Year 7 – HT4



Knowledge Organisers

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Team:



Mathematics

Our students will:

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

Academy Year 7 – Fractions & Percentages of Amounts

To perform all four operations with directed numbers. To be able to find and use equivalence to add and subtract fractions

The wording of the question is important to setting up the bor model

Find the percentage of an amount (Calculator methods)

What do I need to be able to do?

But he end of this unit you should be able to:

- Find a fraction of a guen amount
- Use a given fraction to find the whole or other
- Find the percentage of an amount using mental methods
- Find the percentage of a guen amount using a

Keywords

Fractions how many parts of a whole we have

Excludent: of equal value

Whole: a number with no fractional or decimal part.

Percentage: parts per 100 (uses the / sumbol)

Place Value: the value of a digit depending on its place in a number. In our decimal number system, each place is 10 times bigger than the place to its right.

Convert change into an equivalent representation, often fraction to decimal to a percentage cycle.

Fraction of a given amount The bor represents the whole amount Find 2 of £205 В Use bor models for comparisons 1 of 90 - 30 2 out of the 5 equal parts 2 of 45 - 30 £205 + 5 - £41 2x £41 - £82 $\frac{1}{2}$ of $90 = \frac{2}{2}$ of 45Each part of the bar model represents £41

70 + 2 - 35

Each part of the bar

model represents 35.

Career Focus - Where could this take you?





As an engineer, I use basic operation (addition, subtraction, multiplication, division) as well as fractions in order to design efficient and powerful engines

Retrieval Practice

Work out 654 - 99

Write $\frac{3}{4}$ as a percentage.

Write "three hundred million" in figures.

Work out 10a + 7 when a = 12

Challenge Activities



A rope measures 2.8 metres.



The rope is cut into 10 equal sized pieces.

What is the total length of 5 of these pieces?

Topic Links



This topic links to:

Ratio, multiplication & division, and decimals

Additional Resources



To further practice and develop your knowledge see: https://corbettmaths.com/contents/

Number: 137, 234-235

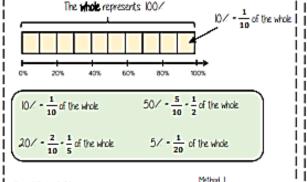
Find the percentage of an amount (Mental methods)

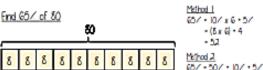
35 x 3 - 105

The whole number is 105

Use a fraction of amount

of a value is 70 What is the whole number?





For boyer percentages it is sometimes easier to take away from

Type 65 Press (SHFT) ((%)

- 40 + 5 + 4

Press 🗶 80 and then press =

 $\frac{3}{2}$ of a number is 63.

What is $\frac{1}{6}$ of the number?

Using a multipler

0.65 x 80 - 52

Using the percent button

Find 65% of 80

cabulator to support noncalculator methods and find 1/ or 10/ then odd. percentages together

You can also use the

Fraction, decimal percentage conversion.

This brings up the / button on screen

You will see 65%

Find the whole

Use the

whole to

find a given

"of" can represent "x" in calculator methods



Academy Year 7 – Operations & Equations with Directed Number

- To perform all four operations with directed numbers.
- To be able to find and use equivalence to add and subtract fractions.

What do I need to be able to do?

Buthe end of this unit you should be able to:

- Perform calculations that cross zero
- Odd/ Subtract directed numbers
- Multiplu/ Divide directed numbers
- Evaluate algebraic expressions
- Solve two-step equations
- Use order of operations with directed number

Keywor<u>ds</u>

Subtract: taking away one number from another.

Negative: a value less than zero.

Commutative: changing the order of the operations does not change the result

Product: multiply terms

| Inverse: the opposite function

| **Square root**: a square root of a number is a number when multiplied by itself gives the value (sumbol , <code>/</code>)

Square: a term multiplied by itself

Expression: a maths sentence with a minimum of two numbers and at least one math operation (no equals sign)

Career Focus - Where could this take you?



As a pharmacist, I need to have a good understanding of fractions and negative numbers when making and storing pharmaceutical drugs.

Retrieval Practice

Ron has £235.52 in the bank.

He pays in £188.

What is his new bank balance?

Add together six thousand eight hundred and 794

Which is greater, 15% or 0.2? Justify your answer.

Solve the equation $20 = \frac{a}{10}$

Challenge Activities



On a bookcase

- $\frac{5}{9}$ of the books are fiction books.
- The rest are non-fiction.
- There are 72 non-fiction books.

How many books are fiction?

Topic Links



This topic links to:

Addition, subtracting, multiplication, and division.

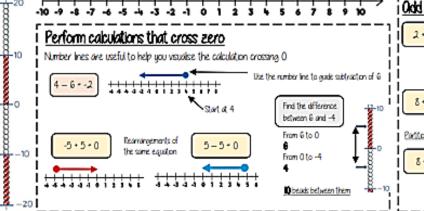
Additional Resources

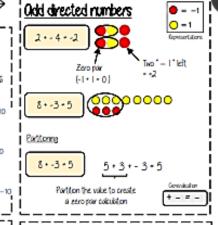


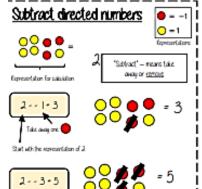
To further practice and develop your knowledge see: https://corbettmaths.com/contents/

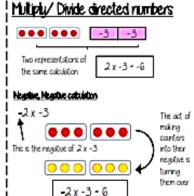
Number: 205-209, 110-111



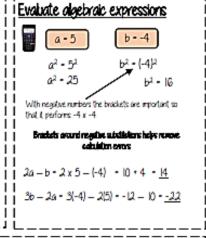


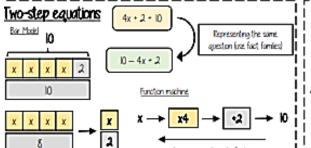


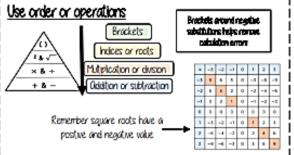




Dustons are the inverse operations









Year 7 – Addition & Subtraction of Fractions

- To perform all four operations with directed numbers.
- To be able to find and use equivalence to add and subtract fractions.

What do I need to be able to do?

By the end of this unit you should be able to:

- Convert between mixed numbers and fractions
- Odd/Subtract unit fractions (same denominator)
- Odd/Subtract fractions (same denominator)
- Odd/Subtract fractions from integers
- Use equivalent fractions
- Odd/Subtract any fractions
- Odd/Subtract improper fractions and mixed
- Use fractions in algebraic contexts

Keywords

Numerator: the number above the line on a fraction. The top number. Represents how many parts are taken

Denominator: the number below the line on a fraction. The number represent the total number of parts

Eauivalent: of equal value

Mixed numbers: a number with an integer and a proper fraction

Improper fractions: a fraction with a bigger numerator than denominator

Substitute: replace a variable with a numerical value

Place value: the value of a digit depending on its place in a number. In our decimal number system, each place is

I 10 times bigger than the place to its right

Odd/Subtract unit fractions Some denominator Representing Fractions Mixed numbers and fractions Improper fraction is represented in Mxed number all the images in this model 5 Fractions can be parts make up a With the same denominator CNLY the numerator is added bioner than a whole.

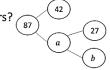
Career Focus - Where could this take you?



As a pharmacist, I need to have a good understanding of fractions and negative numbers when making and storing pharmaceutical drugs.

Retrieval Practice

What are the missing numbers?



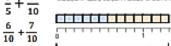
Subtract 512 from two thousand three hundred.

Write $\frac{4}{5}$ as a percentage.

What is the 4 worth in the number 8.3471?

Odd/Subtraction fractions (common multiples)

Oddtjon/Subtraction needs a common denominator

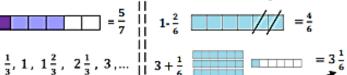


Odd/Subtract fractions

Sequences

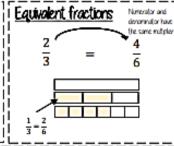
Represent this on a

Some denominator | Odd/Subtract from integers



of parts a whole is made up of

Odd/Subtraction any fractions



Challenge Activities



Work out the value of each symbol.



Topic Links



Addition, subtraction, fractions, and algebra.

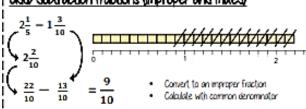
Additional Resources

To further practice and develop your knowledge see:

Number: 132-133, 139-140

https://corbettmaths.com/contents/

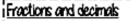
Odd/Subtraction fractions (improper and mixed)

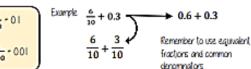




$$2\frac{1}{5} - 1\frac{3}{10} = 2\frac{2}{10} - 1\frac{3}{10} = 2\frac{2}{10} - 1 - \frac{3}{10} = 1\frac{2}{10} - \frac{3}{10} = \frac{9}{10}$$

Fractions in alaebraic contexts p = 5 m = 2 $k - \frac{5}{9} = 2$ Opply inverse operations Form expressions with fractions



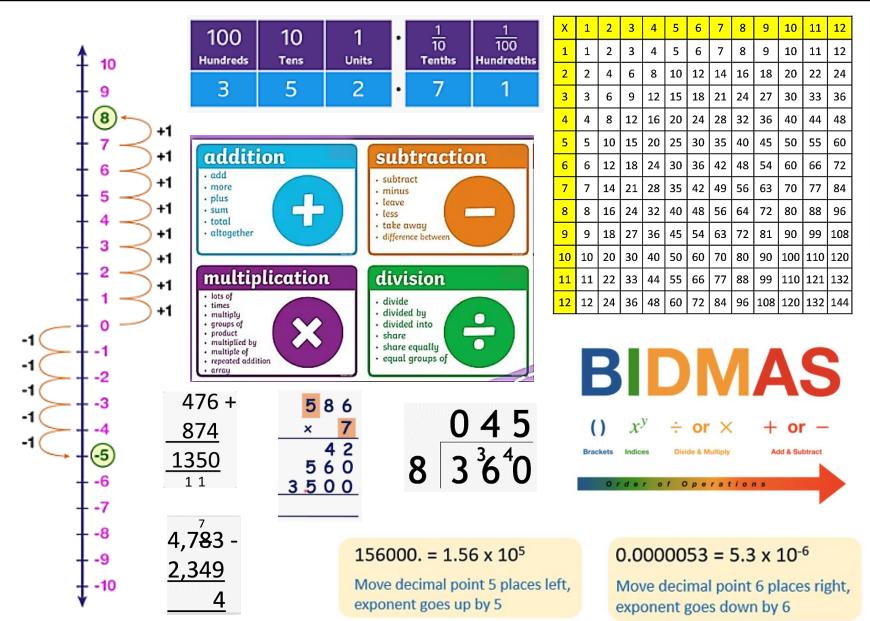


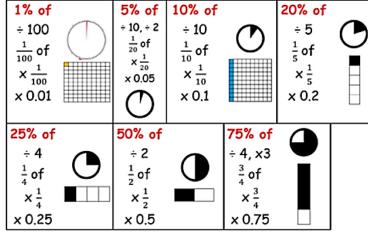
Use equivalent fractions to find a common multiple for both denominators.

