z 30 ml	3		525 °F	274 °C		15 oz	425 g
oz 15 ml	1		550 °F	288 °C		1 lb	453 g
	1420 ml 02 1180 ml 02 960 ml 02 240 ml 02 177 ml 02 118 ml 02 118 ml 02 120 ml 02 177 ml 02 118 ml 02 130 ml 03 157 ml 04 30 ml 05 30 ml 06 15 ml	boz 1420 ml 96 boz 1180 ml 80 boz 1180 ml 32 boz 480 ml 32 boz 240 ml 16 boz 177 ml 12 boz 118 ml 8 boz 190 ml 6 boz 90 ml 6 boz 79 ml 5.5 boz 59 ml 4 boz 30 ml 3 boz 15 ml 1	oz 1420 ml 96 oz 1180 ml 80 oz 960 ml 64 oz 480 ml 32 vz 240 ml 16 vz 126 ml 11 vz 158 ml 11 vz 158 ml 6 oz 90 ml 6 oz 77 ml 5.5 vz 59 ml 4 vz 30 ml 3 oz 17 ml 12	oz 1420 ml 96 oz 1180 ml 80 oz 960 ml 64 oz 480 ml 32 oz 200 °F 300 °F oz 480 ml 32 oz 177 ml 16 oz 198 ml 11 oz 118 ml 8 oz 90 ml 6 oz 77 ml 5.5 oz 59 ml 4 oz 30 ml 3 oz 30 ml 3 oz 15 ml 1	box 1420 ml 96 box 1180 ml 80 box 1180 ml 80 box 480 ml 32 box 480 ml 32 box 240 ml 16 box 177 ml 12 box 118 ml 8 box 118 ml 8 box 118 ml 8 box 118 ml 8 box 90 ml 6 cox 79 ml 6 cox 79 ml 5.5 box 50 off 230 ofc box 30 ml 3 cox 15 ml 1	boz 1420 ml 96 boz 1180 ml 80 boz 960 ml 64 boz 480 ml 32 boz 480 ml 32 boz 177 ml 12 boz 118 ml 8 boz 177 ml 12 boz 177 ml 12 boz 177 ml 6 boz 177 ml 6 boz 178 ml 8 boz 90 ml 6 boz 55 200 °F boz 120 °C 200 °C boz 120 °C 200 °C boz 120 °C 200 °C boz 50 °F 200 °C 425 °F 220 °C boz 500 °F 260 °C boz 150 °F 288 °C	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$



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Year 7 Food Tech

The aims of the sequence of learning are to ensure that all students:

- to be able to name the key nutrients, sources and functions
- to acquire and demonstrate a range of food skills and techniques
- to be able to acquire and demonstrate the principles of food hygiene and safety

a healthy diet

Physical health and fitness - The characteristics and

mental and physical benefits of an active lifestyle.

- to be able to identify how and why people make different food and drink choices
- to acquire and apply a knowledge and understanding of food science;





Eat well video resource





Career Focus - Where could this take you?

Newsome Academy Year 7 Ukulele

Ö...

- The learning outcomes for this topic are: What musical elements are, how and why we use them in music, and how to use them within your singing and playing
 - How to play a range of chords on the ukulele, including C, Am, F and G

- How to recognise the musical elements when listening to music and how to use them when playing and singing music
- How to use correct technique when holding and playing the ukulele

Keyword	Definition	Key Concepts	
Dynamics	How loud or soft the music is and how this changes	This dot means play the open string	A State
Тетро	How fast or slow the music is and how this changes		
Texture	The layers within the music - how thick or thin the music is		5
Pitch	how high or low the music is	Press with these fingers These are	
Timbre	The tone of the instrument	the main chords we	
Attack & Decay	How sounds start and stop - suddenly or gradually	UKULELE will be using	
Silence	When no sound is used	4 3 2 1	
Ukulele	The ukulele is a four stringed instrument which looks more or less like a miniature classical guitar.	C Am F	G
Strumming	To play all 4 strings by sweeping down with your hand or a plectrum		
Picking	To play or 'pick individual strings to create a melody		00
Technique	The correct was to play the instrument		$\left + + + \right $
Chord	Multiple notes played at the same time		



The learning outcomes for this topic are:

- What musical elements are, how and why we use them in music, and how to use them within your singing and playing
- How to play a range of chords on the ukulele, including C, Am, F and G $\,$

- How to recognise the musical elements when listening to music and how to use them when playing and singing music
- How to use correct technique when holding and playing the ukulele

Tuning Keys Head Nut Frets Soundhole Bridge Body Neck Neck Head STRUMMING SYMBOLS D = Down U = Up X = Tap/Hit

C MAJOR SCALE ON UKULELE



Career Focus - what skills are you learning?



