Year 8 – HT4



Knowledge Organisers

Name:

Team:



Mathematics

- 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.



8.17: Linear equations with brackets and fractions

The learning outcomes for this topic are:

- Solve 1 step equations involving fractions with integer solutions
 - Solve 2 step equations involving fractions with integer solutions
 - Solve equations involving one set of brackets with integer solutions
- Solve equations with brackets on both sides with integer solutions
 - Solve 2 step equations involving fractions with fractional or decimal solutions Solve equations involving one set of brackets with fractional or decimal solutions

Key Word	Definition	Key Concepts			
Equation	A formula stating that two expressions are equal	When solving equations with brackets, there are normally	Concept – what it is	Non-Concept – what it isn't	
Linear	A function where the graph would be a straight line	two ways to proceed.	When an equation has fractions in it,	When multiplying out the brackets,	
Positive	A number with a value greater than zero		try to work out in your head what has	make sure you remember to multiply	
Negative	A number with a value less than zero	For the example:-	happened to the unknown to form the	out the second term correctly, and be	
Coefficient	A number used to multiply a variable	3(2x+4) = 30	expression and then unpick it in reverse using inverse operations.	careful to treat any negative parts correctly.	
Unknown	A number we do not yet know		Fg	concerty.	
Variable	A symbol for a number we do not yet know	Way 1 – Multiply out the brackets first gives	$\frac{7c+4}{2} = 11$	When solving your equation with	
Solution	A set of one or more values which make an equation true	6x + 12 = 30	8 Try to consider what has happened to	fractions make sure you perform your inverse operations in reverse order.	
Constant	A value which never changes in an expression	Then follow through with methods from previous chapters	the 'c' in the expression on the left:-		
Bracket	Symbols used to group expressions together	Then follow through with methods from previous endpters	It has been multiplied by 7, then had 4	When solving your equation with fractions, make sure you use inverse	
Fraction	Part of a whole, with value 'numerator' divided by 'denominator'	6x = 30 - 12	added to it, then been divided by 8.	operations, not the same operations as in the original equation.	
Numerator	The top number of a fraction	6x = 18	(continued below)	in the original equation.	
Denominator The bottom number of a fraction		x = 3			
Careers	Focus – Where could this take you?	x - 5	Standard Examples	Non-Standard Examples	
I am a nuclear engineer and use both linear and non-linear in my work. I have to be accurate and precise with my calculations to ensure everyone is safe.		Way 2 –Divide both sides by the coefficient in front of the brackets first.	To solve the equation we need to work backwards, performing the inverse operations to both sides	-28 = -4(1 - 3x) Divide both sides by -4 7 = 1 - 3x	
	Additional Resources	3(2x + 4) = 30	(+9)	Add 3x to both sides	
MathsWatch: <u>A12</u> , <u>A17</u> , <u>4</u>	A19a A19b	2x + 4 = 10	(x8) 7c + 4 = 11 x 8	Add 3x to both sides	
CorbettMaths:Videos 11	1, <u>111a</u> Worksheets <u>111</u> , <u>111a</u>		7c + 4 = 88	3x + 7 = 1	
Curriculum Links - Coherence		Then follow through with methods from previous chapters	(-4)	Subtract 7 from both sides	
Required Knowledge: 8:15 Solving Linear Equations and Basic Inequalities		2x = 10 - 4	7c = 88 – 4 7c = 84	3x = -6	
Applied to: 8:18 Rearranging Formulae 9F:16 Basic Algebra, Substitution, Expanding Brackets, Factorising		2x = 6 x = 3	(÷7) c = 84 ÷ 7	Divide by 3	
Links across school: Equations may be used to solve population growth problems in Geography.			c = 12	x = -2	





<u>8.18: Rearranging formulae</u>

The learning outcomes for this topic are:

- Rearrange 1 step formulae
- Rearrange 2 step formulae
- Rearrange formulae involving brackets

Rearrange formulae involving indices

- Rearrange formulae involving fractions
- Change the subject of a formula where the subject occurs more than once

Key Word	Definition	Key Concepts		
Subject	A variable which has been isolated by algebraic manipulation	The main concept of this chapter is to isolate the variable	Concept – what it is	Non-Concept – what it isn't
Rearrange	Changing the form of an equation to isolate other variables	that you are asked to make the subject of the formula.	The simplest examples involve just	You are not expected to find a number
Operation	A mathematical process, common ones being +,-,x and ÷	To do this, you can use any of the 4 operations, and maybe squares and square roots, and sometimes you will need to	using inverse operations.	answer or solve an equation with this
Inverse	An operation undoing what was done by another operation	factorise.	Eg	type of question, your answer will always be given in terms of the other
Formula	An equation which shows the relationship between quantities	The method is very similar to solving equations, but instead of manipulating numbers, you are doing it with variables.	5t = s, so t = <u>s</u>	variables from the question. Make sure you always do the same to
Term	The smallest part of a mathematical expression		5	both sides and when multiplying or
Equation	A formula stating that two expressions are equal	Eg		dividing both sides, make sure you
Expression	A set of terms combined using the operations +, -, \boldsymbol{x} or \div	Make w the subject of the formula	c = x, so $c = 4x$	multiply and divide all parts of both sides.
Variable	A symbol for a number we do not yet know		-	If you have more than one term
Unknown	A number we do not yet know	a(g - w) = 5w - 3	p + 2 = q, so $p = q - 2$	containing the variable that you are
Index	A small floating number which tells you how many times a number has been multiplied by itself	Multiply out the brackets	v – 4 = w, so v = w + 4	isolating, you will not be able to solve the problem without factorising.
Indices	More than one index	ag – aw = 5w - 3		
Careers Focus – Where could this take you?			Standard Examples	Non-Standard Examples
assessment. My formulae to esta	m responsible for financial risk common job duties include rearranging blish risk potential, creating reports for d offering advice on financial decisions ch. Additional Resources	Put all terms involving 'w' onto the same side and put everything else on the other side. ag + 3 = 5w + aw	Rearrange $v^2 = u^2 + 2as$ to make s the subject. The first step would be to subtract u^2 from both sides.	Rearrange $w = \sqrt[3]{5y-8}$ to make y the subject. The first step would be to cube both sides.
MathsWatch: A1		Factorise the right hand side to begin to isolate 'w'	$v^2 - u^2 = 2as$	$w^3 = 5y - 8$
CorbettMaths:Vi	ideos <u>7</u> , <u>8</u> Worksheets <u>7</u> , <u>8</u> Curriculum Links - Coherence	ag + 3 = w(5 + a) Divide both sides by 5+a to leave w on its own.	Divide both sides by 2a	Add 8 to both sides
Required Knowle 8:17 Linear Equa	edge: tions with Brackets and Fractions	ag + 3 = w	$\frac{(v^2 - u^2)}{2a} = s$	w ³ + 8 = 5y
Applied to: 9F:17 Quadratic Expansion/Factorisation, Changing the subject of a Formula 9H:22 Changing the Subject		5 + a	Once you have s on it's own, the question is finished. It doesn't matter which side of the formula 's' is on.	Divide both sides by 5 (w ³ + 8)/5 = y
Links across scho Used in Science v	pol: when working with the SUVAT equations.			

MathsWatch: A13a,

Applied to:

Links across school:



The learning outcomes for this topic are:

- <u>Rear</u>range 1 step formulae
- Rearrange 2 step formulae
- Rearrange formulae involving brackets

- Rearrange formulae involving indices
- Rearrange formulae involving fractions
- Change the subject of a formula where the subject occurs more than once





8.19: Interior and exterior angles

The learning outcomes for this topic are:

- Recall the relationship between interior and exterior angles Find the exterior angle given the number of sides
 - Find the interior angle given the number of sides

- Find the interior angle given the number of sides
- Given the interior angle find the number of sides the shape has
- Find missing angles in polygons using the sum of the interior angles

Key Word Definition	
Angle The amount of turn between 2 lines about their compoint	
Interior An object on the inside of another shape	
Exterior	An object on the outside of another shape
Polygon	A closed shape made from 3 or more straight lines
Edges	A straight line joining vertices of 2D shapes
Vertex	The mathematical term for a corner
Vertices	The mathematical term for more than one corner
Sum The total by addition of a set of values	

Careers Focus – Where could this take you?

I am an **architect** who builds design plans for offices, buildings and homes. My key responsibilities include using the client's preferences, needs and ideas to create well-designed structures, providing clients with cost estimates, designing construction plans using specifications and scaled drawings.



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Additional Resources

MathsWatch:G11, G19

CorbettMaths:Videos 32 Worksheets 32

Curriculum Links - Coherence

Required Knowledge:

7:20 Angles in a Triangle or Quadrilateral and Properties of 7:21 Angles on Parallel Lines

Applied to:

9F:07 Naming Polygons, Rotational and Line Symmetry, angles in a Polygon, Regular Polygons 9H15 Angles in a Polygon, Regular Polygons

Links across school:

Knowledge of interior and exterior angles may be used in Art where regular polygons need to be drawn accurately.



The sum of the exterior angle of any polygon is always 360°. So you can find a missing exterior angle by subtracting the sum of the other angles from 360°.



x = 360 - (70+60+65+40)

x = 125°

Key Concepts

This means that the exterior angle of any polygon will have size 360/number of sides



The sum of the interior angles for any polygon is given by the formula a = 180(n - 2)

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180°	Concept – what it is	Non-Concept – what it isn't	
360°. the	The main concept is to be able to make a connection between the number of sides of a polygon and the angles in that polygon. In a regular polygon, you have the additional fact that the angles will all be equal. Eg Find the size of the interior angles of a	Exterior angle of a shape is not the full reflex angle outside the shape. It is just the angle between one line on the exterior of the shape to the continuation of the next line. Be careful that questions don't try to confuse you by giving a mixture of interior and exterior angles. Work with	
tne	nonagon. A Nonagon has 9 sides, so 360/9 = 40° is the exterior angle	interior and exterior angles. Work with one or the other. Make sure you are clear whether a question is asking you to find an	
	To find the interior angle take 40° from 180° = 140°	interior or an exterior angle as an answer.	
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	Standard Examples	Non-Standard Examples	
nave	Standard Examples Calculate the number of sides a polygon has if this is one of it's vertices.	Find angle x	
nave	Calculate the number of sides a polygon has if this is one of it's	Find angle x	
have by the	Calculate the number of sides a polygon has if this is one of it's vertices.	Find angle x 120° 100° This question is asking about an	



8.19: Interior and exterior angles

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8.20: Mutually exclusive outcomes Newsome and sample space diagrams

The learning outcomes for this topic are:

- Find simple probabilities for mutually exclusive events Draw a sample space diagram for a simple event
- Use 'not' and 'or' rules for mutually exclusive outcomes

- Find relative frequency from a set of trials
- Use a sample space diagram to calculate probabilities
- Describe how using more trials improves accuracy of relative frequency

Key Word	Definition		
Mutually exclusive	Outcomes which can't occur at the same time		
Exhaustive	When a set of outcomes covers all possibilities		
Trial	A single event of mathematical experimentation		
Outcome	The result of a trial		
Sample space	A table designed to list all possible outcomes		
Event	An outcome or series of outcomes from an experiment		
Sample	A selection chosen from a larger group		
Relative frequency	How often something happens divided by the total number of outcomes		
Experimental probability	An estimate for a probability derived from an experiment		
Probability	A numerical estimate for how likely something is to happen		

Careers Focus – Where could this take you?

Biostatisticians like me employ their mathematical skills and data knowledge in the biology sector. We gather, analyse and evaluate data regarding living organisms and use our medical research studies to draw conclusions.



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Additional Resources

MathsWatch:P3, P7

CorbettMaths: Videos 246, 248 Worksheets 246, 248

Curriculum Links - Coherence

Required Knowledge:

7:22 Probability Scales and Mixed Events

Applied to:

10F:23 Combined Events, 2-way Tables, Venn Diagrams, Tree Diagrams 10H:21 Addition Rule for Outcomes, Combined Events, Tree Diagrams......

Links across school:

Probability may be used in Chemistry to determine how likely reactions are to happen.

Key Concepts

A sample space diagram is a tool to help you to list all possible outcomes so you can determine how likely different possibilities are.

For example, if you were spinning a 4 sided spinner, and tossing a coin, you could expect the following outcomes:-H1, H2, H3, H4, T1, T2, T3, T4. The sample space diagram is a quick way of listing these possibilities.