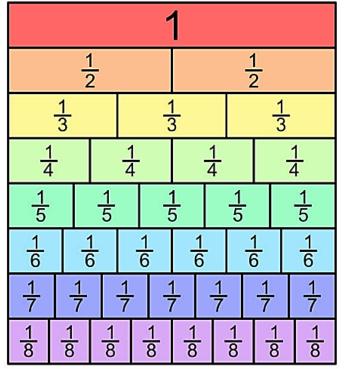




Maths Quick Reference: Number Skills

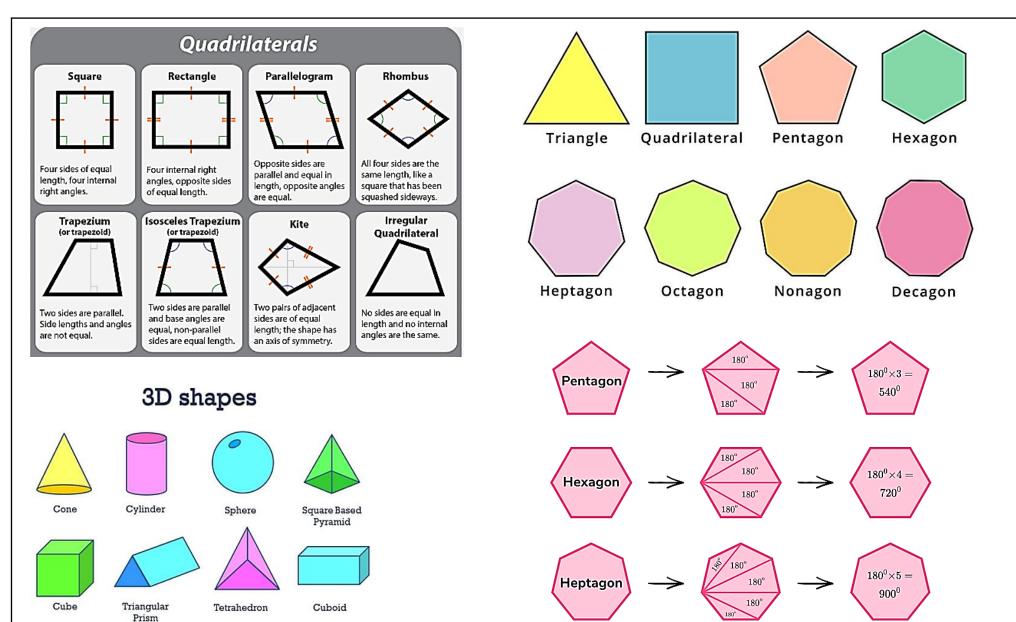


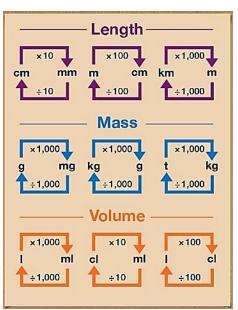






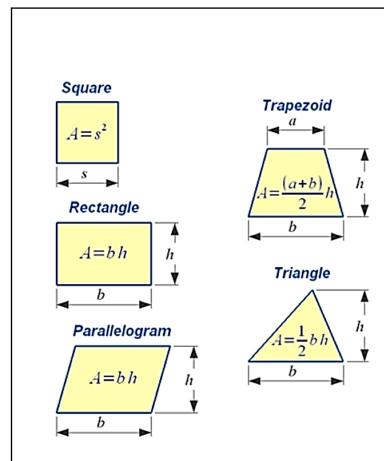
Maths Quick Reference: Geometry & Measures

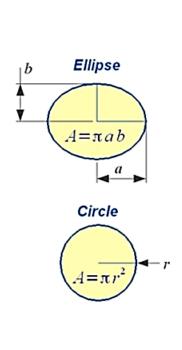






Maths Quick Reference: Geometry (Areas & Volumes)



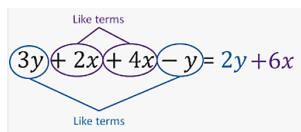


	Area and volume of 3d figures								
5.No	<u>Name</u>	Figure	Curved Surface Area	Total Surface Area	Volume				
1)	<u>Cube</u>	a = side	4a ²	6a ²	a ³				
2)	<u>Cuboid</u>	l= length b = breach h h= heigh	dth	2(lb+ bh+ lh)	lxbxh				
3)	<u>Sphere</u>	r = radius	4πτ²	4π r ²	$\frac{4}{3}\pi r^3$				
4)	Solid Hemisphere	r = radius	2πτ²	3πr ²	$\frac{2}{3}\pi r^3$				
5)	Right circular cylinder	r = radius h h = height	2πrh	2πr(h+r)	πr²h				
6)	Right circular cone	r = radius h = height l= slant he		πr(l+r)	$\frac{1}{3}\pi r^2 h$				
7)	Frustum of a cone	r = top radius R = base radiu h = height l= slant height		$\pi I(R+r) + \pi r^2 + \pi R^2$	$\frac{1}{3}\pi h(R^2+r^2+Rr)$				



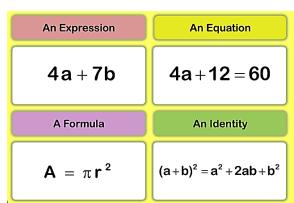
Maths Quick Reference: Algebra Skills

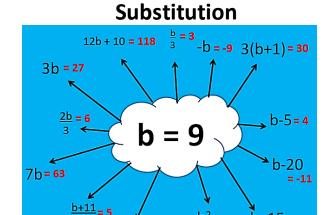
Simplifying Expressions



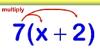
$$C \times C \times C \times C = C^4$$

$$C + C + C + C = 4C$$





Expanding Brackets



7x + 14

5 a (b - 4)

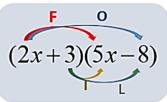
5ab - 20a

Expand & Simplify...

5x + 15 + 6x - 24

11x - 9

FOIL Method



First: $(2x)(5x) = 10x^2$

Outer: (2x)(-8) = -16x

Inner: (3)(5x) = 15x

Last: (3)(-8) = -24

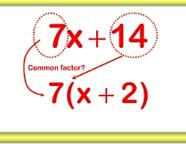
$$(2x+3)(5x-8)$$
= 10x² - 16x + 15x - 24
= 10x² - x - 24

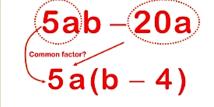
Grid Method

$$\begin{array}{c|cccc}
(2x+3)(5x-8) \\
\hline
2x & +3 \\
\hline
5x & 10x^2 & +15x \\
-8 & -16x & -24
\end{array}$$

 $10x^2 + 15x - 16x - 24$ $= 10x^2 - x - 24$

Factorising Brackets





Solving Equations

 $b^2 = 81$ b+15 = 24

$$6x - 5 = 7$$

$$+5$$

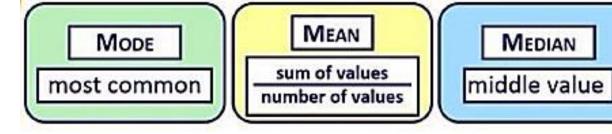
$$6x = 12$$

$$\div 6$$

$$x = 2$$



Maths Quick Reference: Statistics



RANGE largest value – smallest value

Mean

7, 3, 4, 1, 7, 6

Sum of numbers divided by the total numbers

= 28/6 = 4.66

Mode

7, 3, 4, 1, 7, 6

Most common number

7 3, 4, 1,7 6

Mode = 7

Median

7, 3, 4, 1, 7, 6

Arrange in order and pick the middle value

1, 3, 4, 6, 7, 7

Median = (4+6)/2 = 5

Range

7, 3, 4, 1, 7, 6

Difference between highest and lowest

Range = 7 - 1 = 6

Mean from the Frequency Table

Discrete Data Frequency Table

$$Mean = \frac{Sum of (value \times frequency)}{Total frequency}$$

Grouped Data Frequency Table

Mean of grouped data =
$$\frac{\text{Sum of (interval midpoint} \times \text{frequency})}{\text{Total frequency}}$$

Length (x cm)	Frequency	Midpoint	Midpoint × frequency
$0 < x \le 10$	4	× 5	= 20
10 < <i>x</i> ≤ 20	10	× 15	= 150
20 < <i>x</i> ≤ 30	7	× 25	= 175
$30 < x \le 40$	4	× 35	= 140
	25		485

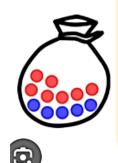
estimated mean = $485 \div 25 = 19.4$ cm



Maths Quick Reference: Probability

Simple Probability

Probabilty =
$$\frac{\text{Favorable outcomes}}{\text{Total outcomes}}$$



Example:

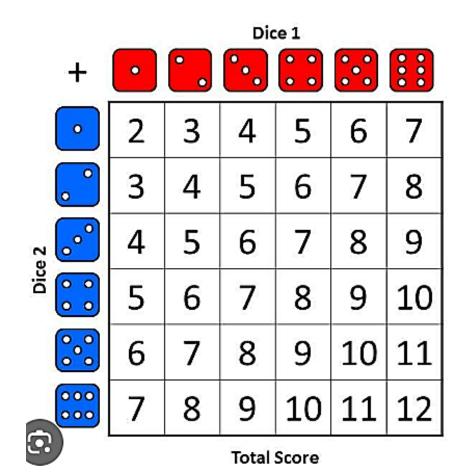
$$P(red) = \frac{7}{12}$$
 Number of red marbles

Total number of marbles (sample space)

$$P(blue) = \frac{5}{12}$$
 Number of blue marbles (sample space)

In words:	Impossible	Very unlikely	Unlikely	Even chances	Likely	Very likely	Certain
As decimal fractions:	0	0,2	0,4	0,5	0,6	0,8	1
As fractions:	0	$\frac{1}{5}$	$\frac{2}{5}$	$\frac{1}{2}$	$\frac{3}{5}$	$\frac{4}{5}$	1
As percentage	s: 0%	20%	40%	50%	60%	80%	100%

Sample Space Diagrams





English

Our students will:

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



Victorian Heroines

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

recognise 'Genre, Audience and Purpose' (GAP) Understand and use specific vocabulary

Understand and use specific vocabulary
Use a range of sentences

Understand how authors craft their writing and use methods to create meaning Use punctuation and spelling accurately

KNOWLEDGE

						1.71.	VVVL				
Character types				Person					Crafting a character		
What is a major character?		A main or important character, a character who plays a large role in a story.	What is a person narrator	?	I	one of the chara	he perspective of cters.	What is a back story?		This is when background information is given to help us understand more about a character or situation.	
What is a minor character?	1	A character who does not play a large role in a story.	What is a second parrator	person	yon	When a narrative reader into the s		What is physical appearance?	†	This is what a character looks like.	
What is a protagonist?	Ä	A main character who is usually the hero of a narrative.	What is a person narrator		HE. SHE. THEY.	When a narrative or 'they' with the outside of the sto	person existing ory.	What is an unusual characteristic?	THE STATE OF THE S	This is a mark or a feature that makes a character stand out like a scar or a tattoo.	
What is an antagonist?		A main character who is the opponent of the protagonist or the hero of a narrative – a villain.	What is a person omniscie narrator	ent ?		everything about including secret feelings.	-	What is a personality?	0.00	The behaviours or the characteristics of a person. For example, they are kind or they are funny.	
What is a stative character?	All to the labor	There are characters who do not change <u>during the course</u> of a story.	What is a person li narrator	imited	P S S S S S S S S S S	When the narrate single character and only has acc thoughts and em	through the story cess to the	What are thoughts?	\circ	The ideas or opinions that a character might have and keep to themselves.	
What is a dynamic character?	# D	These are characters who change during the course of a story.				character.	olions of that	What is an internal conflict?	(2)	When a character has a struggle in their mind or with themselves.	
		Vladimir Propp (Chara	cter 1	Гуреѕ			What is an external conflict?	N'A	When a character has a difference of opinion with another character or something within the world.	
What character type is The Hero ?		Either the seeker who goes on a defeat evil. The victim who direct suffers from the action of the villa start of the story.	tly	is The F	naracter type Princess?		The sought- after character.	What is description?		When words are used to create pictures in the reader's mind.	
What character type is The Villain ?		The character who causes some 'misfortune, damage or harm' by a magical object for their own ga ruining crops, kidnapping a pers committing a murder.	stealing ain, on, or	is The D	naracter type Dispatcher?	N.	The character who sends the hero on their quest.	What is dialogue?	2	A conversation between two or more people within a narrative.	
What character type is The Donor ?		The character who uses their for cunningness to help the hero.			naracter type False-Hero?		The character who initially appears as good but turns out to be evil.	What is direct speech?	6699	Speech which is reported by using the exact words that the speaker used and speech marks around what is said.	
What character type is The Helper ?		The character who is prepared to the hero by providing something						What is indirect speech?	its sail that he would call we would call we would call we write day.	Speech which tells you what someone said but does not use the person's actual words.	















Victorian Heroines

The aims of the sequence of learning are to ensure that all students can:
recognise 'Genre, Audience and Purpose' (GAP)
Understand and use specific vocabulary
Use a range of sentences
Understand how
Use punctuation

Understand how authors craft their writing and use methods to create meaning Use punctuation and spelling accurately



SKILLS – Narrative Writing

IMPOSE	Definition
Irony	Something contrary to what you might expect.
Metaphor	Saying something is something else; a direct comparison, not meant literally. i.e. The classroom was an oven.
Personification	Applying human characteristics to objects or things. E.g., The darkness beckoned me in (Zoomorphism is the opposite, where you give animals human features!).
Pathetic Fallacy	The attribution of human feelings and responses to inanimate things or animals, i.e. the angry sea
Onomatopoeia	Words that sound like what they are. Bang, clap, thud etc.
Sensory Detail	Sight, sound, taste, touch, smell.
Simile	Comparing something using like or as. The classroom was like an oven.
Sibilance	A repeated 's' sound – either at the start, or in the middle of words (N.B. 'c' can sometimes sound like an s!) "silence, sentries whisper, curious nervous."
Semantic field	When a group of words all link to one overall theme. Water – damp, drip, puddle, mist
Evocative Verbs	A doing word which sounds particularly active. The cat slinked, crawled, darted – rather than just walked.