I am a ukulele player and I have to use lots of skills to play this instrument. I have to use coordination as my left hand is always doing something different to my right. I have to listen very carefully so I know what I am playing is correct. This also helps when I am playing in a group and demonstrating good teamwork. I also have to read the chords as I play. Coordination and teamwork are skills needed in many other jobs and careers.

Challenge Activities



How well do you know your musical elements? Take this quiz to find out. Elements Quiz Link

Here is a more indepth quiz to really test yourself: <u>Challenge Elements Quiz</u>

Listen (and watch) the following piece of music by clicking here <u>"Thunderstorm" a graphic notation</u> <u>composition by Alex Chorley, age 12</u> and describe the musical elements within it.

Topic Links	Further Listening
Band Skills Rhythm & Pulse Geography and culture Literacy - keywords and spellings Numeracy - Counting, rhythm, understanding patterns	<u>Ukulele Orchestra of Great Britain</u> <u>George Formby</u>



The learning outcomes for this topic are:

- To understand the importance of rhythm in West African culture
- To be able to play the djembe using correct technique
- To be able to improvise rhythms
 - To develop ability to compose in groups



Career Focus - Where could this take you?



We are djembe drummers. Group composition requires us to respect the ideas and contributions of others in the group. It also builds teamworking skills as we have to work creatively with other musicians. It is important to learn about music from all over the world to understand different backgrounds and cultures. Tolerance is one of the core British values. Teamwork, creativity and respecting others are important in most jobs and careers

Challenge Activities

https://www.macprovideo.com/course/mu	Here's a rhythm quiz to really test your knowledge: https://www.macprovideo.com/course/musictheory103-rhythm/quiz		
 Here is an online djembe lesson. See if yo https://www.youtube.com/watch?v=jfNs0Z 	Here is an online djembe lesson. See if you can learn this rhythm: https://www.youtube.com/watch?v=jfNs0Z2duPs&ab_channel=DjembeGuru		
 Further Listening: Jalikunda African Drums' on YouTube 'Kasiva Mutua: How I use the drum to tell my st Famoudou Konate - Spotify 	tory' on YouTube		
Topic Links	Additional Resources		



Newsome Academy Everyone Exceptional Everyoav Everyone Exceptional Everyoav

- To understand the importance of rhythm in West African culture ٠
- To be able to play the djembe using correct technique •
- To be able to improvise rhythms
- To develop ability to compose in groups

Keyword	Definition	Key Concepts	2000 - 100 -
Rhythm	a strong, regular repeated pattern of movement or sound	Djembe Hand Techniques	Djembe Parts
Dynamics	The volume of a note or sound	Bass is played in the	Head - traditionally made of goat skin. Mass-produced djembe heads are made of plastic that is textured to look like animal skin.
Duration	The length of a note or sound	center of the head	
Pulse	A steady beat like a ticking clock or your heartbeat. It can be measured in time by counting the number of beats per minute (BPM).	with your fingers closed and your hand flat.	Tuning ropes - These ropes are tied tight to apply pressure to the head. This means the drum has a higher pitched sound when we hit it.
Тетро	The speed of the pulse.		Part of the second seco
Ostinato	A short, repeating pattern.	Tone is played on the edge of the djembe	Body - The main part of the djembe is traditionally made from wood. Some modern diembes are made from metal
Polyrhythm	When two or more rhythms are being played at the same time.	with your fingers closed and your hand cupped	
Improvisation	To make music up in the moment, without planning or rehearsing what you will play.	Slap is played near	
Imitation Call and Response	One drummer plays a rhythm and the rest of the group repeat it exactly	the edge of the head with your fingers open.	
Master drummer/ griot	The master drummer is the leader of the group. They give the cues and lead		
	the call and response. Griots are the wise leaders and musicians of West African villages.		The body of the djembe is hollow. This allows the air to escape, giving the instrument more volume.