Spinner



The probability of each outcome is the same, so the chance of getting a Head and a 1 is the same as getting a Tail and a 3 at 1/8.

To determine whether outcomes are mutually exclusive, you need to check whether outcomes can happen at the same time.

For example, the outcomes it is raining and not raining would be mutually exclusive as they can't happen at the same time, but the outcome it is raining, and it is sunny can happen at the same time, as proven by the appearance rainbows.

In a classroom you might be asked are the outcomes 'even numbers' and 'prime numbers' mutually exclusive? The answer would be 'no' as the number 2 falls into both categories so 1 throw of a dice could produce both outcomes.

Со	Concept – what it is					Non-Concept – what it isn't
The ta	e are only pink, able shows the e pink, green or	probability			ag. ndom from the bag	Be clear that to be mutually exclusive, there must be no overlap between the
	Colour	Pink	Yellow	Green	Blue	outcomes. It must be impossible for
	Probability	0.5		0.1	0.2	them to happen at the same time.
(a) W	/ork out the pro	bability th	at the counter	taken is yell	ow	When filling in a sample space, make

The total of all of the probabilities must be 1, so the probability of yellow, must be 0.2.

There are 40 counters in the bag.

Judge each question before you jump (b) Work out the number of blue counters in the bag. into drawing a sample space, as in a

Multiply the total number of counters in the bag by the probability of Blue. $40 \times 0.2 = 8$ blue counters

Standard Examples

Two fair spinners are spun.





Each spinner is spun once. The numbers are added together to get a score.



5 6 8 9 10 7 9 10 11 Spinner 2 6 10 11 12



sure you know what you are expected

problem with only a few outcome, it

might be quicker to just list the

a list of the 2 items?

Non-Standard Examples

A fair spinner has four sections

outcomes.

to put in. is it the total, the sum, or just

The spinner is spun three times. The three numbers are added together to give a score.

Find the probability the score is even

The possible outcomes are

000,00e,0e0,0ee,e00,e0e,ee0,eee Outcomes with even numbers of or no odd number will be even, so the soulution is 4/8 or $\frac{1}{2}$.





Newsome Academy w S Academy w S Academy and sample space diagrams

The learning outcomes for this topic are:

- Find simple probabilities for mutually exclusive events Draw a sample space diagram for a simple event
- Use 'not' and 'or' rules for mutually exclusive outcomes

Find relative frequency from a set of trials

- Use a sample space diagram to calculate probabilities
- Describe how using more trials improves accuracy of relative frequency

Useful Formulae and Hints	GCSE Questions				
For possible outcomes to be mutually exclusive, it must be impossible for them to happen at the same time. It can't be both Monday and Tuesday at the same time, so	In a bag of marbles, there are 20 orange and 30 blue marbles. Vanessa picks out 2 marbles at a time.a) Are the events of picking out an orange marble and blue marble mutually exclusive?	David and Becky want to estimate how many yellow jelly beans are in a tub of 500 jelly beans. A trial consists of taking a jelly bean at random, noting the colour and replacing the jelly bean in the tub.			
these outcomes are mutually exclusive. It can be both Monday and raining at the same time, so these outcomes are not mutually exclusive.	Louis picks out letters at random from the word LIGHTHOUSE.a) Are the events of picking a vowel and picking a letter in the first half of the word mutually exclusive?	trialsjelly beans chosenDavid203Becky10011			
A sample space is a quick way to find all possibilities of a trial. Be careful to check whether you are expected to add or multiply the numbers together or just list them when completing.	Two fair six-sided dice are rolled. The score is difference between the numbers on each dice. (a) Complete the table to show all possible scores. $\begin{array}{r} Dice 1\\ \hline 1 & 2 & 3 & 4 & 5 & 6\\ \hline 1 & 0 & 1 \end{array}$	 (a) Write down the relative frequency of David taking a yellow jelly bean. (1) (b) Write down the relative frequency of Becky taking a yellow jelly bean. 			
To find a probability from a sample space, divide the number of possible successful outcomes by the total number of outcomes.	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 (c) Whose experiment gives the more reliable estimate of the number of yellow jelly beans in the tub? Give a reason for your answer. 			
Relative frequency is the number of successful outcomes divided by the number of trials. The more trials, the better the results.	5 6 (b) Find the probability of scoring a 2	(1)			





- > 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.

Newsome Academy Everyone Exceptional Everyday Year 8 Short Stories

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- The aims of the sequence of learning are to ensure that all students: complete an in-depth study of a novel – show understanding of plot,
 - characterisation and themes
 - Analyse language and structure and effectiveness of meaning
- show understanding of context of novel when and where it was written/set
- Apply their knowledge of vocabulary, grammar and text structure to their writing and select the appropriate form
- draw on knowledge of literary and rhetorical devices in their writing

Keyword	Definition/Effect	Key Concepts					
Alliteration	Using words that start with the same letter and sound, e.g. raging river rapids Gains attention through repetition of; appeals to sense of hearing, emphasises words, enhances imagery, reinforces meaning; aids memory	infer or deduce things about a character personality in five different ways (represented by the acronym STEAL): I. Speech (dialogue) Personality is revealed through language choices (intelligence and education); speed, hesitations and length (temperament); accents (origin and topics (status).	Indirect characterisation can help readers infer or deduce things about a character's personality in five different ways (represented by the acronym STEAL): 1. Speech (dialogue) Personality is revealed through language choices (intelligence and	Indirect characterisation can help readers infer or deduce things about a character's personality in five different ways (represented by the acronym STEAL): 1. Speech (dialogue) Personality is revealed through	Paragraphing Paragraphs are just a group of sentences sharing the same idea. They structure your writing to make it easier for readers to follow. Always start a new paragraph when you change the focus of		
Assonance	Using words with the same vowel sound,e.g. a sharp, dark glance Has the same effect as alliteration		is where the power of a writer's observation and imagination mix, with amazing results.	is where the power of a writer's observation and imagination mix, with amazing results. Successful description conveys important	is where the power of a writer's observation and imagination mix, with amazing results. Successful description conveys important	is where the power of a writer's observation and imagination mix, with amazing results. Successful description conveys important and topics (status).	language choices (intelligence and education); speed, hesitations and length (temperament); accents (origins);
Imagery	helps visualisation of and immersion in descriptions	about: • place/background	Understanding personality through inner thoughts and feelings can reveal	PLACE.			
Onomatopoeia	words invoking sounds; appeals to sense of hearing, enhances imagery, develops an image by creating a sound – crash, ding, splat	 emotion and mood tension/atmosphere action This can elicit emotions within your reader, creating tension, atmosphere, and a sense of immediacy (being there with the character). Characters 2 Characters are the lifeblood of creative writing, driving the plot and representing the human interest element for the reader to care about. There are two forms of characterisation: Direct – the narrator explicitly tells the reader details about the character; i.e.: 'Mr. Ramsay – he is absorbed in himself, he is tyrannical. he is unjust' 	 rationality, confidence, mood, intentions, motivations and other characteristics, as well as discrepancies between their inner and outer personas. 2 2 2 2 2 2 2 2 3 Effect (on others) How do they handle themselves socially? What about the relationships they can or cannot form with others? Revealing the emotional response other characters have towards this one shows what explicit aspects of the character's personality are expressed to others. 4 Actions (& behaviours) Behaviours are a product of inner feelings, revealing a character's drives and motivations. How they physically and verbally interact with others can demonstrate their social standing and their innate nature, i.e.: good, mean, sympathetic, aggressive or selfish. 5 Looks (appearance) Personal hygiene, clothing, body language and facial expressions are the non-verbal cues representing 80% of communication. They may be genuine pointers to how the character feels about them self, their education, wealth, or even their natural state. It could however, be a deception at odds with their true character. 	When writing about a new TOPIC or about or as a new			
Simile	Creates a comparison using 'like' or 'as' - as cool as a cucumber			PERSON.			
Metaphor	a comparison between two things that are otherwise unrelated – he has a heart of gold			Freytag's Pyramid of Dramatic Structure			
Personification & Pathetic Fallacy	attributes human characteristics or emotions to an inanimate thing creating a strong comparison - The weather is miserable outside			A. Actions (& behaviours) Behaviours are a product of inner feelings, revealing a character's drives and motivations. How they physically	Conflict/fising Action A series of events unfold to keep the reader interested. Imcting Incident Imcting Incident		
Voice	the atmosphere created by the writer's choice of tone, in order to convey a mood to a reader			the rising action. (B Resolution The problem is solved. (D Exposition			
Sentence length – short (Simple, Compound)	increases pace (action and dramatic lines); creates a punchy choppy rhythm; grabs attention			The information at the beginning that sets the secure (introduces texting and main characters). The sets the secure is a set of the secure of the of the secur			
Sentence length – long (Compound, Multi-clause)	slow, descriptive or explanatory; can create a sense of relaxation, flow, or time dragging			story or description, the reader's lens to observe the characters and events. 1 st person perspective written as if the narrator is a character, observing or taking part in the story.			
		conclusions		written as if the narrator is talking about the characters and events, but not necessarily a character in them.			

Newsome Academy Everyone Exceptional Everyday Vear 8 Short Stories

- The aims of the sequence of learning are to ensure that all students:
 - complete an in-depth study of a novel show understanding of plot, characterisation and themes
- Analyse language and structure and effectiveness of meaning
- show understanding of context of novel when and where it was written/set
- Apply their knowledge of vocabulary, grammar and text structure to their writing and select the appropriate form
- draw on knowledge of literary and rhetorical devices in their writing

Retrieval Practice







I am a novelist. I write stories for books. To be a successful novelist, you need to have a great imagination and a love for writing. You should be able to come up with interesting characters and plot lines and be able to write in a way that keeps readers interested. You also need to have patience, because writing a novel can take a long time.

Challenge Activities

Topic Links

Literacy

Creativity

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This topic links to:

Higher-order thinking

Use the picture as a stimulus to write a story.

Include as many figurative devices as you can



Falling into the tunnel

Now it's your turn to write a story. Imagine that you have fallen, accidentally, into a dark tunnel, like the one above. You fall quite a long way down and land - on what? What can you smell? What can you hear?

Complete the following table to help you plan Try to think of as many ideas as possible.



What do you see?	What do you smell?	What do you hear?	What can you touch?	What emotions do you feel?
silhouettes	stagnant water	drips of water	crumbling earth of the tunnel	fear
nothingness	sweat			
darkness like a blanket				

Additional Resources

To further practise and develop your knowledge see: • BBC bitesize

https://www.bbc.co.uk/bitesize/topics/z43dwnb/article s/zk972v4





- 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.



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

- Describe light and sound waves
- Draw wave diagrams

- Explain reflection and refraction
- Calculate the angle of refection and refraction

Keyword	Definition	Key Concepts	
Sound wave	A vibration that travels through a medium such as a gas, liquid or solid.	Light	Sound
Longitudinalwave	When a wave moves in parallel to the direction that the wave travels.	Light travels as waves. These are transverse waves, like ripples in water. The direction of vibration in the waves is at 90° to the direction that the light travels.	When something shakes, scientists call it a vibration. All sounds are made by something that is shaking or vibrating. When there is a sound wave, the air particles don't travel directly from
Amplitude	Maximum distance a wave varies from its rest position.	Unlike sound waves, light waves can travel through a vacuum – they do not need a substance to travel through.	the object making the sound to your ear. Sound waves are vibrations being passed on between particles.
Wavelength	The distance from two corresponding (or the same) parts of a wave.	Light can pass straight through transparent materials like water and glass.	
Frequency	How many waves can pass a given point per second, measured in Hertz (Hz)	Translucent materials allow some light to pass through them.	$ \land \land$
Compression	The part of a longitudinal wave where the partides of the medium are close together.	paper. Opaque materials are substances	The air particles start vibrating and push on the air particles next to
Rarefraction	The part of a longitudinal wave where the partides of the medium are farther apart.	which light cannot pass through, like stone, metal or wood.	them, so the vibrations are passed on. The particle moves one way and then moves back in the opposite direction, so ends up back where it started. The particles vibrate in the same direction as the wave travels.
Trans parent	When all of the light can pass through.	The Law of Reflection - The angle the ray	Sound is an example of a longitudinal wave.
Translucent	When only some of the light can pass through.	is reflected is always the same as the angle the light hits the mirror, with both angles being measured from the normal.	Wave Traces
Opaque	When all the light cannot pass through because is a bs orbed or reflected.	Electromagnetic Spectrum	To record or analyse a sound, scientists and musicians use a microphone to turn the sound into an electrical signal. The
Reflection	When light bounces off a surface. The angle of reflection is a lways the same as the angle of incidence.	Gamma ray X-ray Ultraviolet Infrared Microwave Radio	electrical signal can then be displayed on a device called an oscilloscope and it produces a graph called a wave trace.
Refraction	When light passes through a material of different density and changes direction.	Visible Higher energy	Wave traces appear on an oscilloscope graph as a transverse wave, but it is
Electromagnetic spectrum	A continuous spectrum of waves with different wavelengths, frequencies and uses.		important to remember that because they are a sound, they are actually a longitudinal wave.



that it travels).

towards the normal).