	Punctuation	
Capital letters	Full stops	Apostrophes
Semi colon	Commas	Parentheticals

Victorian Heroines

- Strong female protagonists
- Representation of women
- Victorian society
 - Writing to describe

$\overline{}$						
AS	PICED					
Remember, if your subordinate clause comes before your main clause, you do need a comma.						
Α	Adverb	Start your sentence with an adverb. Lovingly and attentively, he stared into her beautiful green eyes.				
S	Simile	Start your sentence with a simile. Begin with the word 'as' or 'like'. As brave as a lion, he slayed the evil monster.				
Р	Preposition	Start your sentence with a preposition. On the top of the hill, there stood an old castle.				
I	-ing word (Verb)	Start your sentence with an 'ing' word. Unlocking the door, she left the room.				
С	C Connective (A subordinator)	If, Where, Although, Since, After, when, even though, because, as, before, in the event that				
	I WAS A WE BABI	Start your sentence with a connective. Although he was hurt, he continued his quest.				
1	as if, as long as, as much as, as soon as, as though, by the time, even if, in case, in order that, in the event that, lest, now that, once, only, only if, provided that, so, supposing, than, that, though, till, unless, until, whenever, whereas, wherever, whether or not, while,					
Е	-ed word (Verb)	Start your sentence with an 'ed' word. Scared by the sound, he hid under his covers for shelter.				
D	Drop in clause (Embedded clause)	Add a drop in clause to your sentence. (who = person / which = place) Michelle, who was very clumsy, always fell over her own laces. Newsome Academy, which is located in the Kirklees area, is an excellent school.				

 Links with: Yr 8 Maze Runner, Romeo and Juliet – Yr 9 Our Day Out – GCSE Macbeth, An Inspecto Calls, Language Paper 1



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VOCABULARY

You will be tested on five words per week



adored - love and respect (someone) deeply adventurous - willing to take risks or to try out new methods, ideas, or experiences alluring - powerfully and mysteriously attractive or fascinating; seductive ardent - enthusiastic or passionate articulate - (of a person or a person's words) having or showing the ability to speak fluently and coherently assertive - having or showing a confident and forceful personality **audacious** - showing a willingness to take surprisingly bold risks charismatic - exercising a compelling charm which inspires devotion in others **commanding.** – (verb) be in a strong enough position to have or secure (something confident - feeling or showing confidence in oneself; self-assured courageous - not deterred by danger or pain; brave daring. - (of a person or action) adventurous or audaciously bold decisive - settling an issue; producing a definite result dynamic - (of a process or system) characterized by constant change, activity, or progress

eloquent - fluent or persuasive in speaking or writing

enlightened - having or showing a rational, modern, and well-informed outlook exquisite - extremely beautiful and, typically, delicate **fierce** - having or displaying an intense or ferocious aggressiveness gumptious. - having gumption: alert, eager, vigorous heroine - a woman admired or idealized for her courage, outstanding achievements, or noble qualities influential - having great influence on someone or something ingenious. - (of a person) clever, original, and inventive inimitable - so good or unusual as to be impossible to copy; unique **pioneering** - involving new ideas or methods resilient - (of a person or animal) able to withstand or recover quickly from difficult conditions **revered** - feel deep respect or admiration for (something) sagacious - having or showing keen mental discernment and good judgment; shrewd sage - a profoundly wise person, especially one who features in ancient history or legend scintillating - sparkling or shining brightly

unashamed- expressed or acting openly and without guilt or embarrassment



Science

Our students will:

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



Year 7 Interdependence

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

- •Describe the transfer of energy in food chains and webs
- •Explain how organisms interact with their environment

Definition Keyword A home environment for plants and animals or other Habitat organisms. Environment The surroundings or conditions in which a person, animal, or plant lives. Food chain Part of a food web, starting with a producer, ending with a top predator Food web Shows how food chains in an ecosystem are linked. **Adaptation** Features of living organisms that help them survive. Group of the same species living in an area. Population Producer Green plant or algae that makes its own food using sunlight. Animal that eats other animals or plants. Consumer Decomposer Organism that breaks down dead plant/animal material so nutrients can be recycled back to the soil/water. Pyramid of numbers The number of organisms in each trophic level is counted and presented in a pyramid of numbers. The mass-in grams or kilograms - of the population of Pyra mids of biomass the trophic levels in a food chain. Biodiversity A measure of how many different species live in an ecosystem. The living things in a given area and their non-living Ecosystem

environment.

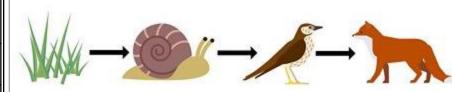
Key Concepts

Habitats



Food chains/Webs

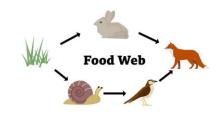
The flow of energy from one living thing to a nother is shown in the arrows in a **food** chain.



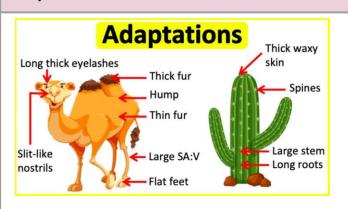
Plants are at the beginning of most food chains. They are called **producers** because they make their own food.

Any animal which eats a producer is called a **primary consumer**. All primary consumers are **herbivores** because they only eat plants.

Secondary consumers eat primary consumers. All secondary consumers are **predators** because they kill and eat other animals.

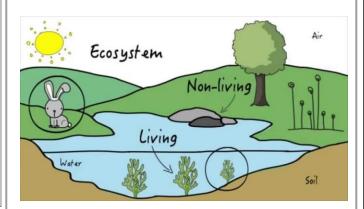


Adaptations



Ecosystems

An ecosystem is a geographic area where plants, animals, and other organisms, as well as weather and lands cape, work together to form a bubble of life. Ecosystems contain biotic or living, parts, as well as abiotic factors, or nonliving parts. Biotic factors include plants, animals, and other organisms,



Newsome Academy Year 7 Interdependence

Retrieval Practice	
Questions	Answers
What is a habitat?	A place that organisms live .
What is an a biotic factor?	Non-living factors such as temperature, rainfall, terrain etc.
What is a biotic factor?	Living factors such as different species and diseases.
Describe the adaptations of a polar bear.	White fur, large paws, thick fur, sharp teeth.
What do arrows in a food chain represent?	Energy being transferred.
Which direction do arrows point in a food chain?	In the direction of the consumer.
What do all food chains start with?	A producer
What is interdependence?	Organisms that rely on each other for survival in an ecosystem.
What is an endangered species?	A group of organisms that are at risk of becoming extinct due to low levels.
What does extinction mean?	The species no longer exists.
What factors increase biodiversity?	A substance that changes colour in the presence of a chemical i.e. acid or a lkali.
What factors decrease biodiversity?	Loss of habitats due to farming/building, pollution and hunting animals.
What causes global warming?	Burning fossil fuels, deforestation, landfill waste.
How does global warming lead to loss of habitats?	Increasing land/ocean temperature, rising sea levels, climate change (droughts etc)
How can population sizes be measured?	Using sampling methods such as quadrats and transects.

Career Focus - Where could this take you?





I am a bee keeper. Beekeeping is much more than just collecting honey. Bees can be used for crop pollination, wax production or collecting pollen. I raise and care for bees using a variety of skills such as wood work, honey extraction, disease and parasite control and queen rearing.

I have to use my skills and knowledge about the fascinating cycles and interactions that occur in a colony of bees to maintain the health of their lives.

The wage is variable but with more experience and science qualifications you can move into commercial production or research.

https://www.voutube.com/watch?v=XVD5izWXmKo

Challenge Activities



- 1. Make flashcards for the definitions and retrieval practice questions.
- 2. Choose an organism to research and produce an information leaflet on the organism and the habitatitis found in.
- 3. Create a new organism and produce a model of its habitat.

Calculate energy transfers in a food chain

Construct a scientific report

- 4. Identify a habitat and draw some food chains and a food web for that habitat.
- 5. Research the role of a beekeeper and the importance of bees.

í@ì **Additional Resources Topic Links** To further practise and develop your knowledge see: This topic links to: **Organisation** Educake - https://www.educake.co.uk/ **Energy transfers** BBC Bite size - Ecosystems and habitats - KS3 Biology - BBC Climate change We will also be practising how to **Bitesize** Draw pyramids of biomass YouTube Cognito -



Year 7 Separating Substances

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

to understand the states of matter and how we use the particle model to draw them including how states change

to understand how we can separate substances using filtration, evaporation, chromatography and distillation

Definition Keyword Solid objects can hold their shape. Solid Liquids can flow but cannot be compressed (squashed). Liquid Gases can flow and expand to fill a container. Gas The states at which substances can exist, either solid, State of Matter liquid or gas. **Particles** A small portion of matter usually drawn as a circle. The characteristics of a substance. **Properties** When a substance changes from a solid to a liquid. Melt When a substance changes from a liquid to a solid. Freeze Condense When a substance changes from a gas to a liquid. When a substance changes from a liquid to a gas. Evaporate Diffuse When particles of a substance spread out. Separating insoluble solid from liquid. Filtration Separating a solvent from a mixture. Distillation Separating a mixture of soluble substances. Chromatography

Key Concepts

	Solid	Liquid	Gas
particle model diagram	***	A	
particle arrangement	regular structure no space between particles	irregular structure very little space between particles	irregular structure large space between particles
volume and shape	fixed volume fixed shape	fixed volume shape changes to fill bottom of container	volume increases to fill capacity shape changes to fill capacity
able to flow	no (forces between particles are very strong and hold them in fixed positions)	yes (forces between particles are weak and particles slide over one another)	yes (forces between particles are very weak and particles move randomly and rapidly)
density	high cannot be compressed (particles are already tightly packed)	high cannot be compressed (particles are already tightly packed)	low can be compressed (particles are forced closer together)
particle energy levels	low (particles vibrate around a fixed point only)	moderate (particles can move and flow but slowly)	high (particles moving rapidly and freely)

Filtration and Crystallisation



Filtration can be used to separate an insoluble solid from a liquid by passing the mixture through a funnel and filter paper. The solid residue remains in the paper and the liquid is called the filtrate. For example separating sand and water.

Evaporation can be used to separate a soluble solid from a liquid by heating the solution and allowing the liquid to evaporate. The soluble solid will be left behind and will crystallise. For example separating salt and water.

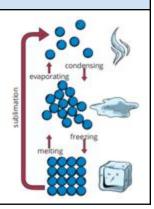


Changes of State

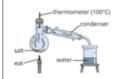
Substances can change state; from a solid to a liquid (melting) liquid to a gas (evaporating) gas to liquid (condensing) and liquid to solid (freezing).

Sublimation is when a substance changes from a solid directly to a gas.

The arrangement of particles changes when the substance changes state.



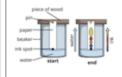
Distillation



Distillation can be used to separate a solvent from a solution. The liquid is heated and evaporates from the flask and into the condenser where it turns backinto a liquid.

Distillation is used to either collect a liquid or separate 2 liquids with different boiling points. E.g. collect pure water from salt water or separating water and ink.

Chromatography



Chromatography can be used to separate a mixture of soluble substances. For example different dyes in inks.

The colours are separated because they have varying solubilities.

The inks are carried up the filter paper (stationary phase) by a solvent (the mobile phase).



Year 7 Separating Substances

The aims of the sequence of learning are to ensure that all students: to understand the states of matter and how we use the particle model to draw them including how states change

to understand how we can separate substances using filtration, evaporation, chromatography and distillation

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

Career Focus - Where could this take you?





I am an alcohol and drug technician. My job is to carry out alcohol and drug testing for workplaces, the police force and drug rehabilitation programmes.

My main workplace is a laboratory where I test urine samples using techniques such as immunoassay and gas chromatography to help me identify the type and the amount of substances in a person's system.