Year 7 Invasion Games

The aims of the sequence of learning are to ensure that all students:

- Can identify at least four core skills required for invasion games
- Demonstrate basic core skills such as a chest pass

• Demonstrate basic core skills in a game situation

• Lead a small group of peers in a warmup

Keyword	Definition	Key Concepts	
Bacc	keep possession of the ball by maneuvering it between different	Defending Delay Balance If possession is lost quickly—a de- fender should try to slow the Defenders need to move into an ap- propriate formation in relation to	Attacking Support To give the player in possession as many options as possible team-mates move into different posi-
Fass	players with the objective of advancing it up the playing field	attacker down so other players can get back in position (goal side). where the ball is.	tions to receive the ball. This could be to the side / behind / in front of the ball.
Catch	to receive the ball from another player and keep possession	オーオーオーオー	an organised defence e.g. one-twos, fake passes, outwit defenders with the ball
Defend	to resist the attack of the opposing team	You should already know:	You will be assessed on: - Understanding
Attack	the action of attacking or engaging an opposing team with the objective of scoring points or goals	- The name of at least 2 invasion games	 Technique in isolation Technique in game Leadership Attitude to learning
Tackle	trying to take the ball from an opponent	further: Harry Kane	Helen Housby Lewis Ludlam
Intercept	Obstruct someone/something from getting to their desired position/destination		



Year 7 Invasion Games

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Retrieval Practice



Career Focus - Where could this take you?



I am a human biologist an it is my job to study the human skeleton and muscular systems to understand how it works and moves.

Challenge Activities

1. Design a new rule for either football, netball or rugby. Explain how your rule will impact the game.

2. Create a mind map of all of the equipment needed to play an invasion game of your choice.

Topic Links	Additional Resources
 This topic links to: Science – movement of the body and muscles; the physics of sports English – understanding and defining key terminology Mathematics – problem solving, recording figures and analysing performance 	To further practise and develop you knowledge see: https://tgfu.weebly.com/invasion-games.html https://en.wikipedia.org/wiki/Association football https://www.youtube.com/watch?v=aBuxsRnU50A https://www.world.rugby/the-game/laws/home





Year 7 Religion: An introduction to faith in the UK

The aims of the sequence of learning are to ensure that all students:

- Describe different things which influence our lives
- Know the different faiths practiced in Britain

• Discuss why religion is important to people

• Describe what RE is and why we study it

Keyword	Definition	Key Concepts
influence	something that has changed the way people think or behave	Can you identify the six world religions by their symbols?
multi	means more than one, usually a lot more than one	
faith	if you have faith in something, you trust it or believe in it.	BUDDHISM JUDAISM CHRISTIANITY
religion	a set of ideas people have about a god or gods	
RE	Religious Education. A subject where students learn about religions and what people believe	ISLAM HINDUISM SIKHISM
festival	a special time when people celebrate something	
tradition	people have done it in the same way for a very long time	



Year 7 Religion: An introduction to faith in the UK

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- Discuss why religion is important to people
- Describe what RE is and why we study it

Retrieval Practice

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Questions	Answers
Who/ what influences our lives?	Family Friends Schools Clubs Media (TV, radio, news) Village, town or city we live in
What does multi-faith Britain mean?	Britain is a county which has many different faiths. Many people follow the six world religions of Christianity, Islam, Hinduism, Judaism, Buddism and Sikhism. There are others as well!
What is Religion?	This is a set of ideas people have about a god or gods.
Give some reasons why we study RE at school?	To understand and discuss your own and other people's beliefs To learn from others
How can we show respect for people's different beliefs?	Show an interest in people's faith. Ask about the festivals people are celebrating. Share food and presents with them at festival times. Find out more by talking are reading.



Career Focus - Where could this take you?

In any job you do in the future and wherever you go you will meet people from different faiths and religions. If you understand why a person behaves how they do and what they believe in the better you will all work together.