Regions where particles are close together.

Regions where particles are spread out.

It slows down and changes direction (angle of incidence decreases

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

- Describe light and sound waves
- Draw wave diagrams

A wave that oscillates (moves) parallel to the wave (in the same direction

- Explain reflection and refraction
- Calculate the angle of refection and refraction

Retrieval Practice Questions Answers What is a sound wave? Energy that travels through matter. How are sound waves made? When an object vibrates.

What is a longitudinal wave?

Sound waves have areas of

Sound waves have areas of

wave show?

wave show?

compression. What does this mean?

rarefaction. What does this mean?

What does the amplitude of a sound

What does the frequency of a sound

What is frequency measured in?

How does light travel?

Define refraction.

What is a transverse wave?

What is the law of reflection?

What happens when light passes

through a denser material?



Career Focus - Where could this take you?



Measure angle using a protractor

Construct an argument using evidence/data

I am a lighting technician. I set up and operate lighting for concerts, conferences, theatres as well as sometimes working on film and TV sets. My day-to-day tasks include interpreting designers plans, running wires, health and safety plans, taking cues from directors, checking equipment and putting it away.

In order to this job well I need a variety of skills such as ability to stay calmunder stress, attention to detail, understanding of machines and tools, leadership skills and ability to use computers.

https://www.voutube.com/watch?v=aCu4VRKMstA

Challenge Activities

		<u> </u>			
The loudness	 Make flashcards for the definitions and retrieval practice questions. Make a mind map for this topic. Remember to include keywords and the links between information. Describe and explain what happens when a light ray is shone at a mirror, a glass block and a prism. Research the electromagnetic spectrum; name the waves and give a use for each. 				
The pitch of a sound.					
Hertz	 Find out about a famous scientist that helped us understanding more about light or sound a list the 				
In straight lines (transverse wave) at right angles to the direction of travel					
A wave that oscillates (moves) at right angles to the direction of travel.	Topic Links	Additional Resources			
The angle of incidence is the same as the angle of reflection.	This topic links to: Energy	To further practise and develop your knowledge see:			
When light waves change direction when going through a material with a different density.	 Space Organisation We will also be practising how to Draw ray diagrams 	Educa ke - <u>https://www.educake.co.uk/</u> BBC Bite size - <u>https://www.bbc.co.uk/bitesize/topics/zw982hv</u> YouTube Cognito -			

Newsome Academy Veryone Exceptional Everyday

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

- Write chemical reactions using words/symbols
- Describe combustion and thermal decomposition

- Identify endothermic and exothermic reactions
- Calculate the rate of a reaction

Keyword	Definition 💿	Key Concepts	A CONTRACTOR OF	
Chemical Formula	Chemical symbols with numbers to show the number of a toms of each element in the molecule.	Chemical Equations	Exothermic and Endothermic Reactions	
Chemical Reaction	A process in which one or more substances are changed into new substances (the rearrangement of atoms).	In a chemical reaction, reactants are the substances that react together, and products are the substances formed.	Activation activation energy energy energy t	
Combustion	A reaction between fuel and oxygen that transfers energy to the surroundings.	Word equations always take the form, reactants \rightarrow products. A + sign separates two or more reactants or products.	Reactants energy Products Products Reactants energy Products	
Incomplete combustion	When there is not enough oxygen for a fuel to fully react in a combustion reaction.	Chemical symbols and formulae can be used to represent elements and compounds in the reaction. This helps us to understand the	Reaction Progress Reaction Progress	
Oxidation	A reaction in which a substance combines with oxygen.	atoms involved in the reaction $OPP[R SULFATE + MAGN[SIUM \longrightarrow OPP[R + MAGN[SIUM SULFATE]]$	Exothermic Endothermic reaction	
Reactant	A starting substance in a chemical reaction.	CuSO4 (aq) Mg (s) Cu (s) Mg SO4 (aq)	Rates of Reactions	
Product	A substance that is made during a chemical reaction.	Combustion	The rate of a reaction can be measured by either the	
Thermal Decomposition	A che mical change (substance breaking apart) ca used by heating.	Burning is an example of a chemical reaction. The scientific name for burning is combustion. During combustion, a fuel reacts with oxygen to make carbon dioxide	rate a reactant is used up or by the rate a product is produced. This can be done by measuring a change in mass, volume of gas produced or	
Exothermic	A chemical reaction that gives out energy, causing the surroundings to heat up.	and water. The reaction releases energy. When there is not enough oxygen available to react with all the fuel, incomplete combustion takes place. This can also produce extra		
Endothermic	A chemical reaction that takes in energy, causing the surroundings to cool.	products = carbon (soot) and carbon monoxide	cloudiness of solution (precipitate).	
Energytransfer	The passing of energy from one energy store to another.	Thermal Decomposition	Catalyst	
Rate of Reaction	A measure of the speed of a reaction, for example measuring the amount of product produced over a set period of time.	These reactions happen when some substances are heated and break down into simpler substances. When carbonates decompose they	A catalyst is a substance that is added to a chemical reaction to make the reaction faster. Catalysts are not changed during the reaction, they only alter the rate. Most catalysts provide an alternative pathway for the reaction to	
Catalyst	A substance that speeds up a chemical reaction	produce a metal oxide and carbon dioxide.	happen with less energy i.e. the activation energy needed for the reaction to occur is lower.	

Newsome Academy Everyone Exceptional Everyday

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- Identify endothermic and exothermic reactions
- Calculate the rate of a reaction

Retrieval Practice		Career Focus - Where could t
Questions	Answers	
What is a chemical change?	When chemical reactions occur to form new substances (new chemical elements or compounds).	
What does a word equation show?	The chemical reaction that has occurred between reactants and products.	
What is a combustion reaction and what 3 things does it need?	Burning of a fuel in oxygen. Requires a fuel, heat and oxygen.	
What is the word equation for combustion?	Fuel + Oxygen = Carbon dioxide + Water	
Define thermal decomposition.	A chemical reaction when a substance is broken down when heated.	Challenge Activities
What are the product of the thermal decomposition of calcium carbonate?	Calcium oxide + Carbon dioxide	 Make flashcards for the de Make a mind map for this Write definitions of endoth Draw a poster, using partice
What is an exothermic reaction?	A reaction that gives out heat so the surroundings become warmer.	5. Find out more about Chem career? What current rese
What is an endothermic reaction?	A reaction that takes in heat so the surroundings become colder.	6. Research the use of catalyst the catalysts help with the
How do you measure the rate of a reaction?	How fast a reactant is used up or how fast a product is made.	
How does temperature affect the rate of a reaction?	The higher the temperature the faster the rate of a reaction.	Topic Links This topic links to:
How does concentration affect the rate of a reaction?	The higher the concentration the faster the rate of a reaction.	 Energy Atoms and Molecules Photos ynthesis and Respi We will also be practising how to
Why do you only need a small amount of a catalyst?	The catalystisn't used up so can be used again and again.	 Draw energy profiles Calculate the rate of a rea Construct a method for ca



Tam a chef. I am responsible for cooking food for people in places like pubs, restaurants and hotels. I have learnt to cook lots of different food from all over the world. There are many different types of chef, but it is common to start

as a commis or junior chef. I use chemical reactions to cook food and improve its flavour. The Mailard reaction when cooking causes the browning effect and was discovered by a French chemist called Louis-Camille Mailard. This reaction produces the flavours in cooked meats, onions and roasted coffee..

My average wage is £15,000-30,000 and I work unsociable hours usually in the evenings.

2. 3. 4. 5. 6.	Write definitions of endothermic and exoth Draw a poster, using particle diagrams, to e Find out more about Chemists and what the career? What current research is being dom	ion of ammonia. What catalysts is used and how does
Тс	opic Links	Additional Resources
	opic Links	Additional Resources Image: Constraint of the second s





Year 8 Photosynthesis & Respiration

The aims of the sequence of learning are to ensure that all students:
Write word equations for photosynthesis and respiration
Describe the process of photosynthesis

• Describe the process of respiration

• Compare aerobic and anaerobic respiration

Keyword	Definition 🖸	Key Concepts		
Photosynthesis	A process carried out by green plants that uses carbon dioxide, water and sunlight to produce glucose.	Photosynthesis	Aerobic Respiration	
Chloroplasts	Organelles found in plant cells that contain chlorophyll	Photosynthesis is a process that occurs in the leaves of a plant and needs both chlorophyll and light energy.	Respiration involves chemical reactions that break down nutrient molecules in living cells to release energy.	
Chlorophyll	The green pigment in plants that traps sunlight	During photosynthesis, the chlorophyll in leaves help convert carbon Aerobic respiration needs oxygen. It is the release of a relati	Aerobic respiration needs oxygen. It is the release of a relatively large amount of energy in cells by the breakdown of food substances in the	
Palisade Cell	A cell in a leaf that is long and narrow that is packed with chloroplasts.	The product glucose acts as a vital source of food for the plant. Carbon dioxide, water and light are all needed for photosynthesis to take place.	presence of oxygen. It mostly occurs in tiny parts of your cells called mitochondria which are found in the cytoplasm. Cells which need more energy like sperm cells,	
Stomata	A verysmall pore in the lower surface of a leaf.	Sunlight Oxygen	which swim, or muscle cells which contract and relax, have more mitochondria.	
Phloem	A tissue made up of cells forming long tubes that transport sugars a round the plant.	Carbon	GLUCOSE + OXYGEN \rightarrow CARBON DIOXIDE + WATER	
Xylem	A tissue made up of cells forming long tubes that trans port water and minerals up the plant from roots to leaves.	Sugars	$C_6H_{12}O_6$ + GO_2 \rightarrow GCO_2 + GH_2O	
Aerobic Respiration	Respiration involving oxygen.		Anaerobic Respiration	
Anaerobic Respiration	Respiration without using oxygen.	Leaves are adapted for	During vigorous exercise your body cells may not have enough oxygen for aerobic respiration to take place and anaerobic respiration occurs	
Mitochondria	An organelle found in a nimal and plant cells where respiration is carried out.	photosynthesis and gaseous exchange. They are adapted for	instead. Anaerobic respiration releases less energy than aerobic respiration but it does this more quickly. Anaerobic respiration in microorganisms such as yeast is called	
Lactic acid	The substance produced during anaerobic respiration in a nimals.	photosynthesis by having a large surface area, and contain openings, called	fermentation. This can be used for baking and brewing.	
Fermentation	A type of a naerobic respiration that occurs in plants and some microbessuch as yeast.	stomata to allow carbon dioxide into the leaf and	$\frac{\text{GLUCOSE}}{\text{GLUCOSE}} \rightarrow \frac{\text{LACHC ACID}}{\text{GLUCOSE}}$	
Glucose	A simple sugar molecule produced during photosynthesis and used during respiration.	EPIDERMIS CUTICLE	$\frac{\text{GLUCOSE}}{\text{GLUCOSE}} \longrightarrow \frac{\text{CARBON DIOXIDE}}{\text{CARBON DIOXIDE}} + \frac{\text{ETHANOL}}{\text{CARBON DIOXIDE}}$	



Newsome Academy Veryone Exceptional Everyday Year 8 Photosynthesis & Respiration

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

- Write word equations for photosynthesis and respiration
- Describe the process of photosynthesis

- Describe the process of respiration
- Compare aerobic and anaerobic respiration