Chromatography is used for many applications and affects everything from what you eat to how we fight disease.

Challenge Activities



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

Topic Links





This topic links to other science topics such as

- Scientific Skills
- Chemical reactions
- Energy

We will also be practising how to

- Use numerical data to identify states of matter
- Present using V21 skills

Educake - https://www.educake.co.uk/

BBC Bitesize-

https://www.bbc.co.uk/bitesize/topics/zkr4jxs/articles/z3qyydm

YouTube Cognito -

Additional Resources

https://www.youtube.com/watch?v=vi_SJBnxmHo&list=PLidqqlGKox7WeOKVGHxcd69kKqtwrKl8W&index=5



Humanities

Our students will:

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



Year 7: The Norman Conquest

- The aims of the sequence of learning are to ensure that all students:
- Explore the claimants to the English throne in 1066. Establish why the Battle of Stamford Bridge might be of benefit to William Duke of Normandy
- Explain why William won the Battle of Hastings in 1066 using evidence of 'preparation', 'leadership' and 'luck' to support. Evaluate William's methods of control in England, including: Fear, The Feudal System and Castles.



Anglo-Saxon

Claimant

Housecarls

Shield Wall

Archers

Feigned Retreat

Domesday book

Taxes

Castle

Palisade

Consolidate

Motte and Bailey

Definition

Key Concepts

Claimants to the Throne

Life in Anglo Saxon England - The Anglo-Saxon period lasted from the year 410AD, when Historians think the Romans left England, until 1066 when the Normans invaded. Most people in Anglo-Saxon England lived in villages. Their homes were made of wood, wattle and daub, and thatched roofs. Most

Anglo-Saxons were farmers and lived off the land.

The Battle of Stamford Bridge: In two days, King Harold assembled an army of 15,000 men, which included roughly 3,000 of his elite troops - the Housecarls. King Harold led his army, most of whom were on foot, across 185 miles in just four days. The English army marched with such speed that they surprised Hardrada's Army and won

The feudal system

Normans

Fyrd Men who fight in an Anglo-Saxon army to protect the King.

England in 1066.

strong barrier.

A group of elites oldiers in the Anglo-Saxon army.

A military formation whereby all the shields interlock and form a

Where the soldiers in an army pretend to retreat in order to

A group of people from Germany and Denmark who settled in

A group of people from Normandy in France. They invaded

England in the 5th Century. They ruled until 1066.

A person who claims they have a right to the throne.

King... Harold Godwinson, Earl of Wessex:

January 1066, leaving no Heir to the

English throne. There were three men

who claimed they should be the next

Edward the Confessor died on the 5th of

Edward's brother-in-law, England's leading nobleman and The Witan's first choice. He was crowned on the 6th January the day after Edward died.

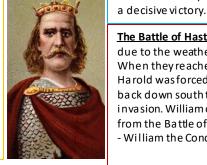
King of Norway, he claimed Harthacnut,

crown to his family. He was supported by Harold's brother, Tostig. Harold defeated

Stamford Bridge on 25th September 1066.

King of England in 1042, promised the

Hardrada and Tostigat the Battle of



The Battle of Hastings: Having delayed his invasion due to the weather, William finally set sail for England. When they reached Sussex on the 28th of September, Harold was forced to march his already exhausted army back down south to defend England against its second invasion. William of Normandy emerged victorious from the Battle of Hastings and became King of England - William the Conqueror.



The Harrying of the North:

There was opposition to William's rule, especially in the North of England. In order to prevent any challenge to his crown, William used terror to stop people from revolting. In 1069 his forces carried out the Harrying of the North which saw villages burned and caused the death of 100,000 people from starvation.

A Norman system which gave people land and protection by Feudal system those of a higher rank, and worked and fought for them in return. A Villein is a class of peasant who was tied to the land that was Villeins owned by their master. Their main role was farming.

Usually based on a persons wealth and income.

bailey (open a rea / village) inside an outer wall.

To make something stronger or more solid.

Motte and Bailey Castle.

break the formation of the opposing side.

Soldiers with a bow and arrow.

Created in 1086, it was a record of what each person in England owned, in terms of land and wealth.

A compulsory contribution to the King, Queen or government.

A type of castle which has a motte (small mound of earth) and a

A protective fence that surrounds the Bailey and the Keepina

William, Duke of Normandy:

Harald Hardrada:

Claim: Edward had promised him the crown. In 1063 Edward gave William, who was a great friend, and whom he had already named heir in 1051, a more serious pledge. He sent Harold to William to confirm his promise by oath. However, Harold said that the oath had been made under pressure and feared he would have been kept prisoner if he had not taken the oath.





. English Army form shield wall on

Senlac Hill. Norman soliders ride out, but





ye, and the English

to ensure that people across England were loyal to him, William built castles across the country to act as fortresses. These castles intimidated Anglo-Saxon opponents and helped William keep power.

Motte and Bailey castles: In order







Year 7: The Norman Conquest

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Retrieval Practice

Describe two features of life in Anglo Saxon

Name two ways that William consolidated his

Questions

England:

Bridge:

Bailey castles?



Answers

Most people were farmers, and lived in wooden huts. Children generally didn't go	l
to school. They made lots of things from wood, e.g. boats, and they made be a utiful items of je wellery.	

Who was the King who died in 1066?	Edward the Confessor.

Name two claimants to the throne in 1066:	Harold Godwinson, Harold Hardrada and William Duke of Normandy.

Hardrada's army which gave him an advantage.

Describe one feature of the battle of Stamford	It was King Harold Godwinson vs Harald Hardrada. King Harold marched his army
Describe one readure of the battle of Stamford	185 miles in 4 days to reach Stamford Bridge. King Harold had surprised

Hardrada, meaning King Harold's army were weakened in the Battle of Hastings

be cause they were made partly from wood. They were also secure.

The wind meant that William could not sail to England on the day he intended, Why was the weather lucky for William Duke delaying his invasion. In this time King Harold marched his army north to beat of Normandy?

The Feigned Retreat. He had a 2000 - 3000 strong cavalry force. William had Name one of Williams tactics that enabled him waited for Harold's army to come to him, making them even more exhausted. to win the Battle of Hastings: William bravely rode in front of his army in the battle to prove he was still alive,

The Harrying of the North refers to the brutal slaughter and pillaging of villages in Describe the events of the Harrying of the Northumbriain 1069-1070 by the army of William the Conqueror. It is thought

preventing panic amongst his soldiers.

North: that 100,000 people starved to death.

power over England:	The Domesday book. The Feudal System. Terror. Castles
Why did William choose to build Motte and	They could be built quickly and were less expensive than other castles, mainly

How did Castles help William keep control of The Normans used these large fortresses to impose their authority over a whole England? country.

Career Focus - Where could this take you?



I am an Architect: My job is to design new buildings and help improve old ones. I have to ensure I use the correct materials and consider what will make a building strong as well as attractive on the eye. I have a wide knowledge of Architecture throughout history and spend time researching the heritage of the buildings that I work on. Architecture is influenced by society and culture and my study of history enables me to understand this connection.

Challenge Activities



- 1. Create a model of a Motte and Bailey castle using materials you can find at home! E.g. wooden lollypop sticks, cardboard and newspaper. You could also bake a cake to look like a castle or draw / paint a castle then label it.
- Research a Norman castle in England that is still standing today. Then write a newspaper report detailing all you have found. You should include:
 - When was it built? - Why was it built?
 - Who has lived there?
 - What it is used for now.
 - Pictures of it (and maps too, if available).

 - Any other interesting or important facts or history about your chosen castle.

Topic Links



Additional Resources

ks 3-ks4-1066/zm3m382



This topic links to other humanities topics such as:

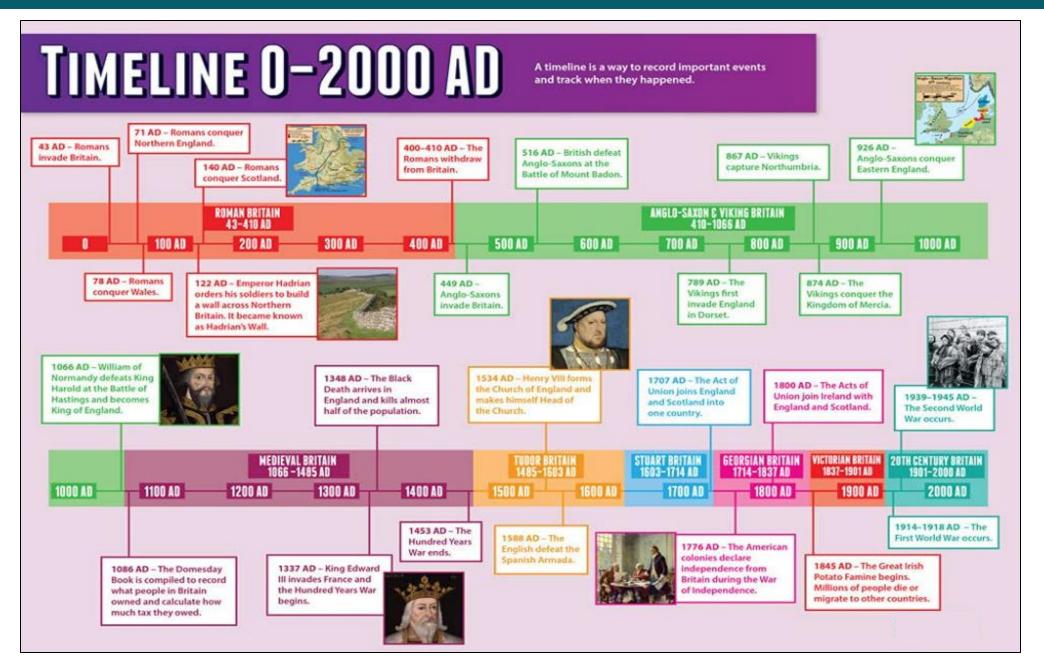
- The Romans
- Medieval Life
- Christianity

https://www.bbc.co.uk/bitesize/topics/zshtvrd

https://www.essentiallv-england.com/norman-castles-ato-z.html

To further practise and develop your knowledge see: https://www.bbc.co.uk/teach/class-clips-video/history-

Timeline







Year 7 Maps and Mapping

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

- Accurately use an 8- and 16-point compass
- Use four and six-figure grid references, to locate places on maps

(26)

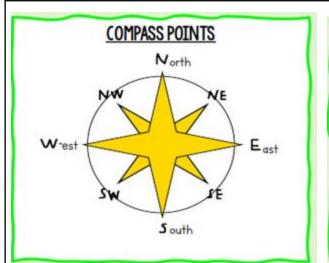
370

Measure distances on a map, and use the scale to work out actual distances

Interpret contour lines and their patterns, and spot heights on maps

Accurately use a world map to locate places using lines of longitude and latitude

Key Concepts



4 FIGURE GRID REFERENCES

Along the edges of each map there are numbers. These numbers help you work out where a location is on a map. Northings are numbers that go from bottom to top, Eastings go

from left to right.

The first two numbers give the eastings.

3226

The second two numbers give the northings.

Remember... eastings then northings!

Along the corridor and up the stairs!

<u>6 FIGURE GRID REFERENCES</u>

33 34 35

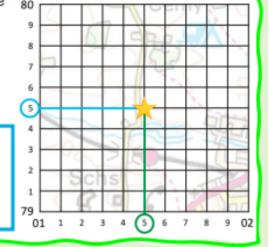
We can use six-figure grid references to find an exact location within a grid square, so they are much more accurate 80

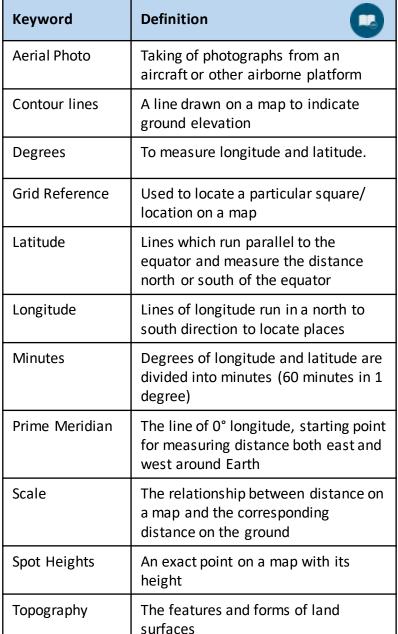
The grid square is divided into tenths.