Challenge Activities



1. Have a chat with a friend or family member about who are their biggest influences.

2. Find out how many people follow a faith in the UK? Can you write down how many people are of which faith?

3. Design a webpage that promotes RE at Newsome

Topic Links	?	Additional Resources
This topic links to:		To further practise and develop you knowledge see:
• PSHE		A great website to find out about different religions.
Geography		Newsome Academy
History		https://www.bbc.co.uk/bitesize/subjects/z7hs34j

Newsome Academy Veryone Exceptional Everyday Year 7 Looking after yourself Know why it is important to keep your body and clothes clean

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Keyword	Definition	Key Concepts
Tooth	Used to cut, tear and grind food into small pieces	Clean or Dirty?
Teeth	More than 1 tooth.	
Mouth	The place where food is chewed	
Gum	Where your tooth sits	
Clean	To get rid of food and "bits"	
Brush	Clean your teeth with a toothbrush	
Toothpaste	A cream for cleaning teeth	
Dentist	A person who checks your	1. Toothpaste on brush
	teeth are ok (healthy)	2. Brush up and down
Wash	To use water to get clean	3. Brush around
Shower	A spray of water	5. Brush sides of teeth
Soap	Use with water for washing	6. Brush tongue
Shampoo	A mix used to clean hair	8. Clean teeth!!!

Newsome Academy Year 7 Looking after yourself

The aims of the sequence of learning are to ensure that all students: • Understand the importance of cleaning and looking after your teeth Know why it is important to keep your body and clothes clean

Retrieval Practice Career Focus - Where could this take you? 3 Questions Answers I am a dental assistant. My job is to help the dentist. I make sure the equipment Shampoo 1. What do you use to wash is ready for the dentist to use. your hair? I meet lots of people every day. I talk to the patients to try make them feel About 2 minutes happy. 2. How many minutes should you brush your teeth for? **Challenge Activities** Why is it important to brush your teeth? 2. Use a laptop to find the names of these types of teeth. What is their function (job)? 3. Why is it important to have To stay clean and not get smelly a wash or shower every day? eg Soap 4. Name 5 items (products) ∂ **Additional Resources Topic Links** that you can use to keep you Shower gel clean. Shampoo This topic links to: To further practise and develop you knowledge see: Hand gel Literacy - verbs, scientific words BBC bitesize KS2 - How to keep your teeth Toothpaste healthy French - teeth = les dents



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The aims of the sequence of learning are to ensure that all students:

- Name the bones of the skeleton
- Understand the functions (jobs) of the skeleton
- Understand that muscles work in pairs to move bones

Keyword	Definition	Key Concepts
bone	Bones are strong and support your weight	Bones of the skeleton
muscle	Muscles let us move	Ribs-
skeleton	A skeleton is made up of lots of different bones.	Spine — Radius Pelvis — Plvis — Radius
support	Lets you stand up, sit down	Femur
protect (look after)	Looks after your heart, brain etc	Fibula Tibia
move	Change position	The rib cage protects the heart and lungs

Newsome Academy Everyone Exceptional Everyday Year 7 Movement (HT1 ii)

The aims of the sequence of learning are to ensure that all students:

- Name the bones of the skeleton
- Understand the functions (jobs) of the skeleton
- Understand that muscles work in pairs to move bones

Retrieval Practice

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Questions	Answers
1. What are the 3 jobs (functions) of the skeleton?	Protect the organs Lets you move Supports your body
2. What is the job (function) of the skull?	To look after (protect) the brain
3. Name 5 bones in your body	eg skull, jaw, ribs, spine, thigh bone
4. Why is your rib cage important?	It looks after (protects) the heart and the lungs
5. Where in your body are your hamstrings and quads (quadriceps)?	In the top (upper) part of your leg

Career Focus - Where could this take you?



I am an X-ray nurse (radiologist). I use a machine to make x-ray pictures of the inside of your body. The pictures show the parts of your body in black, white and grey. X-ray pictures can tell us if you have a broken bone.

Challenge Activities

- 1. How do your biceps and triceps work together to move your arm?
- 2. Use a laptop to find the name of the substance that is around the ends of bones to makes your bones move smoothly.
- 3. Find the scientific names for the skull, the thigh bone and the kneecap
- 4. Which muscles work in pairs to move your arm?
- 5. Which muscles work in pairs to move your upper leg?

Topic Links	∂	Additional Resources
This topic links to:		To further practise and develop you knowledge see:
PE		skeleton work?
Physiotherapy sessions		Fred - our model skeleton
		 Torso model - showing where organ fit together in the chest







Usernames and Passwords