Retrieval Practice		Career Focus - Where could this take you?		
Questions	Answers		ne maker. I oversee the entire wine process	
What is made during photosynthesis?	Glucose – food for the plant which is stored as starch.	and bottl	•	
What is the word for photosynthesis?	Carbon dioxide + Water \rightarrow Glucose + Oxygen	wines co	understanding of the fermentation to alter a mposition and taste.	
What four things are needed for photosynthesis to occur?	Sunlight, Carbon dioxide, Water and Chloroplasts	into carb My salar	used in this process to turn the sugars in fruit on dioxide and ethanol. y is variable and I can work in small s/factors or even once I have experience work	
Where in the leaf does most of the photosynthesis take place?	Palisade cells.		sive scale across many vineyards and	
What is the function of the large air spaces in leaves?	Allow gases to diffuse into (carbon dioxide) and out of (oxygen) the cells in the leaf.	Challenge Activities	<u>.</u>	
How is water transported to the leaves?	Through the xylem.	 Make flashcards for the definitions and retrieval practice questions. Make a mind map for this topic. Remember to include keywords and the links between information. 		
How is glucose transported around the plant?	Through the phloem.	3. Create a Venn to compare aerobic and anaer		
In which organelle does respiration take place?	Mitochondria	 4. Describe and explain the changes that happen in the body when a person plays tennis. a picture of a plant and explain the features it has to allow for photosynthesis to occur. 5. Research the different chemical reactions that happen when food is cooked. 		
What is the purpose of respiration?	Releases energy from glucose for cells to use.			
What is the word equation for aerobic respiration?	Glucose + Oxygen → Carbon dioxide + Water	Topic Links	Additional Resources	
What is the word equation for anaerobic respiration in animals?	Glucose → Lactic acid	This topic links to: • Energy	To further practise and develop your knowledge see:	
What is oxygen debt?	The oxygen needed after exercise involving anaerobic respiration. Needed to break down lactic acid.	 Organisation Cells We will also be practising how to Construct flow diagrams 	Educake - <u>https://www.educake.co.uk/</u> BBC Bite size - <u>Photosynthesis and respiration in plants -</u> <u>Respiration and gasexchange - KS3 Biology - BBC Bitesize -</u> BBC Bite size	
What is the word equation for anaerobic respiration in yeast?	Glucose \rightarrow Carbon dioxide + Ethanol	 Calculate the rate of photosynthesis Carry out pre-topic research 	YouTube Cognito - https://www.youtube.com/watch?v=X81OIkeuHJw	



Humanities

- 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

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Year 8 Horn of Africa

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

- Name the countries, and their capitals of the Horn of Africa
- Describe the Horn of Africa's main physical features
- Describe the climate patterns in the Horn of Africa.

- Explain how people live and earn money in the Horn and be able to give facts on jobs people do
- Explain how Djibouti's location has supported its development

Keyword	Definition
Agriculture	The practice of growing crops or animals
Civilisations	The society, culture, and way of life of a particular area
Conflict	An extended struggle or battle
Economy	All the business activity going on in a country
Depression	An area of sunken land
Fair trade	Trade between companies in developed countries and producers in developing countries in which fair prices are paid to the producers.
Grazing	Land with vegetation on where animals feed
Hostile	Unfriendly and not liking something
Nomadic	People with no fixed home who travel to find grazing land
Region	An area having definable characteristics but not always fixed boundaries
Relief	The difference in height from the surrounding terrain
Rural	Countryside, where people live in farms or in small villages
Semi-nomadic	People living usually in portable or temporary housing who farm animals and crops

Key Concepts



Coffee and Salt

Ethiopia is the home of coffee, around 15 million Ethiopians depend on it (farming or involved in the selling of it) for a living. Around £50 billion is spent on it globally a year

Salt is mined in the Danakil Depression; in the past the Red Sea flooded the area. When the waters fell the water in the Depression slowly evaporated leaving thick beds of salt. You might have had some on your food?

Horn of Africa's physical geography.

The Ethiopian Highlands are the largest area of highland in Africa

The Danakil Depression is 100m below sea level Lake Assal in the Afar Triangle is the lowest point in all Africa







Year 8 Horn of Africa

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Key Concepts



<u>Nomads</u>

In the Horn of Africa nomads live in the dry areas where there is too little rain for crops. They follow the rains to find grass and vegetation.

There are at least 10 million nomads in the region and over half of the population of Somalia are nomadic.



<u>Djibouti</u>

Djibouti is a tiny country, with a population of only



	Djibouti	Eritrea	Ethiopia	Somalia	UK
Population (millions)	0.9	5.9	85.2	9.8	64
% aged 14 or under	34	41	44	44	17
% living in towns and cities	77	21	17	38	80
How long a new baby is likely to live for (years)	62	63	60	51	80
% of population with access to clean safe water	92	61	44	29	100
What % of workforce are farmers?	under 30	80	85	71	1.4
GDP per person (PPP) (in dollars)	\$2700	\$800	\$1200	\$600	\$37 500

Year 8 Horn of Africa

The aims of the sequence of learning are to ensure that all students: Name the countries, and their capitals of the Horn of Africa

- - Describe the Horn of Africa's main physical features
 - Describe the climate patterns in the Horn of Africa.
- Explain how people live and earn money in the Horn and be able to give facts on jobs people do

Explain how Djibouti's location has supported its development •

Retrieval Practice

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Career Focus - Social Researcher



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Questions	Answers		am a social researcher. I study pe ay they interact with each other	
Name the 4 countries in the Horn of Africa	Djibouti, Ethiopia, Eritrea and Somalia	questions, observe behaviour, or do expendent of the structure of the stru		do experiments behave in
What is the capital city of Ethiopia?	Addis Ababa			things they do a better place
Name 2 rivers in the Horn of Africa	Blue Nile and Awash	bu	ut instead of solving crimes, I try uzzles about how people think a	to solve
How far below sea level is the Danakil Depression	100m	Challenge Activities		<u> </u>
Which area of the Horn of Africa receives most rainfall and why?	The Ethiopian Highlands because the higher you go the air cools causing precipitation (rain) to develop	 Write a song, poem or rap about nomads and their lifestyle. You can then perform film/record this Create a poster or information leaflet about Fairtrade products and why people sho buy them Research and write travel guide to Ethiopia - Include details on the the climate, physical features, cities, population and what people could see or do there 		·
How does Djibouti earn money?	The port with ships loading and unloading cargo and it has foreign military bases			
Why do nomads move around?	To follow rainfall and find grazing land for their animals	Topic Links	Additional Resources	Î
How was salt formed in the Danakil Depression?	The Red Sea flooded the area. When the waters fell the water in the Depression slowly evaporated leaving thick beds of salt	y This topic links to themes in: • History - slavery and empire • Music - African music		Africa
What % of people in Somalia have access to safe, clean water?	29%	Science - Biomes		



Year 8: The Slave Trade

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

Explore the Triangular Trade and the impact this had on Britain.
Evaluate all aspects of life for Slaves, including Capture and Transport, Auction and Life on a Plantation.

• Analyse various reasons for the abolition of the Slave Trade, including; Campaigners, Slave Resistance and Economic Concerns.

Explain why the Slave Trade was abolished through the evaluation of sources and the use of own knowledge to support.

Keyword 💽	Definition	Key Concepts
Slave	A person owned by another person. They are forced to work and are not paid.	The Triangular Trade: Capture and Transport: The trade of slaves was called the triangular trade Early slave traders from Europe occasionally raided
The Trade Triangle	The system of trade between Europe, West Africa and the Americas.	because it had trade in three stages, making a triangle between Europe, Africa and the Americas. Manufactured goods were taken from Europe, e.g. textiles and
Trade	The buying, selling and exchanging of goods and services.	weapons to Africa, where they were exchanged for slaves. Africans who slaves. Then slaves were transported from Africa to the Tettler, year at the Tettler,
Capture	To take hold or gain control by force or through planning.	The final route was to take goods produced as a result of slave labour in the Americas, e.g. sugar, cotton and
Shackles	Iron chains used to fasten the legs or hands of a slave or prisoner.	tobacco back to Europe. found guilty of a crime, or offending tribal customs.
Branding	To mark a person or animal with a hot iron to show ownership.	The Middle Passage was the alternative name for the second part of The Trade Triangle which involved a 12-week journey across the Atlantic Ocean. Slaves were
Middle Passage	The second <i>(middle)</i> journey of the Trade Triangle, carrying slaves from Africa to the Americas.	kept in appalling conditions: They were packed into the ship in very tight quarters below deck and were chained lying down for most of the journey. Many died during
Auction	A place where people can buy and sell things, often people bid against each other and the highest bid wins.	Auction: The auction block was where slaves were sold to the bighest bidder. Children and babies to the bighest bidder. Children and babies
Plantation	A large area of farmland, or estate, planted with particular crops like tobacco, cotton and sugar cane.	would often be taken away from parents, and families would never see each other again.
Overseer	Person on a plantation paid a wage to organise the work of the enslaved people (manager).	Europeans looking for labour to work on their plantations. Plantations. Plantations slaves were transported Nat Turner killed his master and his family along with 55 other white people. Turner was available to a result
Resistance	To strive against, or refuse to comply (sometimes secretly) with a decision or established ways of doing things.	A strong, healthymale could fetch up to \$500, whilst any slave who was ill, older, or sometimes children would be sold for discount as part of a 'Scramble'. A the being bodg inter decisit, shaves were than spond to their new "home" on a plantation, given a new name and branded with their new owners initials to reinforce the fact that they were now 'property'. On these plantations slaves were forced to complete the many
Underground Railroad	Network of routes that were underground and helped slaves escape.	varied tasks required to grow and refine cash crops like sugar, cotton and tobacco. Slaves of course worked leaflets and presented petitions to Parliament
Quaker	A member of the Religious Society of Friends (a Christian movement).	for nothing, therefore maximising profit, and had no rights; their owners could do whatever they wanted with their 'possessions'. Slaves lived in 'huts' and 'Wilberforce. As well as political action, religious outcryand economic concerns
Campaign	Working in an organised way to achieve a goal.	conditions were tough, with working hours being extremely long – sometimes 18-20 hours a day. Punishments could be severe if you were brave enough Britain abolishing The Slave
Abolish / Abolition	To bring to an end; in this context to end the slave trade and slavery.	to disober your master and could include being whipped, maimed or even killed.

Newsome Academy Everyone Exceptional Everyday Year 8: The Slave Trade

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

- Explore the Triangular Trade and the impact this had on Britain.
 Evaluate all aspects of life for Slaves, including Capture and Transport, Auction and Life on a Plantation.
- Analyse various reasons for the abolition of the Slave Trade, including; Campaigners, Slave Resistance and Economic Concerns.
 - Explain why the Slave Trade was abolished through the evaluation of sources and the use of own knowledge to support.

Retrieval Practice

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Career Focus - Where could this take you?



Questions	Answers	-
What goods were traded at each point of the Triangular Trade?	Manufactured goods like textiles and weapons were taken from Europe. Slaves were taken to the Americas. Then sugar, cotton and tobacco were taken back to Europe.	The second
What kind of conditions did slaves endure during the Middle Passage?	Slaves were chained, lying down in a stuffy and smelly environment. They were given very little food and diseases were common,	
How were slaves prepared for auction?	They were hosed down with water, scrubbed clean and any wounds were disguised with pine tar.	N. N
What happened to a slave once they had been sold at auction?	Most often separated from their family, their names were changed and they were branded. They were now the property of theirs masters.	Chall 1. Re
Name two ways slaves could rebel / resist:	Slaves would resist by refusing to eat, running away, breaking tools and damaging crops. They also used the 'underground railroads'.	ad res 2. <u>OF</u>
How were slaves punished if they disobeyed their masters?	Slaves were often whipped or put in shackles and sometimes they could be maimed or even killed.	an 3. Pro to: - Writ
What methods of campaigning took place against slavery?	Boycotting sugar, distributing leaflets, petitions and speeches in Parliament	- Crea - Writ
How did Olaudah Equiano help the Abolition Movement?	Equiano wrote an autobiography, wrote letters and campaigned. He also gave speeches and spoke to members of the public about his life as a slave.	Topic This top
Why did people oppose the abolition of the Slave Trade?	Many people and Members of Parliament (MP's) were slave owners or owned plantations.	Que Indu Afric
When was the Slave Trade and Slavery abolished in Britain?	The Slave Trade was abolished in Britain on 25 th March 1807 and later slavery was abolished on 28 th August 1833.	• Chri



I am an MP: My job is to represent my local area and constituents. I do this by making speeches in Parliament and highlighting campaigns that I feel strongly about or that have been brought to my attention by the public. I will debate and discuss my views, present petitions and challenge the Government. I vote on new laws and changes to existing laws.