Example:

015 795

The first three numbers give the easting which includes the number of tenths. The last three numbers give the northing which includes the number of tenths.







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- Measure distances on a map, and use the scale to work out actual distances

Interpret contour lines and their patterns, and spot heights on maps

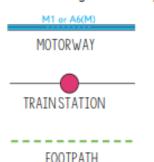
Accurately use a world map to locate places using lines of longitude and latitude

Key Concepts



MAP SYMBOLS

Symbols are useful for lots of reasons including, space saving on a map, multi-lingual (all languages can understand them), saves time, clear.





RIVER





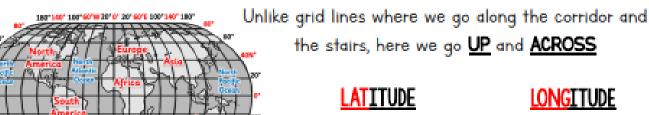








LONGITUDE AND LATITUDE

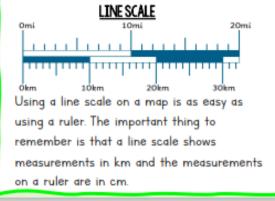


Flat lines. Flat-itude!

Long lines - up and down



OS maps have a scale. On some smaller maps, lcm on the map equals 250m in real life. On some larger maps, Icm on the map equals 500m. Different maps might have different scales, so check on your map to find its scale.



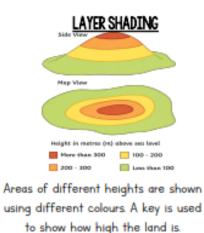
WORD SCALE

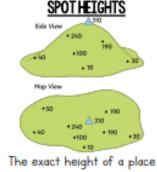
One centimeter on the map represents 3 kilometers on the ground. (1cm = 3 km)

Using the scale above, if we measure the distance on a map between two places with our ruler. The measurement is 4cm. We then have to multiply that measurement by 3 to calculate that the real distance between the two places is 12km.

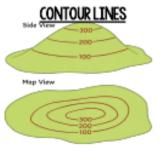
HEIGHT AND RELIEF

RELIEF the difference between the highest and lowest heights of an area. TOPOGRAPHY the surface features of the earth like hills, mountains, valleys etc.





above the ground is measured and written onto



Contour lines are lines on a map which join up places of the same height. Everywhere along a contour line is the same height.



other show?

show?

station and parking?

What are the map symbols for a bus

What does a 6-figure grid reference

Year 7 Maps and Mapping

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

- Accurately use an 8- and 16-point compass
- Use four and six-figure grid references, to locate places on maps
- Measure distances on a map, and use the scale to work out actual distances

Interpret contour lines and their patterns, and spot heights on maps

Accurately use a world map to locate places using lines of longitude and latitude

Retrieval Practice



Questions	Answers
Which compass point is opposite South West?	North East
Which compass point is opposite North West?	South East
What are Northings?	Numbers on a map which go from the bottom to the top
What are Eastings?	Numbers on a map which go from left to right
What is meant by the term topography?	The surface features of the earth like hills and valleys
What are the lines on a world map referred to as?	Lines of longitude and latitude
What do contour lines close to each	A steep slope



and



The exact location of a point within a grid square. They are more accurate

Career Focus - Cartographer





As a cartographer I design digital or paperbased maps, I check maps and charts are accurate and to scale. I also edit maps by adding or removing new roads, structures or landmarks. I also collect and analyse data from remote sensors on satellites and planes

Challenge Activities



- Create a contour model of a hill, using cardboard try to give your hill different types of slope and relief
- Design your own map symbols and then create a map of your local area and add your symbols to show the features of the area where you live
- Write a set of detailed instructions you could provide to a friend to get them from school to your house, or from one location to another of your choice

Topic Links



Additional Resources



This topic links to:

- Maths
- Science

To further practise and develop your knowledge see:

Map symbols, direction & relief Grid references & distance





Newsome Academy Everyone Exceptional Everyday Geography

Key Concepts: World – Countries and Oceans









Year 7 Hinduism - Practices

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

- Discuss why there is such a focus on the three avatars of God
- Describe how going to a Mandir is the best way for a Hindu to show their faith

Keyword	Definition
Hinduism	A religion which has cultural traditions which developed from Vedic religion.
Samskaras	A ceremony or a rite, which marks a major event in the life of a Hindu.
Sacred	Something that is dedicated or set apart for the services or worship of a deity; is considered worthy of spiritual respect or devotion.
Ceremony	A set of acts, often traditional or religious, performed at formal occasions. In Hinduism rituals are performed to bring spirituality into human life.
Symbolism	Hinduism is rich on symbolism. Many acts of worship, such as puja are symbolic. Symbolism is the idea that things represent other things.
Pilgrimage	A journey, especially a long one, which is made to some sacred place as an act of religious devotion. Pilgrimage in Hinduism is the practice of journeying to sites where religious powers, knowledge, or experience have been marked or been present.

Key Concepts

Samskaras

Religious people often have ceremonies to mark changes in their life. Hindu rites of passage cover a person's birth to their death through various traditions and customs.

Hindu sacraments are called 'sanskars'

The sacraments performed at the time of a wedding are called 'Vivah Sanskar'.

This sanskar marks the start of the second and the most important stage of life called the 'Grihistha Ashrama' which involves setting up of a new family unit.



Sacred Thread ceremony (Upanayana)

The Sacred Thread ceremony is a ceremony for boys in some Hindu communities to confirm they are of an age to take on religious responsibility.

Girls are sometimes honoured in the same way, but it is rare for them to receive and wear the thread.

In some Hindu communities, the male participant's head is shaved for the ceremony, symbolising a cleansing from their old ways of living. New clothes are put on after bathing. Gifts and blessings from family and friends are often received. In some communities, the person asks family and friends for **alms** to show that they no longer expect the family to automatically provide for them now they are an adult.

Features of the Sacred Thread ceremony include:

- The Janoi is made up of three strands, representing purity of thought, words and actions
- The cotton strands go over the left shoulder and under the right arm
- Janoi wearers may chant a special mantra when putting on and taking off their sacred thread
- Vows are made to obey all aspects of the first ashrama
- Some young Hindus also accept a **Guru** at this point and start their study of **scripture**. It is increasingly common for young Hindus in the UK and in urban India to have the ceremony at different ages.



Year 7 Hinduism - Practices

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

- Discuss why there is such a focus on the three avatars of God
- Describe how going to a Mandir is the best way for a Hindu to show their faith

Key Concepts



Puja Tray





<u>Holi</u>

A Hindu festival that celebrates spring, love, and new life.

Some families hold religious ceremonies, but for many Holi is more a time for fun. It's a colourful festival, with dancing, singing and throwing of powder paint and coloured water.

Holi is also known as the "festival of colours".



Hindu Pilgrimage

Hindu practices allow those who follow the religion to demonstrate their commitment to the faith and this includes worshipping in temples and at shrines.

Hindu practices might also involve showing a commitment to the wider community, such as pilgrimage and charity work.

Varanasi

The most sacred city in Hinduism is **Varanasi**, as it is one of the oldest and most respected cities. It is believed to be the city where **Shiva**, the god of destruction, lived a long time ago. The **River Ganges**, which is one of the most sacred rivers in the world, runs through the city and is important as it is where Hindus bathe in the hope, they can wash their sins away. A lot of Hindus believe that people who die in the city of Varanasi can achieve moksha.



The Puja Tray

On the puja tray there is A pot of water for ritual

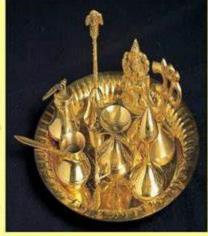
cleansing.

A bell to call the family to worship.

A tiny pot of red gum paste to mark the forehead. This mark means that a woman's soul (her husband) is with her.

An Aarti lamp for the Aarti ceremony.

An incense burner or jos stick holder.



Kumbh Mela

One of the most important pilgrimages in Hinduism is **Kumbh Mela**. This is the largest gathering of people in the world.

Millions of people attend and bathe in the Ganges (in North India).

The main Kumbh Mela gathering takes place every 12 years, with other events taking place every three years at four different sites (a different site is used every three years).



What are Samskaras?

Why is the thread ceremony

important within Hinduism?

What do Hindus use in worship?

Where do Hindus go for

pilgrimage?

Hindus?

Year 7 Hinduism - Practices

Samskaras are rites of passage within Hinduism. Marking

The Sacred Thread ceremony is a ceremony for boys in some

religious responsibility. This represents a new beginning as well

Hindu communities to confirm they are of an age to take on

as maturity to help and provide for their family.

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

- Discuss why there is such a focus on the three avatars of God
- Describe how going to a Mandir is the best way for a Hindu to show their faith

Retrieval Practice Questions Answers

important event within their life.

Career Focus - Where could this take you?





Global coordinator for Hindu Swayamsevak Sangh: "I love to help around and look after the plants and the world around us, there is a famous slogan which states 'Service to Mankind is Service to God' this motivates me to help the people and the communities around me."

"Religious education has given me skills to understand the world we live in now, how animals and humans need to be looked after, as well as the world around us. Our community projects have included; Voluntary work at Old People Homes, Blood Donation, Distribution of fruit to local hospitals, trees planting, careers fair etc."

The story of Holika and Prahlad. The story behind Holi is about Whose story lies between the good triumphing over evil. festival of Holi?

Challenge Activities



Hindus use a puja tray, when they are worshipping.

- Explain the stories behind the festivals of Holi and Navrati. Why are they important to Hindus today?
- Can you name any other sacred events within a life of a Hindu?
- Create a leaflet for someone to explain the key practices of Hinduism.
- Research the different Gods/Goddesses in Hinduism and create flash cards.
- Make your own puja tray and take a picture of it.

Explain Evidence (Quote)

Don't forget!

Point

Why is Varanasia sacred site for It is believed to be the city where **Shiva**, the god of destruction,

Varanasi can achieve moksha.

means nights.

reflect this.

lived a long time ago. The River Ganges, which is one of the most sacred rivers in the world, runs through the city and is important as it is where Hindus bathe in the hope, they can wash their sins

away. A lot of Hindus believe that people who die in the city of

Navratri is a time when Hindus celebrate the goddess Durga for

killing the demon, Mahishasura. Nav means **nine** and Ratri

Hindus celebrate Navratri by dancing and different colours

which symbolises one of her distinct characteristics. Many

Hindus wear a different coloured traditional outfit each day to

Hindus go to Varanasi, as this is the sacred site in Hinduism.

Topic Links



Additional Resources



This topic links to other RE topics such as

- Sikhism
- Buddhism

Cross curricular subjects include:

Geography

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/zh86n39/articles/z4ggv9g

https://www.bbc.co.uk/religion/religions/hinduism/ritesrituals/wedo ings.shtml





Why do Hindus celebrate Navratri?



Keyword

Justice

Absolute

Poverty

Relative

Poverty

Injustice

Fairtrade

Social Justice

Year 7 Ethics - Justice

Research a key person who has fought for justice The aims of the sequence of learning are to ensure that all students can: • Identify the link between poverty in injustice Explain what is Justice

Identify the difference between Absolute & Relative poverty

Identify key people who have fought for justice

Identify two charities, Christian Aid & Muslim Aid and how they help individuals around the world

Definition

The quality of being fair and reasonable

This is when household income is below a certain level. This makes it impossible for

the person or family to meet basic needs of life including food, shelter, safe drinking water, education and healthcare.

This is when households receive 50% less. than any average household. So, they do have some money but still not enough money to afford anything above the basics.

A lack of fairness and justice Fairtrade aims to ensure a set of

standards are met in the production and supply of a product or ingredient. Fairtrade means workers' rights, safer working conditions and fair pay.

- Everyone deserves an equal chance and opportunity.
- **Ahimsa** Hindu and Buddhist belief to respect all living things and a belief in non-violence. Equality Everyone is treated equally regardless of

who they are.

Key Concepts



Justice in the UK means that everyone should be treated fairly and equally under the law, regardless of their background or circumstances. It is the responsibility of the government to ensure that the legal system is fair and impartial, and that everyone has access to justice. This means that if someone breaks the law, they will be held accountable and punished appropriately. It also means that people have the right to defend themselves and to have a fair trial.

"Access to justice is a fundamental human right."

Absolute poverty Absolute poverty is when a person or family doesn't have enough money to afford the basic things they need to survive, like food, clean water, shelter, and clothing. It means they are living in very difficult and sometimes dangerous conditions, and they may not have access to things like healthcare or education. This kind of poverty can be very hard to escape from, and it affects millions of people around the world. The standards set for absolute poverty are the same across countries.

When it was established in 1990, the World Bank set the global absolute poverty line as living on less than \$1 a day.

Relative poverty is a situation where someone's income or living conditions are not as good as other people in their society. For example, a family may have a home and enough food to eat, but they might not be able to afford some things that most other people in their community can, like the internet, new clothes, transport fares. This can make them feel left out or different from their peers, and it can make it hard for them to participate in some activities or events or even find a job. Relative poverty is about not having the same things as the people around you, even if you have enough to get by. Relative poverty is considered the easiest way to measure the level of poverty in an individual country but it changes from country to country.



Year 7 Ethics - Justice

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

- Explain what is Justice
- Identify the difference between Absolute & Relative poverty
- Identify key people who have fought for justice

Research a key person who has fought for justice Identify the link between poverty in injustice

Identify two charities, Christian Aid & Muslim Aid and how they help individuals around the world

Key Concepts



Mohandas Gandhi believed in nonviolent resistance. which means he promoted peaceful ways of protesting against unfair treatment. He led peaceful protests, boycotts, and strikes to challenge British rule and fight for Indian independence such as the Salt March. He also advocated for the rights of the poor and the untouchables, who were considered to be of a lower caste in Indian society. Gandhi is known for his philosophy of "satyagraha," which means "truth-force" or "soul-force." He believed in the power of truth and love to overcome

injustice, and he worked to inspire people to act with compassion and kindness towards others.



Dr. Martin Luther King Jr. was a leader in the Civil Rights Movement in the United States during the 1950s-60s. He believed in nonviolent protest, which means that people could peacefully speak out against injustices, discrimination, and segregation. Dr. King was a powerful speaker, and he used his words to inspire people to work together to bring about change. He organised protests and boycotts to draw attention to the unequal treatment of Black people in America. He helped to push for new laws that protected people's civil rights. He was awarded the Nobel

Peace Prize for his work in

promoting peace and justice.



Catholic nun who dedicated

her life to helping the poor

Mother Teresa was a

and sick in India. She spent many years teaching in India before starting her own order, the Missionaries of Charity, in 1950. They provided food, shelter, and medical care to the poorest and most vulnerable members of society, including the sick, dying, and disabled. Mother Teresa is remembered for her compassion and selflessness. She believed that everyone, regardless of their background or circumstances, deserved love and respect. She was awarded the Nobel Peace Prize in 1979 for her

humanitarian work.



Malala Yousafzai is a Pakistani activist and the youngest person to ever win the Nobel Peace Prize. She was born in 1997 in Pakistan and grew up in a region where the Taliban, a militant group, had banned girls from attending school. When Malala was 11 years old, she began speaking out publicly against the Taliban's rule and advocating for girls' right to education. She wrote a blog about it, which brought international attention to the situation. However, this also made her a target for the Taliban. In 2012, Malala was shot by a Taliban gunman while on her way to school. She survived the attack and continued her advocacy for girls' education

from the United Kingdom.

Christian Aid is a charity that works to help people who are living in poverty around the world. They work with communities in some of the poorest countries in the world to provide support and assistance. They help to fund programs that provide food and clean water, build schools and clinics, and provide emergency aid in times of crisis, such as natural disasters or conflict.

One of the things that sets Christian Aid apart is that they help communities find long-term solutions to poverty. This means that they work with people to identify the root causes of poverty and help them find sustainable ways to improve their lives. It is inspired by Christian values of compassion, justice, and equality, and they work to make the world a better place by helping those in need.

Muslim Aid is a charity that works to help people in need around the world. They are inspired by Islamic values of compassion, generosity, and service to others.

Muslim Aid provides assistance in a variety of ways, including emergency relief, education, healthcare, and development projects. They work in some of the poorest and most vulnerable communities in the world, including those affected by natural disasters, conflict, and poverty.

They work with local communities to provide assistance. They believe that this helps to ensure that their work is effective, sustainable, and respectful of local culture and customs. Muslim Aid is dedicated to helping people regardless of their race, religion, or background. They believe that all people have the right to live with dignity and respect.





Year 7 Ethics - Justice

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

- Explain what is Justice
- Identify the difference between Absolute & Relative poverty
 Identify key people who have fought for justice

Identify the link between poverty in injustice Identify two charities, Christian Aid & Muslim Aid and how they help individuals around the world

Retrieval Practice Questions Answers Justice means the quality of being just. Justice What does Justice mean? helps us to figure out what is fair, what is right and wrong. Define the term relative Relative poverty is when someone has some necessities to live life. less than any average poverty. household. So, they do have some money but still not enough money to afford anything above the basics. What does absolute poverty Absolute poverty means when someone cannot afford/meet the basic needs of life including food, mean? shelter, safe drinking water, education and healthcare. What does UN stand for? UN is short for United Nations. What is Gandhi famous for? Non-violence protests. What did Martin Luther King Martin Luther King Jr stood up for the rights of black Jr. stand up for and why? people. Who was Mother Teresa? Mother Teresa was a Catholic nun and missionary. She is famous for helping the poor, hungry and sick people of India. What is fairtrade? Fairtrade aims to ensure a set of standards are met in the production and supply of a product or ingredient. Fairtrade means workers' rights, safer working conditions and fair pay.

Career Focus - Where could this take you?



I volunteer for a charity, I might help out in many different ways. I could help at a food bank by sorting and packing food for people who need it, or I could help at a homeless shelter by serving meals and talking to people who are staying there. Sometimes, I might help raise money for the charity by organising a fundraising event or doing a sponsored run.

Challenge Activities

Topic Links

Keypeople

History

Business

Sikhism/Islam/Christianity

We will also be practising how to

Participate in debates



- Write down three points that suggest someone is in absolute poverty. Explain the points in detail
- Create a poster on your own charity. How can the charity help someone and explain the key beliefs/values of the charity (who is it aimed at)
- Research one historical figure from the knowledge organiser. Create a fact file on the chosen individual or group.

<u>'</u>

Argue a point and practise our Voice 21

Write PEE sentences/how to answer exam questions



This topic links to other RE topics and cross curricular subjects such as



https://www.bbc.co.uk/bitesize/guides/zdrxbdm/revision/11

https://www.nspcc.org.uk/

Additional Resources

https://www.christianaid.org.uk/

https://islamicaid.com/



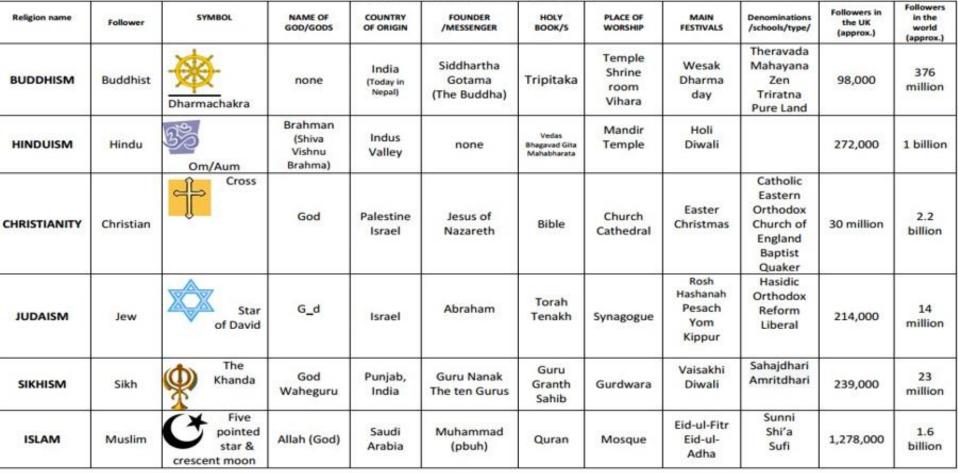




Newsome Academy Religious Studies

Key Concepts

SIX WORLD RELIGIONS (spellings vary)



Theist = Someone that believes in God

Atheist = Someone that doesn't believe in God

Agnostic = Someone that is not sure about the existence of God

Monotheist = Someone that believes in one God Polytheist = Someone that believes in many gods

Timeline of religions (all dates approximate)

1	1	1	1	1	1	1
2000 BC	1500BC	560 BC	0	30 AD	610 AD	1500 AD
Hinduism	Judaism	Buddhism	3	Christianity	Islam	Sikhism





MFL

Our students will:

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



Year 7 Mon Temps Libre

- The aims of the sequence of learning are to ensure that all students can:
 - say what sports people play
- · say what activities people do.
- · talk about the weather

- ask and answer simple questions.
- use more complex structures with time phrases.

Keywords/ phrases



Key Concepts



Qu'est-ce que tu aimes faire What do you like doing qu

le week-end? at the weekend?

avec tes amis? with your friends?

quand il pleut?

when it rains?

sur ton portable? on your phone?



tchatter chatting (online)

Tu fais du sport? Do you do sport?

Je fais	I do	Nous faisons	We do
Tu fais	You do	Vous faites	You do
II/ elle/o n fait	He/ she does/we do	Ils/ elles font.	They do

du skatede la cuisinedu patin à glacede la dansedu théâtrede la gymnastiquedu vélode la natationdu skidu judode l'athlétismedes randonnéesde l'équitation

Tu est sportif / sportive? - Are you sporty?

Je joue	I play	Nous jouons	We play
Tu joues	You play	Vous jouez	You play
II/ elle/on joue	He/ she/ we play	lls/ elles jouent	They play

au basket / billard - basketball / snooker au football (foot) / rugby - football / rugby au hockey / tennis - hockey - hockey / tennis au handball - handball à la pétanque/aux boules - boules aux cartes - cards aux échecs - chess

Talking about the weather

il y a du soleil - it is sunny
il fait beau il y a du vent - it is windy
the weather's fine il pleut - it is raining
il fait mauvais il neige - it is snowing
the weather's bad
il fait chaud - it is hot
il fait froid - it is cold

Key sounds



» ai











Questions

weekend?

faire?

pleut?

Pourquoi?

Year 7 Mon Temps Libre

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

- say what sports people play
- say what activities people do.
 - talk about the weather

- ask and answer simple questions.
- use more complex structures with time phrases.

Retrieval Practice

Quel temps fait-il?

Tu es sportif? Tu es sportive?

Qu'est-ce que tu aimes faire?

Qu'est-ce que tu fais le



Answers

Aujourd'hui il fait beau.

Oui – je joue au golf et le weekend je joue au foot.

Je fais de la danse et je fais aussi de la natation.

Quand est-ce que tu fais du Je fais du cyclisme tous les weekends. cyclisme?

> J'aime **prendre les selfies** et **partager les** photos.

Qu'est-ce que tu n'aimes pas Je n' aime pas <u>regarder les films</u> et bloguer.

> Je pense que c'est chouette nul



Est-ce que tu aimes écouter de Oui j'adore **écouter de la musique. C'est** la musique? formidable.

Qu'est-ce que tu fais quand il Quand il pleut je joue aux cartes.

Career Focus - Where could this take you?



I am a games designer. I am lucky because I can work all over the world. FIFA employ lots of people to watch football games and collect statistics about the games. Then we turn that into the game that lots of people play at home.

Challenge Activities



1**B**Ì

- Create a plan for the weekend. Include the day in French and say what you will do if the weather is good and bad.
- Research what the most popular hobbies of French students in Year 7.
- Complete the Languagenut activities.
- Design a poster for extra-curricular activities at school. Make sure that you include the day of the week, the activity and your opinion.

This topic links to:

Unit 1 – moi

Topic Links

- Likes and dislikes
- Healthy Lifestyles.

To further practise and develop your knowledge see:

- Sentence Builders
- Oak academy.

Additional Resources

Your teacher can remind you of your login.