Challenge Activities

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 Research and write a newspaper article about the Slave Ship Zong. There is a link in the additional resources box to help you get started, but you should conduct your own in-depth research. Don't forget to include a picture with your article. <u>OR</u> Research Tacky's rebellion in 1760 and write a newspaper report explaining what happened and why? Think about the causes, events and consequences. Produce a mini-project on some aspect of the topic we are currently studying. You might choose to: Write a biography of a slave who survived or was freed (i.e. Olaudah Equiano). Create a PowerPoint on the campaigns that have occurred over time. Write a poem about the abolition of the Slave Trade. 			
- Write a poem about the abolition of the Slave Tra	ide.		
- Write a poem about the abolition of the Slave Tra Topic Links	Additional Resources		

olitionbackground/abolitionintro.html



Newsome Academy Year 8 Ethics – Environment

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

- Identify a range of feelings about the natural world
- Explain what creation myths are & their purpose
- Explain religious teachings relevant to the care of the planet

Express & evaluate religious responses to environmental damage

Explain & evaluate two different views about the effect of religion on care of the environment and ways we can look after the environment

Keyword	Definition 🖸	Key Concepts - Stewardship	
Environment	The surroundings or conditions in which a person, animal, or plant lives		All religions believe that we have a responsibility to care for the world and
Environmental	Environmental means relating to or caused by the surroundings in which someone lives.	Stewardship Looking after something for it's real owner. Caring for the Earth on behalf of God.	the environment (including the animals, plants and resources on the Earth). These beliefs are often at the very centre of religious teachings - for example one of the reasons Muslims follow a halal diet is to help to maintain the natural balance or 'fitrah' in the world.
Pollution	Pollution is anything that has harmful or poisonous to the environment.	Environment Everything around us in the natural world. The environment includes people, animals, plants and resources.	However, believing that we should care for the world is not only a religious belief. Many people who do not follow a particular religion - for example
Awe/Wonder	Awe is the feeling we get in the presence of something vast that challenges our	Sustainability Using the Earths' resources in a way which protects the environment for present and future generations.	Humanists - believe strongly that we should protect the earth and its' environment.
	understanding of the world, like looking up at millions of stars in the night sky. When people feel awe, they may use other words to	Wants Luxuries. Things that humans desire but that are not needed for survival.	Christianity
	describe the experience, such as wonder, amazement, surprise, or transcendence.	Needs Necessities Things that we must have in order to survive and thrive.	God made the Earth and gave Christians the special responsibility as Stewards to look after it. They can use the Earth but cannot abuse it. <u>Judaism</u> Jews believe that God created the world and gave human beings a special
Sustainable	Sustainability is the idea that humans must interact with the environment in a way that ensures there will be enough resources left for future generations.	Litter / Fly Tipping Use of chemical insecticides /fertilisers	responsibility within creation to cultivate it, guard it and use it wisely. This is known as stewardship. <u>Buddhism</u> Buddhists believe in the interconnectedness of all things. Humans depend on nature and nature depends on humans. Harming one part of this whole is the same as harming all of it. Therefore, if people learn to live simply
Stewardship	Stewardship means to have responsibility of looking after the world. Christians believe that God gave this word as a gift to look after and to take care of it.	Burning fossil fuels Battery farming Pamaging the Planet Air Pollution Intensive farming	and inharmony with the world, the whole of the environment will benefit. <u>Humanists</u> Because there is no God or supernatural force, human beings must take sole responsibility for solving the world's environmental problems. Only humans are capable of finding the solutions that can lead to a sustainable existence. <u>Sikhism</u> The Guru Granth Sahib teaches that Sikhs show respect and responsibility
Khalifah	Muslims believe that Allah (God) has given this world to look after, similar to the belief in Christianity.	Mass urbanisation Genetically Deforestation Modified	towards creation and bear in mind the needs of future generations, as well as their own current needs. <u>Islam</u> Allah made the Earth and humans have the duty as Khalifahs to care for it and maintain fitrah (natural balance) in the world.
Creation Myths	A story that is used to explain the creation of the world or the role of people in it. They are often colourful sometimes including	Car pollution foods Marine pollution	Hinduism Everything around us is part of the Earth and nature. We should practice Ahimsa – the principle of non-violence – with the Earth. Also, all living thingsin the natural world are sacred because they are part of God.
	supernatural beings like gods and goddesses		



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

- Identify a range of feelings about the natural world
- Explain what creation myths are & their purpose
- Explain religious teachings relevant to the care of the planet

Express & evaluate religious responses to environmental damage

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Explain & evaluate two different views about the effect of religion on care of the environment and ways we can look after the environment

Key Concepts



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

- Identify a range of feelings about the natural world
- Explain what creation myths are & their purpose
- Explain religious teachings relevant to the care of the planet
- Express & evaluate religious responses to environmental damage
- Explain & evaluate two different views about the effect of religion on care of the environment and ways we can look after the environment

Retrieval Practice	Career Focus - Where could this			
Questions	Answers			
What is a creation myth?	A creation myth is a story that is used to explain the creation of the world or the role of people in it. A creation myth is a traditional, ancient story that is fictional, that explains or describes the beginning of humanity, earth, life and the universe.			
What is one Christian belief about looking after the world?	One Christian belief about looking after the world is Stewardship, this means that humans have a responsibility to look after the world.			
Name 2 charities who support looking after the world.	Two charities that support looking after the world and the environment are A Rocha and Islamic Aid.	 Challenge Activities Watch the documentary of off. Research a creation myth Does everyone have a res Create a leaflet for someo 		
Who is David Attenborough?	David Attenborough is an English broadcaster, writer and naturalist. He is a steward and looks after the natural environment which shows in his documentaries.			
What are the effects of air pollution in the world?	Air pollution in both cities and rural areas is causing many issues in human health, such as strokes, heart disease, asthma etc. Pollution in the air also causes the natural environment to decline.			
What does the Buddhist belief of	Humans depend on nature and nature depends on humans –	Topic Links		
'interconnectedness' mean? harming one means harming all.		This topic links to other topics and • Ethics – Animal Rights		
How does the Islamic term fitrah connect with caring for the Earth?				
How does the term 'khalifah' connect to the environment?	In Islam, it refers to the role of human beings as caretakers or stewards of the Earth, entrusted by Allah to look after His creation.	 Argue a point and practise Participate in debates Write PEE sentences/how questions 		

Newsome Academy Year 8 Ethics – Environment

nis take you?



I am an environmental manager. I help take care of our planet by making sure that people and companies are doing things in a way that doesn't harm the environment. I help make plans to reduce pollution, protect wildlife, or conserve resources like water and energy. I believe we have a duty to care for the Earth.

- of David Attenborough and write down how David Attenborough started
- and create a poster.
- sponsibility in looking after the world? Explain your answer in more detail.
- one to explain the key beliefs about looking after the world.

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Topic Links	∂	Additional Resources
 This topic links to other topics and subjects such as: Ethics – Animal Rights Geography Science 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 		To further practise and develop your knowledge see: https://www.bbc.co.uk/bitesize/topics/zkyk8hv https://www.bbc.co.uk/bitesize/topics/zkdk382/articles/z729vk7 https://www.christianaid.org.uk/our- work/about-us/accountability-and- transparency/our-carbon-footprint







- 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

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- The aims of the sequence of learning are to ensure that all students can:
- describe where they and others live.
- talk about the weather.
- Explain what there is to do in their area.

- talk about helping at home
- Use reflexive verbs to describe their daily routine

Explain what there is to do in their area.																	
Keyword Definition		Key Concepts						Sector Sector									
<u>Où</u> habites-tu?		<u>N</u>	<u>Vhere</u> do you live?	Saying where I live			Phonics and Vocabulary										
Elle est <u>co</u> région?	omment ta	<u>v</u>	<u>Vhat</u> is your area like?	Elle est comment, ta région?		•)) oi - (wa)											
	u'est-ce qu'on peut faire à What can you do in uddersfield? Huddersfield?		5			plen de plenty of peu de little, not	touristes tourists	po	oisson	1	e dois	fr <mark>oi</mark> d					
	Quel temps fait-il aWhat is the weather like inHuddersfield?Huddersfield?			ilya	many trop de too	magasins shops	•		T	oDo List	₩						
	qu'on doit faire r à la maison?		Vhat do you have to do to elp at home?	région is	région	région	région	région	région is/ar	région is/are	much/many un a	champ - field lac - lake			Ma rou	itine	
Tu te lèves à quelle heure?.		ə?. V	Vhat time do you get up at?	In my region		une	jardin public - park montagne - mountain plage - beach	je pr			I have break	-					
Qu'est-ce que tu fais le matin?			Vhat do you do in the norning?		a s de	rivière - river bâtiments - buildings	je m	je me douche I have a shower je me coiffe I do my hair je m'habille I get dressed									
Que penses-tu de ta région?			Vhat do you think about our area?		there are no plages - beaches voitures - cars			je me lave les dents je quitte la maison je me lave			I clean my teeth I leave the house I have a wash						
dans - in le désert - the desert		Qu'est-ce qu'on peut faire à Huddersfield?															
				manger des crêpes - eat pancakes				Qu'est-ce qu'on doit faire pour aider à la maison?									
	à la - in the	1.5	ne - countryside	monuments			uisine - do the										
J'habite I live	au - at		e la mer - the seaside	visiter des grottes - visit caves aller au cinéma / à la plage / en ville - go to the — I must Tu dois — faire la vaisselle - do the washing													
	sur - on		- an island		cinema/b	cinema/beach/town		you must		nourrir les animaux - feed the animals							
	en - in		/Suisse - France/Switzerland	On peut You can faire les magasins - go shopping faire des randonnées - go for walks			II doit garder ma soeur - look after my sist										
au - in Marc		Maroc -	- Morocco	you can faire du		aire du canoë-kayak - go canoeing aire du ski - go skiing		– he must		garder mon frère - look after my brother ranger ma chambre - tidy my room							

Newsome Academy Everyone Exceptional Everyday Year 8 Le monde est petit

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

- describe where they and others live.
- talk about the weather.
 - Explain what there is to do in their area.

- talk about helping at home
- Use reflexive verbs to describe their daily routine

Retrieval Practice



Career Focus - Where could this take you?



Questions	Answers		
<u>Où</u> habites-tu?	J'habite à Huddersfield dans le nord de l'Angleterre. C'est une grande ville.		
Elle est comment ta région?	C'est très joli . Il y a beaucoup de <u>champs</u> et il y a aussi <u>des montagnes</u> . Il n'y a pas <u>de lac.</u>		
Qu'est-ce qu'on peut faire à Huddersfield?	À Huddersfield on peut <u>visiter les</u> <u>monuments</u> ou on peut <u>voir un match de</u> <u>foot</u> . Je pense que c'est <u>super!</u>	Challe	
Quel temps fait-il a Huddersfield?	En été <u>il y a du soleil</u> et <u>il fait chaud.</u> En hiver <u>il fait froid</u> et <u>il pleut.</u>		
Qu'est-ce qu'on doit faire pour aider à la maison?	Je dois <u>faire la vaisselle</u> tous les jours. C'est <u>nul!</u>		
Tu te lèves à quelle heure?.	Normalement, je me lève à sept heures.	Торіс	
Qu'est-ce que tu fais <u>le</u> <u>matin?</u>	Je me lève et puis je prends le petit déjeuner . À huit heures je vais au collège.	This to	
Que penses-tu de ta région?	Ma région est très belle . Il y a plein de magasins et restaurants.	All a Hot Tim	



I am a tour guide. I work with people from all over the world and travel to lots of different cities. It helps me that I can speak another language, because I can communicate with people who live in the country I am touring. I can also give tours in different languages.

Challenge Activities

1.



- 2. Make a tourist map of Huddersfield and label things in French.
- 3. Complete the activities on Language nut.

Topic Links	Additional Resources
This topic links to:	To further practise and develop your knowledge see:
 Holidays All about me. 	Language nutActive learn.
HobbiesTime	



Computing

- 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 Everyone Exceptional Everyone Newsome Academy Everyone Ev					
Keyword	Definition	Key Concepts			
Script	The set of instructions used to program in Kodu, usually presented as a collection of tiles that connect with one another using "rules".	Home Move Camera Path Tool			
Rule	Each line of a Kodu program is called a rule. Every rule has a WHEN part and a DO part.	$\land \triangleright \land ? $			
Action	The first tile in the DO part of a rule is the action. Examples include "move" and "eat".	Kodu Play Object Tool Ground Brush			
Object	A 3D graphic that can be programmed in the Kodu world.	Toolbar			
Tile	Each rectangle that appears in a rule is called a tile. A tile contains a picture and an associated word or phrase.	Up/Down Create Valleys Delete Tool			
Sequencing	The specific order in which instructions are performed in a program. If the sequence is incorrect it may cause errors in a program.	🏷 🏷 🏷 🏈 🎾			
Variable	A variable represents a location in memory. It is used to hold a value which you assign to it. This can change as you play your game e.g. 'Points' = 10	Flatten Water World Settings			
Creatable	Characters that do not exist when you start the game. Instead, they are programmed and spawned by other characters as needed.	Controls Moves Land Zoom in/out Object			
Iteration (Loop)	The repetition of a sequence of instructions e.g. use of 'Always' tile in 'WHEN' part of a rule.	Object Wheels			
Condition	The first tile in the WHEN part of a rule is the condition. Examples include "see" and "bump". Conditions can either be true or false, depending on the state of the world.	Rotates Camera			

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

- Describe the Kodu tool bar
- Describe the meaning of a range of different tiles, rules and scripts in Kodu
- Describe the appropriate use of tiles, rules, scripts and settings in Kodu
- Evaluate the use of tiles, rules, scripts and settings used to create a range of games in Kodu
- Describe the definitions of some keywords in Kodu

Retrieval Practice



Career Focus - Where could this take you?



I am a Gameplay designer and work in a team that is responsible for the central part of the game experience - how it plays. My job involves defining the game's structure, its rules, characters, and different modes of play, like story mode or multi-player.

Challenge Activities

covered in this unit.



3. Create a short vlog about the types of careers you could get into within the gaming industry. Explain what you would need to study at college and university to pursue these career paths

Topic Links	Additional Resources
This topic links to:	To further practise and develop your knowledge see:
 Computing Curriculum: Understand how instructions are stored and executed within a computer system 	 <u>https://scratch.mit.edu/</u> <u>https://www.youtube.com/c/ScratchTeam</u>
 Mathematics: use of logical inference, problem- solving skills and simple algebra 	





- > 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.
Newsome . Z Academy Everyone Exceptional Everyday Year 8 Art Day of the Dead

The aims of the sequence of le	arning are to ensure that all students:
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- Describe the day of the dead festival
- Produce and refine new ideas

- Apply techniques to develop drawing skills
- Synthesise a personal response to art work

Keyword	Definition 💽	Key Concepts
Muertos	Spanish for 'dead'	
Dia	Spanish for 'day'	
Festival	a day or period of celebration, typically for religious reasons	
Symbol	a thing that represents or stands for something else, especially a material object representing something abstract.	
Printmaking	the activity or occupation of making pictures or designs by printing them from specially prepared plates or blocks.	
Tone	the relative lightness or darkness of a colour	
Colour	an element consisting of hues, of which there are three properties: hue, chroma or intensity, and value	
Composition	Arrangement of elements within a work of art	
Personal Response	Creating your own piece of artwork in response to a theme/artists/style	Competence





SCAN ME

Scan the QR Code to take you to the National Geographic websites Top 10 things to know about the Day of the Dead.





The Day of the Dead (Spanish: Día de Muertos) is a Mexican holiday celebrated throughout Mexico, and by people of Mexican heritage elsewhere. The multi-day holiday involves family and friends gathering to pray for and remember friends and family members who have died, and helping support their spiritual journey. In Mexican culture, death is viewed as a natural part of the human cycle. Mexicans view it not as a day of sadness but as a day of celebration because their loved ones awaken and celebrate with them

It is colourful, bright and cheery but with a theme of skulls and skeletons. The shapes, colours, forms and patterns of the Day of Dead provide us with lots of inspiration to make our textile art.



Newsome Academy Everyone Exceptional Everyday Year 8 Art Day of the Dead

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

• Describe the day of the dead festival

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• Produce and refine new ideas

Retrieval Practice

Questions	Answers
When is the day of the dead?	A Mexican holiday traditionally celebrated on November 1st and 2 nd .
What are calaca and calavera?	These are representations of a human skeleton and skull
What is tone?	Tone refers to how light or dark something is. Tones could refer to black, white and the grey tones between. It could refer to how light or dark a colour appears.
What is block colour?	A colour in a single tone, with no variation
What is block print?	This is the process of carving patterns, shapes and designs into a 'block'. The 'block' could be made of wood, lino, metal or polystyrene
What is composition?	This is the arrangement of elements within a work of art

Career Focus - Where could this take you?



I am a **graphic novelist** so I get to spend my day creating new ideas and stories before bringing them to life with my illustrations and storyboards.

Challenge Activities

Scan the QR Code and watch the video about how the film Coco has honoured the day of the dead celebration. Once you have watched the video make a list of the main aspects of the day of the dead celebration and put into your own words how Coco has portrayed the celebration.



Topic Links	∂	Additional Resources	
 This topic links to: MFL – cultural holidays and celebrations RE – cultural holidays and celebrations 		To further practise and develop you knowledge see: the QR Code to take you to a video from The British Museum about the Day of the Dead celebration.	
			SCAN ME





Year 8 Working with a theme and Stimulus

- The aims of the sequence of learning are to ensure that all students:
- Replicate a set phrase of movement
- Select and apply a formation to my performance

- Recognise key dance elements in a performance.
- Recognise elements in a performance and describe them.
- Apply choreographic devices to enhance my choreographed routines

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Keyword	Definition 🔹	I
Choreographic Intention	What it makes the audience think, see and feel	
Projection	The energy the dancer uses to connect with and draw the audience in	
Dynamics	The quality of the movement	
Focus	Where the audience looks	
Cannon	One after the other	
Facial Expression	Shows the mood of the character	
Physical Skill	Is a skill that can be developed over time	
Retrograde	Perform the movements backward, like a film on rewind	
Repetition	To repeat part of the motif. Either straight after it is performed or later on in the dance.	
Accumulation	Dancers gradually joining in with a phrase of movement	
Levels	Dancers change the level a movement is performed on	
Direction	Performing or travelling the movement facing a different way	
Size	To change the size of a motif or movement(small becomes large, large becomes small)	
Juxtaposition	Half the group performs one part of the motif while the others perform something different	
Canon	Dancers performing the same movements or phrase of movement with a time delay	
Mirroring	Like a mirror image. Movement is performed on the left by some and the right by others	







Year 8 Working with a theme and Stimulus

- The aims of the sequence of learning are to ensure that all students: Replicate a set phrase of movement
- Select and apply a formation to my performance

- Recognise key dance elements in a performance.
- Recognise elements in a performance and describe them.
- Apply choreographic devices to enhance my choreographed routines

Retrieval Practice



Career Focus - Where could this take you?



My job is fight choreographer. I use movement and motifs to choreograph different scenes to ensure they look believable and are engaging whether on screen or in the theatre.

Challenge Activities

Maths - Problem solving

Dance Quiz Choreography - Jay Revell Choreography - Kyle Hanagami ∂ 18) **Additional Resources Topic Links** To further practise and develop you knowledge see: This topic links to: Drama Performance skills https://www.aga.org.uk/resources/dance/gcse/dan PE - Physical skills ce/teach/subject-specific-vocabulary

https://www.onedanceuk.org/wp-English - Understanding terminology and verbs. content/uploads/2016/03/Motif-and-developmentfor-NDTA.pdf



Year 8 School of Rock

The aims of the sequence of learning are to ensure that all students: Be able to replicate a set phrase. Be able to develop my dance using different choreographic devices

Keyword	Definition	Key Concepts	
Six basic Actions	Travel , Turn, Jump, Gesture, Stillness, Transfer of weight.	Performance Skills Performance Skills -: Performance skills are those used during a performance they set dancing apart	Physical skills Physical skill: A Physical skill is a skill that can be
Choreographic Intention	T make the audience think see and feel.	from mechanical movement they draw the audience's attention and helps to show mood and meaning. Timing : Moving to the beat of the movement.	developed over time. Stamina: The ability to keep energy going over time.
Gesture	A movement that doesn't transfer weight.	 Confidence : Showing you know what you are doing and where you should be. Energy: Performing all movements with as much effort as possible. 	Flexibility : The range of movement around a joint. Strength : A combination of maximum speed and power.
Dynamics	Quality of movement. How you move.	Accuracy: Making sure movements are they way they were taught.	Coordination : The ability to move two or more body parts at the same time to create a movement.
Unison	All together at the same time.	Focus: Where the dancer looks. Into space, at the audience, Another dancer, A body part.	Balance: The ability to maintain a centre of mass over a base whilst stationary (Static) or during movement (dynamic)
Cannon	One movement after the other.	 Facial Expression : Showing the mood of the character. Dynamics : The quality of the movement. Speed : How fast or slow a movement is. 	Power : Is a combination of using speed and strength Reaction time : The time it takes for you to respond to a stimulus.
Speed	How fast or slow a movement is.		



Year 8 School of Rock

The aims of the sequence of learning are to ensure that all students: Be able to replicate a set phrase. Be able to develop my dance using different choreographic devices

Retrieval Practice

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Questions	Answers
What is musical Theatre?	A story told through Music dance and drama.
What is a theme ?	A reoccurring idea that runs through the dance.
What is a Stimulus ?	An initial idea or starting point.
What is choreography?	The art of making dancers.
What is a motif ?	A motif is a movement phrase (a short dance) that can be repeated and developed throughout the dance.

Career Focus - Where could this take you?



I am a **camera man**. I use my knowledge of performance and choreography to ensure I take the best shots and my angles highlight the best features of the performance.

Challenge Activities

Stick it to the man

School of rock trailer.

School of rock worksheet

Topic Links	Additional Resources
This topic links to:	To further practise and develop your knowledge see:
 Drama Performance skills PE - Physical skills English - Understanding terminology and verbs. Maths - Problem solving. 	 <u>https://www.onedanceuk.org/</u>

Newsome Academy

Year 8 Traditional Theatre

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

- develop knowledge of Pantomime elements
- develop Pantomime skills and techniques

use appropriate skills in performance/presentation

Keyword	Definition	Key Concepts	
Direct address	When an actor speaks directly to the audience, e.g. in pantomime.	STOCK CHARACTERS	These characters appear in all
Body Language	The way our bodies communicate a character's attitudes. Using your body to show emotions or hidden feelings.		pantomimes but have different names to suit the individual pantomime story they are in.
Facial expression	Using the face to express that character's feelings and emotions.	HERO ANIMAL DAME VILL	AIN
Stock characters	Fictional characters that rely on stereotypes and appear in all pantomimes.	CONVENTIONS OF PANTOMIME	ACTING SKILLS Facial expression
Slapstick	A style of physical comedy used in films, drama and pantomime.	Main boy usually played by a woman	Voice
Levels	How the actors sit, kneel or stand on stage, to show status.	Main woman 'dame' usually played by a man	Gesture
Gesture	An expressive movement of the body, or something that is said or done to show a feeling, i.e. a wave.	 Fairy enters stage right Villain enters stage left Music/ singing/dance 	Stance Reacting
Projection	Speaking loud enough for the audience to hear you.	 Comedy/humour - 'slapstick' Audience participation 	Movement
Pause	Pausing lines to create dramatic effect such as tension	 Based on a fairytale Good always beats evil 	Levels
Pace	The speed in which an actor delivers their lines.	♦ Costumes/set are OTT	Motivation 🗳 🍗



Year 8 Traditional Theatre

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

- develop knowledge of Pantomime elements
 - develop Pantomime skills and techniques

use appropriate skills in performance/presentation

Retrieval Practice

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Questions	Answers
What are pantomimes based on?	Pantomimes are based on fairy stories and traditional folk tales.
When are pantomimes usually performed to audiences?	In England, pantomimes are usually performed around the Christmas period.
What is audience participation?	When a character on stage asks or invites the audience to make a response to a question or instruction. For example: 'Where is he?' - 'He's behind you!'
What is 'slapstick'?	A style of physical comedy used in films, drama and pantomime.
Who are the stock characters in an English pantomime?	The Hero. The Dame. The Animal. The Villian. The love interest (leading female character).
Which sides of the stage do the good characters and the evil characters enter from?	Good characters enter from stage right and Evil characters enter from stage left.
What is a monologue in a pantomime?	A speech delivered by one character. In pantomime it is used to introduce a character, explain a situation or develop the plotline (story)
What is Commedia del arte?	Commedia del arte is a traditional form of theatre that originates in Italy.

Career Focus - A Foley Artist - Where could this take you?