Year 7 French – Essential Grammar and Vocabulary 3. Qu'est-ce que tu aimes? WAGOLL Look at this model text about yourself - do you think le sport - sport le collège - school J'aime - I like Bonjour - Good morning (Comment) ça va? How are you could replicate it with your own information? Salut - hello you? Je n'aime pas - I don'tlike Pleasantries verbs Bonsoir - good evening Greetings Hello. My name is Marc Bonjour, je m'appelle Marc la danse - dance ca va très bien merci la musique - music J'adore - I love and I am 11 years old. Au revoir - Goodbye - I'm very well thank you et j'ai onze ans. À plus - See you later les araignées - spiders 回線然回 Key Je déteste - I hate Also, my birthday is the 4th Mon anniversaire est le les glaces - ice creams ca va – ok ça va – ok ça va mal – Bad of May. quatre mai. Comment tu t'appelles? What's your name? C'est - it's ... Il /elle aime - he/she likes I am very nice sympa – nice nul – rubbish Je suis très sympa Je m'appelle - I am called and quite clever y assez intelligent triste -sad moderne off! démodé – old-fashioned 1. Quel âge as-tu - How old are you? but I'm not patient. mais je ne suis pas patient. Tu as des frères ou des soeurs? - Have you got any brothers or sisters? J'aimerais avoir - I'dlike to have I have a sister J'ai une soeur Je pense que - I think that Avoir - to have years old mais elle est méchante. but she is naughty. J'ai - I have A mon avis - In my opinión Tu as - you have I would like to have a Personellement - personally J'aimerais avoir un frère! Elle/ il a - she/he has une soeur- a sister brother! un frère- a brother J'adore la danse I love dance une demi-soeur- a stepsister / half-sister 2. Qu'est-ce qu'il y a sur la photo? Nous avons - we have verbs Vous avez - you have un demi-frère - a stepbrother / half-brother because it's fun What's in the photo? parce que c'est amusant Elles/ils ont - they have trois soeurs - three sisters Do you like sport? Tu aimes le sport? un tableau - a board Key Ilya-Je n'ai pas de frères ou soeurs - I haven't got any brothers or sisters un ordinateur - a computer Q There Je suis fils/fille unique I am an only child indefinite article definite article Describing un/ une professeur - a teacher is/are photo une porte - a door masculine un (a / an) → *le / l'* (the) une fenêtre - a window singular des tables - some tables une (a / an) *la / l'* (the) feminine 4. Tu es comment? What are you like? des chaises - some chairs singular des élèves - some pupils très - very des cahiers - some exercise books être - to be amusant / amusante - fun plural des (some) → les (the) Je suis - I am trop - too arrogant / arrogante - arrogant Tu es - you are 5. C'est quand ton anniversaire? When is your birthday? méchante / méchante - naughty assez - quite Elle/ il est - she/he is Mon anniversaire c'est le... septembre - September 1 premier 11 onze 21 vingt et un janvier - January un peu - a bit patient / patiente - patient my birthday is the... 22 vingt-deux **février** - February octobre - October 2 deux 12 douze Nous sommes - we are verbs intelligent / intelligente - intelligent 3 trois 13 treize 23 vingt-trois mars - March novembre - November Vous êtes - you are 24 vingt-quatre avril - April décembre - December 4 quatre 14 quatorze Elles/ils sont - they are petit / petite - small mai - May 5 cina 15 auinze 25 vingt-cinq 16 seize 26 vingt-six juin - June 6 six grand / grande - tall juillet- July 7 sept 17 dix-sept 27 vingt-sept NO capital letters for Je ne suis pas - I'm not 28 vingt-huit août - August bavard / bavarde - chatty 8 huit 18 dix-huit months in French! 9 neuf 19 dix-neuf 29 vingt-neuf fort / forte - strong 10 dix 20 vingt 30 trente 31 trente et un timide - shy



Computing

Our students will:

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



Academy 7 - How Computers Work

The aims of the sequence of learning are to ensure that all students: Demonstrate knowledge of computing fundamentals by describing the history of computers, the IPOS

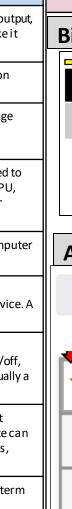
Key Concepts

- cycle, the role of different component, types of software and different types of printers in use
- Demonstrate knowledge of binary conversion by converting between binary code and denary numbers

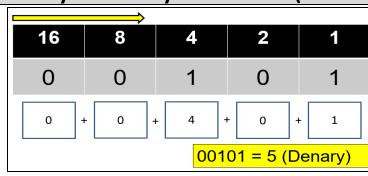
• Demonstrate knowledge and understanding of basic programming terms by explaining the connection between algorithms, functions and Apply knowledge from this unit to accurately describe some keywords

Keyword Definition **IPOS Cycle** Known as 'information processing cycle', IPOS (input, processing, output, and storage) is a series of events that allow a computer to work like it does. **CPU** The Central Processing Unit. It calculates and processes information (instructions) sent from input/output devices. Storage Storage capacity refers to how much disk space one or more storage Capacity devices provides. For example, a 500GB hard drive has a storage capacity of 500 gigabytes. Computer With hardware, a component or part is one hardware unit designed to connect to and function as part of a larger system. For example, CPU, Component RAM, SSD drive work together and can be considered as computer components. **System** A type of computer program that is designed to control how a computer Software works. e.g. operating systems and utility programs. **Binary Code** It is a coding system using the binary digits 0 and 1. It can represent a letter, digit, or other character in a computer device. A computer converts every instruction into a binary code. A bit (binary digit) is the smallest unit of data that a computer can Bits process and store. A bit is always in one of two physical states (on/off, yes/no, true/false etc...) - represented by a single binary value, usually a 0 or 1. **Bytes** In most computer systems, a byte is a data measurement unit that contains eight bits, or a series of eight zeros and ones. A single byte can be used to represent 256 different values such as lowercase letters, uppercase letters, numbers and symbols etc... Algorithm A detailed list of steps to help write a program. This is written in a term known as 'Human Language'. **Programming** Making the switch from listing steps in detail as an algorithm to encoding (creating code) them. This is written in a term known as 'Machine Language'. Functions are mini programs that you can use over and over inside of **Function**

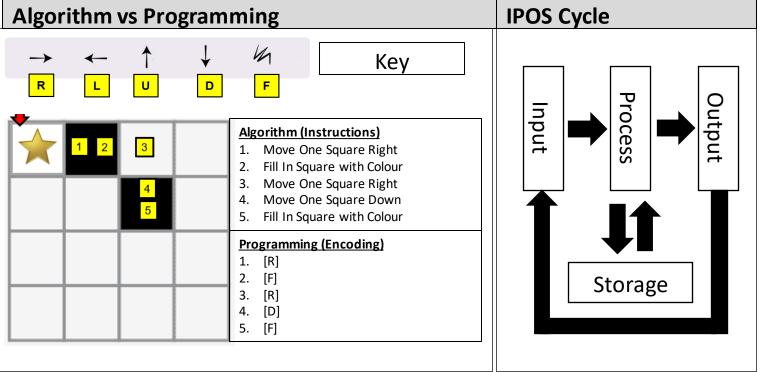
your bigger program.



Binary to Denary Conversion (5-Bit Binary) Make sure you are aware of the number of bits involved



- in the conversion (count binary length) Write down the decimal number place values above the binary number
- Convert each binary digital from left to right (starting with largest decimal)
- Add up the values of the decimal numbers where the binary digital '1' has been used e.g. 00101 = 4+1 = 5





Retrieval Practice

What are the roles of a

Give two examples of

Describe three different

System software

types of printers

applications?

RAM and ROM in a

computer

Questions

Academy 7 - How Computers Work

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

- Demonstrate knowledge of computing fundamentals by describing the history of computers, the IPOS cycle, the role of different component, types of software and different types of printers in use
- Demonstrate knowledge of binary conversion by converting between binary code and denary numbers

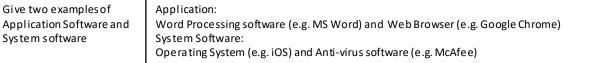
• Demonstrate knowledge and understanding of basic programming terms by explaining the connection between algorithms, functions and Apply knowledge from this unit to accurately describe some keywords



Answers			

into binary code for the computer to understand e.g. keyboard An output device? An output devices is something a computer uses to convert processed instructions into a forma a human can see or notice e.g. monitor	What is the difference between an input and an output device?
--	---

ROM: Read-only memory is non-volatile memory that permanently stores instructions for your computer RAM: Randomaccess memory is volatile (deletes when computer turned off) memory that temporarily stores the files you are working on



- Dot-matrix: Pattern of dots used when creating the paper printout
- Inkjet: The ink-jet's guirts tiny droplets of ink onto the surface of the paper 3. Laser: It creates marks on paper using a fine dust called toner. A laser is used to make the toner stick to the required parts of the paper
- How does a computer A computer converts every instruction into a binary code. It is a coding system using the binary understand the digits 0 and 1. It can represent a letter, digit, or other character in a computer device instructions given by different software and

Algorithms are a detailed list of steps to help write a program. This is known as 'Human What are the main differences between an Programming is making the switch from listing steps in detail as an algorithm to encoding 'Algorithm' and (creating code) them. This is known as 'machine language'. 'Programming'?

Why are Functions used in • It makes it easier and less time consuming to write larger programs a program? • It reduces the errors in a program as you have to write less new code • It is easier to find errors as you have to test less new code (quicker debugging) • It is easier to link parts of the program to other parts (modules)

Career Focus - Where could this take you?



I am a Digital Product Owner (DPO) and lead a team of specialists to build online products and services for customers. One of my responsibilities include looking at user feedback to help improve the product.

Challenge Activities



- 1. Create a step-by-step tutorial document that explains how to convert from Binary to: A) Denary B) Hexadecimal C) ASCII
- 2. Create a poster or presentation on MS PowerPoint that provides information about 'IPOS cycle' including the following points:

A) What is the IPOS cycle? B) What does it do? C) Examples of input and output devices

3. Create a short vlog about Netiquette. In the vlog, explain the following: A) What is Netiquette? B) Why it is important? C) Some important rules to follow D) Any other interesting information about Netiquette.

Topic Links



Additional Resources



- Computing Curriculum:
- (3.4) How to carry out simple operations on binary numbers (3.5) How components and systems communicate with each other (3.6) Understand how instructions are stored and executed
- Otherlinks: Math's (Inference & Arithmetic) and English (Promote communication skills & prevent miscommunication)

To further practise and develop your knowledge see:

-Input, Process, Output and Storage

https://www.youtube.com/watch?v=DKGZlaPIVLY&t=76s

-The Binary System

https://www.voutube.com/watch?v=sXxwr66Y79Y -What are Functions?

https://www.voutube.com/watch?v=5tmtBidw62w



CAPE

Our students will:

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



James Rizzi

Newsome Academy Year 7 Pop Art

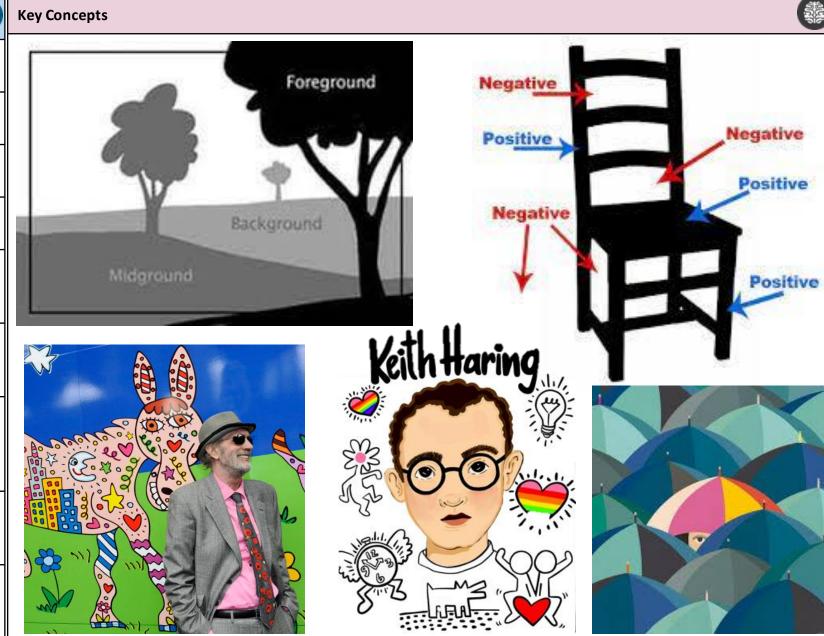
The aims of the sequence of learning are to ensure that all students:

- Learn about the work of Keith Haring.
- Learn about the work of James Rizzi
 - out focal point and why it is important.

- Learn about foreground, middle ground and background in art.
- Learn about positive and negative shape.
- Learn how to present work in a creative and imaginative way.