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In the world of film, a foley artist reproduces everyday sounds that are added to films, videos and other media in post-production to enhance audio quality. These reproduced sounds, named after sound-effects artist Jack Foley, can be anything from the swishing of clothing and footsteps to squeaky doors and breaking glass. Foley sounds are used to enhance the auditory experience of the movie. Foley can also be used to cover up unwanted sounds captured on the set during filming.

Challenge Activities



- Using your knowledge of pantomimes and stock characters, write an opening monologue for a main character in a pantomime of your choice.
- Write a scene for a pantomime of your choice.
- Design a stage set for a scene from a pantomime, or a costume for a pantomime character.

Topic Links	∂	Additional Resources
 This topic links to: English language and Literature History Dance Music Art and Design Geography 		To further practise and develop your knowledge see: Watch the Drama Pantomime workshop on this youtube link <u>https://youtu.be/jm0Zw5pLfxl</u>



Year 8 Food Tech

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

- Define the terms nutrient, macronutrient and micronutrient
- Describe the function of nutrients in the body

• Describe the consequences of an unbalanced diet

Keyword	Definition 💽	Key Concepts						Sec.
Nutrition	The study of what people eat and how nutrients in foods work together in the body	Vitamin	Micronutrients Role in the body	Food examples		Macro Nutrient	Nutrients Role in the body	Food Example
Nutrients	Natural chemical substances in food that are essential for body growth, function and health	A	Helps to keep the eyes healthy and strengthen the	Dark green leafy vegetables, carrots, liver		Carbohydrate	The main source of energy for the body	Bread, rice, pasta, potatoes
Macronutrient	Nutrients that are required in large quantities by the body	B.	immune system Helps to	Bread, milk,		Protein.	Provides the body with growth and	Meat, poultry, beans, eggs, lentils, tofu,
Micronutrient	Nutrients that are required in small quantities by the body		release the energy from the food we	cereals, fish, meat		Fat	repair Provides the	fish Butter, oil,
Malnutrition	Malnutrition refers to deficiencies, excesses or imbalances in a person's intake of energy and/or nutrients	C.	eat Help with skin healing and healthy skin. Help with the	Fresh fruit, broccoli, tomatoes			body with insulation and a small amount protects vital	cheese, cream, nuts, oily fish, crisps
Mineral	a solid, naturally occurring inorganic substance.	D.	absorption of Iron Important for	Oily fish, eggs,	Do you think y	you have A Food INTOLERANCE	organs. Provides essential fatty	
Vitamin	any of a group of organic compounds which are essential for normal growth and nutrition and are required in small quantities in the diet because they cannot be synthesized by the body.	GLUTEN PEANUTS	absorbing calcium and help with healthy bone structure.	butter, Sunshine	CR A real Alary In classical Carteria Immune System Food Allergies Cart be Fatal		acids for the body. The allergen co identified in bol <u>underlined</u> or in	d , highlighted,



Year 8 Food Tech

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

• Define the terms nutrient, macronutrient and micronutrient

• Describe the function of nutrients in the body

• Describe the consequences of an unbalanced diet

Retrieval Practice					235	NGR I
Questions	Answers					
What are nutrients?	Nutrients are the building blocks that make up food and have specific and important roles to play in the body. Some nutrients provide energy while others are essential for growth and maintenance of the body.					
What do vitamins do?	They help to keep our immune system up and help our body to stay healthy – they are important for body maintenance					
What do minerals do?	Help to keep our immune system up and help our body to stay healthy. Vitamins and minerals are Micronutrients.					5
What is a food allergy?	Food Allergy is an immune reaction by the body against a particular food. Symptoms of a person having an allergic reaction can include: Rash Itchiness Vomiting Swelling of ; lips/face/throat Difficulty breathing If untreated, a person can go into anaphylactic shock and can die from an allergic reaction.					ın
What should you do if someone has an allergic reaction?	If you suspect someone is having an allergic reaction you must seek help. They will either need to take antihistamine if the reaction is mild (e.g. just a skin rash) OR they will need to have adrenaline administered by injection (e.g. by EpiPen) if their reaction is severe - in which case an ambulance must be called.					
What are the most common foods that cause allergies?	Foods containing gluten, present in wheat, barley and rye Peanuts Celery	Crustaceans Crustaceans Soybeans Mustard	Eggs Milk Sesame seeds	Fish Nuts Sulphur dioxide	Lupin Molluscs	
				-	I	

Career Focus - Where could this take you?





In my role as a **nutritionist** I use nutrition to promote health and manage disease. I help people to plan their diet and nutritional programmes to help them lead healthy lives.

Challenge Activities



Produce an information leaflet to encourage teenagers to eat a wide range of nutrients, include information on malnutrition.

Topic Links	Additional Resources
This topic links to:	To further practise and develop you knowledge see:
Science - to be curious about how to maintain a healthy, balanced diet, in both a theoretical and practical context.	Nutrition, digestion and excretion
PE - to promote lifelong participation in physical activity alongside leading creative and healthy active lifestyles.	Healthy diet
Understanding how your body works, working with others and being physically active are a crucial part of leading a healthy happy life	Balanced Diet

Newsome Academy Everyone Everyona Everyone Everyone

Year 8 Keyboard Skills and Blues Music

Keyword	Definition 📧
Stave	Five lines and four spaces on which we write musical notes
Treble Clef	A musical symbol that indicates the pitches of notes above middle C
Barline	A vertical line that separates bars in music
Pitch	How high or low a sound is
Rest	When we do not play on a beat
Technique	The way in which we play the musical instrument
Fluent	To perform without hesitation
Accuracy	To perform with accurate pitches, rhythms and technique
Walking bassline	A bass pattern used in Blues music where the notes walk up and down the instrument
Improvisation	To make something up as you go along
Work song	A song that is sung whilst people work
Guitar	A string instrument with six strings, used in Blues music
Chord	Two or more pitches at the same time
Minor	A sad sounding chord
Triad	A chord with three notes
Major	A happy and bright sounding chord





Learning Objectives

Keyboard Skills

What a stave is and how to read basic notation Keyboard technique including 5 finger position, scales and fingerings What a chord is a how they are built – the three main Primary chords C, F and G as well as A minor

To perform either the bass line, chords or melody of Stand By me using keyboard technique

The Blues

Learn and understand how Blues music developed, the typical instruments used and some of the musical features.

Identify musical features within Blues music and explain the musical features that make it Blues music

Perform the 12 bar blues chord sequence accurately, fluently and confidently. I can repeat the 12 bar blues.

Learn how to perform a blues style bass line

Learn what improvisation is and how to do this using the blues scale





Year 8 Keyboard Skills and Blues Music



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Play the cho	12 Bar Blues with a walking bass line C = C E G Play the chord with your right hand Eb Bb F = F A C G = G B D G = G B D				
Play the base	C CEGA	C D E F G A B C Bb A G E	CEGA	C Bb A G E	
line with you		F	С	C	
left hand		Eb D C A	седа	Bb A G E	
	G	F	С	G	
	G B D B	F A C A	се	G B D B	

THE BLUES SCALE

Career Focus - Where could this take you?



I am a professional musician, being proficient on a musical instrument is essential. This comes through lots of practice, and making sure technique is excellent. The ability to read music makes it easier to play different pieces of music more quickly. Otherwise you have to copy what you hear. Some musicians do play by ear, however and many Blues Musicians will have never read music.

Challenge Activities

Work through this worksheet to help you learn the notes on a stave KEYBOARDSKILLSTHEORY1.docx

And now have a go at this quiz! Keyboard Topic Quiz

Read this information on a piece of music and listen to it using the following link: <u>Debussy - La cathédrale engloutie</u> Think about how Debusy has used the piece to create the impression of a suplice esthere

Think about how Debussy has used the piano to create the *impression* of a sunken cathedral. You can write up your thoughts as a mind map.

Topic Links	Additional Resources
Band Skills Rhythm & Pulse Geography - understanding the movement of people from Africa to America and other parts of the world History - learning about the Slave Trade Literacy - keywords and spellings Numeracy - Counting, rhythm, understanding patterns	Listen to these songs: Stormy Monday - BB King Crossroad Blues – Robert Johnson Bessie Smith - Nobody Knows You When You're Down and Out Billie Holiday - Lady Sings The Blues



Newsome Academy Everyone Exceptional Everyday

Year 8 Exploring World Music Theory

The learning outcomes for this topic are:

- Explore a wide range of music from different cultures.
- Understand scales and be able to use them when composing music

Further Listening

'Norwegian Wood' The Beatles – A western, pop interpretation of a raga.

'Work' (Freemasons Remix) Kelly Rowland – Includes elements of Indian Raga and traditional Indian instruments

'Buffalo Soldier' by Bob Marley and the Wailers

Career Focus - Where could this take you?

Every culture developed an

independently. Because of this, some cultures make music

differently to the way we do in

foreign language into one we

It's similar to translating a

can understand.

understanding of music



At Newsome, British values are the school values. Respect and tolerance are one of those core British values. We can only scratch the surface of some of the unique and vibrant music from different cultures around the world in one unit of work. It is still important that we learn as much as we can. Different people around the world have many different ideas for how to make music. This unit will open you up to a wide variety of different musical styles and challenges and will improve your ability to adapt and improvise.

Topic Links	Additional Resources
 This topic links to other topics such as: Geography RSHE – Learning about the cultural, historical and religious background of India, Jamaica and China. Drama Maths – sequences and patterns in scales 	BBC Bitesize – <u>https://www.bbc.co.uk/bitesize/guides/z6ch8xs/revision</u> /4 Free online djembe lessons and information: <u>https://afrodrumming.com/</u>

Keyword	Definition
Scale	A pattern of notes increasing or decreasing in pitch. T = Whole Tone S = Semitone
Major Scale	The pattern for the major scale is: T, T, S, T, T, T, S
Minor Scale	The pattern of the minor scale is: T $-$ S $-$ T $-$ T $-$ T $-$ T $-$ S
Pentatonic scale	A scale that uses only five notes. The pentatonic scale uses the root, second, third, fifth, and sixth of a scale
Enharmonic	relating to or denoting notes which are the same in pitch (in modern tuning) though bearing different names (e.g. F sharp and G flat or B and C flat).
Off Beat	When beats 2 and 4 are accented/emphasised.
Drone	A note that is sustained for a long time. Usually quite low in pitch.
Melody	The main tune of a piece of music
Raga	A type of Indian scale
Reggae	A popular style of music from Jamaica



Year 8 World Music Theory - Chinese

The learning outcomes for this topic are:

Key Concepts - Scales

- Explore a wide range of music from different cultures.
- Understand scales and be able to use them when composing music

Popular Chinese Instruments:



The C Major Scale Tone Tone Semitone Tone Tone Semitone C D E F G A B C 1 2 3 4 5 6 7 8

A scale is a sequence of notes that go up in pitch. Every scale follows a pattern of steps. The pattern for a major scale is: T, T, S, T, T, T, S



Each step in a scale is called a scale degree. A pentatonic scale is a scale that misses out the 4^{th} and 7^{th} scale degree

Year 8 World Music Theory - Indian

The learning outcomes for this topic are:

Explore a wide range of music from different cultures.

Key Concepts – Tones and Semitiones

Understand scales and be able to use them when composing music

Indian Ragas

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Semitones B to C F# to G

If we move from one key to the very next key on a piano, we call this a semitone (S)



If we move up two keys on a piano we call this a Tone (T)



Year 8 World Music Theory - Jamaican

The learning outcomes for this topic are:

- Explore a wide range of music from different cultures.
- Understand scales and be able to use them when composing music

The Evolution of Reggae

Mento - 1950s	Ska – Early 1960s	Rocksteady – Late 1960s	Reggae – Late 1960s to 1980s	
 Jamaican folk music Banjo accompaniment Fast tempo Lighthearted lyrics Bass lines played on double bass 	 Walking bass line Electric and brass instruments Fast tempo Lyrics about social issues 	 Mainly electric instruments Lots of electric bass riffs Slow tempo Drums often miss out the first beat of every bar 	 Jamaican folk music Lots of bass riffs Slow tempo Lyrics about social issues, love, peace, religion, war. 	
(1	

'Three Little Birds' by Bob Marley and the Wailers Chorus



The Offbeat

In most western music beats 1 and 3 are usually given emphasis. Beats 2 and 4 are called the offbeat. In most Jamaican music (especially reggae) the emphasis is given to beats 2 and 4. In 'Three Little Birds' (left) the chords are placed on beats 2 and 4 to give this song it's typical reggae rhythm.

Further Listening

'You Can Get It If You Really Want It' by Desmond Decker

'Baby I Love Your Way' by Big Mountain. A reggae cover of a non-reggae song

'Superman' by Goldfinger. A more modern genre called ska punk that fuses ska with pop and punk.



Challenge Activities

Listen to 'I Can't Help Falling in Love With You' by Elvis Presley and compare it to the reggae cover version by UB40. What reggae features does the UB40 version include?

Newsome Academy Vear 8 - Band Skills: Hooks and Riffs

🍫 😚

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

are able to compose a pop riffs and hooks through understanding of common writing techniques • Increase confidence by performing to others

Keyword	Definition	Career Focus - Where could this ta	ke you?		
Riff	A short, repeated, 'catchy' phrase in popular music, typically used as an introduction or refrain in a song. Often played on a guitar	to rehearsals, gig While we don't alv difficulties and lea Through the year coming up with id had to organise g well as spreading people who do th being in a band, s		and will really strengthen your time management. Getting s, gigs and studio sessions on time is vital in our band. In't always get along, we have to overcome these nd learn to work well with others. If years we have developed our creative thinking skills by with ideas and writing over 150 songs! In the early days we have gigs, rehearsal spaces and recording studio time as ading the word about our gigs and albums. Now we employ do this for us. There are many music careers aside from and, such as: Promotion, marketing, roadies, live/studio our bus drivers, band management, song writers, stylists hore.	
Hook	A short riff, passage, or phrase, that is used in popular music to make a song appealing, memorable and "catchy".				
Кеу	The main group of notes/pitches that are used throughout a piece of music.	Challenge Activities 1. Create your own guitar or piano riff using a scale (eg. Pentatonic, Minor). 2. Here is a compilation of riffs played using the pentatonic scale. See how many you can play on an instrument https://www.youtube.com/watch?v=9teYiPih-X8&ab_channel=MartyMusic Further listening: Famous Guitar Riffs: The White Stripes - 'Seven Nation Army', Deep Purple – 'Smoke on the water' Famous Bass Riffs: Queen – 'Another One Bites The Dust' Pink Floyd – 'Money' Famous Keyboard Riffs: Van Halen – 'Jump' Prince – '1999'			
Composition	a song or piece of music				
Ensemble	A group of musicians			,	
Band	A group of musicians. (Most often used in pop music)				
		Topic Links	Ô	Additional Resources	
Rehearsal	A set time a band get together to practise and learn their songs.	 This topic links to other topics such as: Drama – General skills (voice projection, stage presence costumes) Music – Voice 21 Oracy skills (through performance) 		BBC Bitesize: https://www.bbc.co.uk/bitesize/guides/z6ch8xs/revision/4	
Performance	When a musician or group of musicians play music, usually to an audience.			Billboard list of the 25 catchiest hooks ever: https://www.billboard.com/music/music-news/greatest- catchiest-pop-hooks-ever-6731053/	



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

- are able to compose a pop riffs and hooks through understanding of common writing techniques
- Increase confidence by performing to others

Key Concepts



Newsome Academy Everyone Exceptional Everyday Year 8 Health and Fitness

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

Being a ble to demonstrate the: set up, completion and interpretation of fitness tests. Learning about and understanding the components of fitness and how they can be trained. Learning which components of fitness are important to specific types of athlete. Learning about and completing training sessions to train specific components of fitness. Learning how to live a healthy, active lifestyle.

Keyword	Definition 😡
Power	The maximum strength and maximum speed of your muscles in order to move an object or yourselfforward. Power = strength x speed.
Co-ordination	The ability for muscles to work together in pairs to move different body parts in time.
Reaction Time	The time taken for a person to react to a stimulus.
Agility	The ability to change direction at speed without making a mistake in your performance.
Balance	The ability to maintain your centre of mass and control without falling over.
Speed	To moves as fast as possible over a distance in the shortest time.
	Speed=distance/time.
Cardiovascular endurance	The ability for the heart and blood vessels to transport oxygenated blood to the working muscles in sports performance so a person can work for a long time without getting tired.
Muscular strength	The maximum force that your muscles can make to move an object.
Muscular endurance	Your muscles can work continuously at moderate intensity for a long period of time without them getting tired.
Flexibility	This is the range of movement that can be performed around a joint by the muscles.
Body composition	This is the total amount of fat, bone and muscles of a person's body.

Key Concepts You should already know: - Some components of fitness and be able to apply them to a healthy and active lifestyle You will be assessed on: - Understanding - Technique - Application - Leadership



Health and Fitness Key Concepts TRAINING METHODS Different sports require different training methods. As a result, sports performers must select training methods that are specific or can be adapted to their chosen activity.



- CONTINUOUS

- Long periods of moderate work, without rest.
- Improves cardiovascular fitness and muscle endurance.
- Suitable for distance runners and tri-athletes.

-FARTLEK (SPEED PLAY)-

- A continuous workout, involving changes in speed and/or terrain.
- Improves recovery time and both aerobic and anaerobic fitness.
- Suitable for cross country runners and team games involving changes in speed.

-CIRCUIT-

- A series of exercises performed in a circuit.
 Improves cardiovascular endurance and muscular endurance.
 - Excellent for general fitness and can be structured to suit most sports.

-INTERVAL

- Involves alternating periods of work and rest.
- Can be used to improve speed, recovery time, and aerobic and anaerobic fitness.
- Suitable for team games involving short bursts
- of speed.



FLEXIBILITY/MOBILITY

- Stretching methods including static, dynamic and Proprioceptive Neuromuscular Facilitation (PNF).
- Improves range of movement, reducing the chance of injury.
- Beneficial for all sporting activities, in particular gymnastics and dance.

WEIGHT TRAINING

- A workout using weights as a form of resistance.
- Can be tailored to improve muscular endurance, power and strength.
- Suitable for all activities and general fitness/toning.

PLYOMETRICS



- A series of explosive movements such as jumps, bounds, hops etc.
- Improves power.
- Excellent for activities that require explosive strength, e.g. long/high jump.

-SAQ (SPEED, AGILITY, QUICKNESS)-



- Exercises aimed at activating neural pathways.
- Improves speed, agility and quickness.
- Suitable for team games involving changes in direction.



Academy Year 8 Health and Fitness

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

Being a ble to demonstrate the: set up, completion and interpretation of fitness tests. Learning about and understanding the components of fitness and how they can be trained. Learning which components of fitness are important to specific types of athlete. Learning a bout and completing training sessions to train specific components of fitness. Learning how to live a healthy, active lifestyle.

Retrieval Practice:

Unscramble the component of fitness keywords and match them to the correct definitions



COMPONENT OF FITNESS SHGTERNT

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WEPOR

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LIYAGIT

NOCARDOINTIO

CREATION MEIT

PESED

BOYD MOPOSTINICO

MULSCURA EECNDANUR

DEFINITION

When one or muscles contract repeatedly when lifting or moving, for a certain length of time. The amount of body fat compared to musclein the body.

When the body has to exert a force against resistance.

How fast the body can move from A to B or perform an action until it's complete.

The amount/range of movement around a joint.

The time it takes for the body to respond to a stimulus.

When a sequence of movements are performed smoothly and accurately together. The rate at which work is performed often strength x speed = this

The ability to maintain your centre of gravity when standing still or moving.

Being able to change direction whilst keeping the body under control.

When the body is working at a level that demands the need for more oxygen.

Career Focus - Where could this take you?



My career is known as a personal trainer. My job is to carry out various tasks, starting from assessing my clients' physical condition and creating unique workout routines for them. I explain the exercises in a clear and efficient way, while demonstrating how to use the training equipment safely and how to avoid injuries . I also help with giving advice on lifestyle choices linked to nutrition and healthy eating habits.

Challenge Activities



Design a training programme:-

Can you create a 4-week training programme that shows 5 different exercises that get progressively harder each week. Use the example provided on the previous page for guidance.

Create a match the keywords to definition poster:-

Select between four to six different keywords and match them to the correct definition answers. Make sure on the reverse of your skill card you have included the correct answers so students can test and assess themselves and others.

Topic Links	Additional Resources
This topic links to: •RSHE – Understanding how physical activity can reduce	To further practise and develop your knowledge see:
stress and anxiety and promote physical, mental and social wellbeing	https://www.topendsports.com/testing/tests/
 English – understanding and defining key terminology Mathematics – problem solving, recording figures and a nalysing performance. Voice 21 – testing others in the class on keywords. 	https://www.teachpe.com/training-fitness/fitness-testing



Year 8 Trampolining

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

- Identify at least 5 core trampolining skills.
- Demonstrate core skills such as a seat drop.

Demonstrate a 7 bounce routine. Lead a small group of peers in a drill.

鸏

Keyword	Definition 🔹	Key Concepts	
		Plantar-flexion occurs at the ankle to	Ī
Spotting	Standing around the trampoline to help prevent the performer from falling.	Plantar - flexion allow you to point your toes. Why do your toes need to be pointed when performing on the trampoline?	
Aesthetic	The way something looks/something looking artistic.		
Flexibility	The range of motion allowed at a joint.	Le lite is	
Pike	Jumping with the legs extended out in front of the body and toes pointed.	Above shows the basic biomechanics of the seat drop. By	/
Tuck	Jumping with the knees flexed and toes pointed down.	Peer feedback sentence starters: the end of the block, you should be able to master this skill.	
Straddle	Jumping with the legs extended diagonally from the hips.	 I really liked how you For your next performance try to To improve your aesthetics try to 	
Feedback	Information given to an individual/team about their performance.	 You showed great What you should already know: At least 4 core trampolining skills. Demonstrate a 5 bounce routine. 	
Bounce count	The amount of times the bed is touched during a routine.		
Parallel	Straight lines that do not intersect.	Voice 21	

Newsome Academy Everyone Exceptional Everyday

Year 8 Trampolining

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

Identify at least 5 core trampolining skills.

<u>3</u>8

• Demonstrate core skills such as a seat drop.

Demonstrate a 7 bounce routine. Lead a small group of peers in a drill.

Retrieval Practice

Questions	Answers
Why does a trampolinist require good flexibility?	Without flexibility, a trampolinist will struggle to perform their moves aesthetically due to a lack of pointed toes and straight body lines.
Explain the importance of an aesthetic performance.	An aesthetic performance is important as it allows people to fully enjoy the performance and ensures the performance looks good to the audience.
Why does a seat drop require good core strength?	Because without good core strength, the body will not stay tense and upright.
Give 3 safety points for trampolining.	All jewellery removed, hair tied back, socks worn.
Explain the term tuck	Jumping with the knees flexed and toes pointed down.
Why do your toes need to be pointed when performing on the trampoline?	Pointing your toes while performing on the trampoline helps you to maintain control and balance in the air and can help to prevent injuries by keeping your legs and feet in the correct position.

Career Focus - Where could this take you?



As a trampoline tester, my job is to test trampolines to make sure they are safe and fun to use. I try out different types and sizes of trampolines to make sure they meet certain standards for safety and performance. I also check for any defects or problems that could make the trampoline dangerous to use. This job requires an eye for detail and a willingness to follow rules and procedures.

Challenge Activities



Create:

- Create an 8 bounce routine using the correct trampolining terminology. You can use this routine in class so make sure it only has skills in which you can perform. Try to include at least 2 different shapes.
- Research Olympic trampolinist Bryony Page and create a fact file page on her.

Topic Links	∂	Additional Resources
 This topic links to: Science – anatomy and physiology Maths – Angles Voice 21 – verbal feedback to peers English – understanding and defining key terminology 		 To further practise and develop your knowledge see: https://www.bbc.co.uk/bitesize/guides/z39ck7h/rev ision/1 https://en.wikipedia.org/wiki/Trampolining_terms





Usernames and Passwords

Newsome Academy

RESPECT I INTEGRITY I TEAMWORK I ASPIRATION

FAIL EARLY - FAIL FORWARD - FAIL OFTEN | SEIZE EVERY MINUTE | BE BRAVE - BE PRESENT - BE YOU

NON NEGOTIABLE EQUIPMENT



<u>BONUS ITEMS</u> HIGHLIGHTER | RUBBER | GLUE STICK | CALCULATOR RULER

PENCI

PLACE YOUR EQUIPMENT ON THE PLACEMAT TO SHOW YOUR TEACHER YOU ARE PREPARED AND READY FOR LEARNING