	Learı	n abc
Keyword	Definition	Ke
Focal point	The area of a picture that attracts the eye.	
Positive shape	Positive shapes represent solid objects.	
Negative shape	Negative shape is the space around an object.	
Foreground	The area of the picture nearest to the viewer.	
Middle ground	The space that naturally occurs between the foreground and the background .	
Background	The part of an artwork representing what lies behind objects in the foreground.	
Pop Art	Movement that emerged in the mid to late 1950s. Artists included imagery from popular and mass culture	3
Keith Haring	American artist whose work emerged from the New York City graffiti subculture of the 1980s.	

American artist whose work has an instantly recognisable childlike quality.





Year 7 Pop Art

Answers

muted.

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

- Learn about the work of Keith Haring.
- Learn about the work of James Rizzi
- Learn about focal point and why it is important.

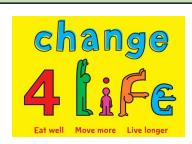
- Learn about foreground, middle ground and background in art.
- Learn about positive and negative shape.
- Learn how to present work in a creative and imaginative way.

Retrieval Practice

Questions



What government initiative
uses Keith Haring style artwork
in its promotional content?



How would you describe objects that are in the foreground of a piece of artwork?

They are bigger than objects in the middle ground and background. Details can be seen easily and colours are bold.

They are smaller than objects in the middle ground and

foreground. Fewer details can be seen and colours are

How do objects in the background of a picture appear?

What are the characteristics of Much of his work is inspired by New York City. He paints buildings that have human characteristics (faces), and it resembles children's drawings.

What is a landmark?

James Rizzi's work?

A building or an object that is instantly recognisable and lets people know where they are. E.g. The Empire State Building in New York City

Career Focus - Where could this take you?





My job is a tattoo artist. I research and produce designs based on clients' ideas. I am a specialist in the application of permanent designs and artwork on the skin using specialized tools, such as tattoo machines or handheld needles.

Challenge Activities



Try some of these drawing tasks at home:

Watch these dance moves then draw them in the style of Keith Haring (3) Best of Favorite Dance Moves - YouTube

Create your own positive and negative art pieces

(3) Art lesson online: Make outstanding art with positive & negative space! Great at home or in school. YouTube

Create a James Rizzi inspired piece of work based on your local area or a city of your choice.

Topic Links



Additional Resources



This topic links to:

- Geography famous landmarks and buildings.
- Food technology Healthy eating.
- Physical Education Promotion of exercise for maintaining health.

To further practise and develop your knowledge see:

https://www.youtube.com/watch?v=LcJgEopLalk

https://www.voutube.com/watch?v=IHBm8_ooPVo

https://www.voutube.com/watch?v=5nzdtFBbrCQ



Year 7 Textiles

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

- Explain how a resist method of dyeing is created.
- Demonstrate safe use of tools and equipment.

Key Concepts

Resist

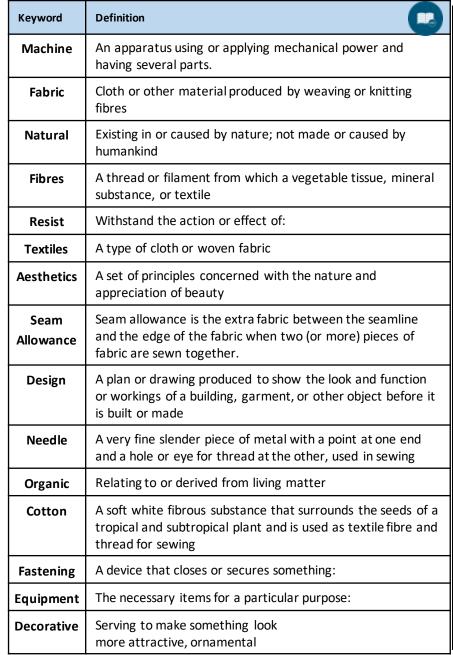
receive

- Rank Fibres in order of environmental impact.

- Justify the importance of sustainability within Textile manufacture.
- Calculate the costings of materials and production
- Explain the lifecycle of a cotton T-shirt

Sewing

• Demonstrate a clear understanding of the manufacturing Process



dyeing is

a type of resist dyeing.

а

colours. Resist materials

colouring yarn or fabric in order to

create a pattern by resisting certain

areas, so that only the unblocked areas

including thread, wax, rice or mud paste

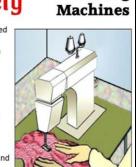
are used in this dyeing process on the

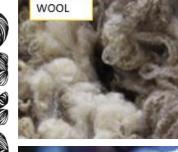
basis of the patterns. Tie-dye method is

technique

Health and Safety

- Only use sewing machines in a designated area of the classroom.
- Unplug the sewing machine when not in
- Do not use bent or broken needles.
- Switch off the sewing machine whilst making adjustments in the needle area.
- Keep fingers away from moving parts.
- Make sure foot peddle wiring is tidy and kept away from moving parts.
- Turn off the sewing machine before removing the plug from the socket.
- Make sure the machine is switched off and the foot peddle is packed away when











Plant Fibres Applications Summer clothing, table cloths Of Natural Properties











Newsome Academy Year 7 Tool Roll Project

- Explain how a resist method of dyeing is created.
- Demonstrate safe use of tools and equipment.
- Rank fibres in order of environmental impact.
- The aims of the sequence of learning are to ensure that all students: Justify the importance of sustainability within textile manufacture.
 - Calculate the costings of materials and production • Explain the lifecycle of a cotton T-shirt
 - Demonstrate a clear understanding of the manufacturing process

Retrieval Practice



A1	A2	А3	A4	A5
From a plant	From a factory	From Coal & oil	From Aldi	From a tree
A rabbit	A moth	A butterfly	A worm	A cow
A list of design solutions	A list of costings	A list of design issues	A list of important points	A detailed list of what the product must be
A thin thread of a natural or synthetic substance	A source of material	An origin of cotton	A type of synthetic fibre	A fraying edge
A method of adding colour to fabric with paint	A Type of Resist Dyeing	A type a pattern dyeing	A type of printing	A type of fabric testing
Stretchy	Soft handle	Creases easily	Stiff	Strong
Quick Corrections (bridge learning gaps & misconceptions)		s &		
	From a plant A rabbit A list of design solutions A thin thread of a natural or synthetic substance A method of adding colour to fabric with paint Stretchy	From a plant From a factory A rabbit A moth A list of design solutions A thin thread of a natural or synthetic substance A method of adding colour to fabric with paint Stretchy Soft handle	From a plant From a factory Prom Coal & oil A rabbit A moth A butterfly A list of design solutions A source of thread of a natural or synthetic substance A method of adding colour to fabric with paint Stretchy Soft handle Creases easily From Coal & oil A butterfly A list of design issues A list of design issues A norigin of cotton A type a pattern dyeing Creases easily	From a plant From a factory From Coal & From Aldi A rabbit A moth A butterfly A worm A list of design solutions A list of costings of thread of a natural or synthetic substance A method of adding colour to fabric with paint Stretchy Quick Corrections (bridge learning gap

Career Focus - Where could this take you?





Textile designers create designs for knitted, printed and woven textiles. Textile design can include designing:

- textiles for clothing and accessories
- fabrics and furnishings
- printed, paper-based products

You will need a foundation diploma in Art & Design or A level equivalent, Kirklees College offer a Level 1-3 in Art and Design and Leeds City College offer a Level 3 diploma in Fashion and Textiles, you will need 4 GCSE grades 4 and above including maths and English.

Salaries usually range from around £13,000 to £40,000 a year.

Challenge Activities





Properties

Suggested Fibre Type

Product Type



Properties

Suggested Fibre Type

Product Type

Topic Links



Additional Resources



This topic links to:

- Science- How fibre properties are created and
- English-Subject specific Vocabulary knowledge, understanding and spelling.
- Maths Material costings and standard measurements in length.

To further practise and develop your knowledge see:

- The ONLY textiles recycling video YOU NEED TO WATCH - YouTube
- How to Tie-Dve at Home Like a Pro Try These 5 Easy Techniques!-YouTube
- Classification Of Textile Fibers Sources Of Textile Fibre - YouTube
- Fairtrade How Cotton Is Produced YouTube



Coping Saw

Orthographic

Design

Function

Glass Paper

Year 7 Resistant Materials

The aims of the sequence of learning are to ensure that all students: Demonstrate safe use of tools and equipment.

- Explain a range of Decorative Techniques
- Rank Smart Fibres in order of environmental impact.

- Annotated a range of design ideas which include moral and cultural issues.
- Demonstrate an understanding of smart materials.

Key Concepts

Product Analysis

SIZE

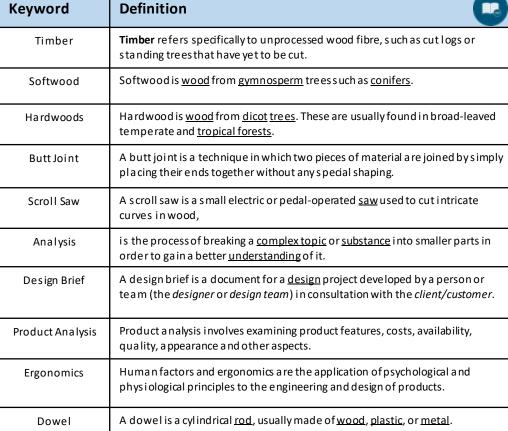
FUNCTION

MATERIALS

ACCESS FM 0: **AESTHETICS** COST CUSTOMER ENVIRONMENT SAFETY

880





interior cut-outs in woodworking or carpentry.

Means how a product works, what does it do.

in two dimensions.

and, in most cases, detailed.

down rough surfaces in wood,

A coping saw is a type of bow saw used to cut intricate external shapes and

Orthographic projection is a means of representing three-dimensional objects

A design is a concept of either an object, a process, or a system that is specific

Thick paper which has tiny glass particles glues to the surface, used to sand



Academy Year 7 Desk Tidy Project

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

- Demonstrate safe use of tools and equipment.
- Explain a range of Decorative Techniques
- Rank Smart Fibres in order of environmental impact.
- Annotated a range of design ideas which include moral and cultural issues.
- Demonstrate an understanding of smart materials.

Retrieval Practice



Question	A1	A2	А3	A4	A5
A. What is a Design Brief	Story	List	Outline	Prices	Function
B. Whatis a product analysis?	Function	Research	Aesthetics	Disassembling	Fixing
C. Types of Softwood. (select more than one)	Oak	Pine	Spruce	Teak	Balsa
D. Types of Hardwood. (select more than one)	Teak	Pine	Mahogany	Oak	Balsa
E. Whatis a consumer?	Maker	Buyer	Designer	User	Maintainer

A. What is a Design Brief	Story	List	Outline	Prices	Function
B. Whatis a product analysis?	Function	Research	Aesthetics	Disassembling	Fixing
C. Types of Softwood. (select more than one)	Oak	Pine	Spruce	Teak	Balsa
D. Types of Hardwood. (select more than one)	Teak	Pine	Mahogany	Oak	Balsa
E. Whatis a consumer?	Maker	Buyer	Designer	User	Maintainer
F. What is ergonomics?	Me a s urements	Human interaction	Environmental	Costs	Protection
Questions Which you got wrong	Quick	Corrections (bridg	ge learning gaps	& misconception	ns)

Career Focus - Where could this take you?





Carpenters apply diverse skills and use various materials and equipment to build or repair houses and other structures, wooden fittings and furniture. If you enjoy creating or restoration work, you may find a career in specialist carpentry a good fit for you.

Kirklees college offer an Onsite Construction: Carpentry and Joinery Level 3 you will need 5 GCSE grades 4 or above must include Maths and English.

Salaries usually range from£25,000-£48,000

Challenge Activities



Can you name the selection of equipment and explain how it is used?









Topic Links



Additional Resources



This topic links to:

- · Science- How trees are made and fiber properties.
- English- Subject specific Vocabulary knowledge, understanding and spelling.
- Maths- Measurements in cm for practical.

To further practise and develop your knowledge see:

https://voutu.be/zfK7TLobsv0

https://voutu.be/7LBv2UWOI4Y

https://voutu.be/7s-I3XOobTM



Year 7 Food Tech

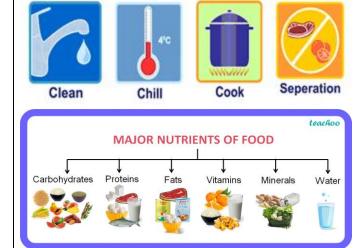
- The aims of the sequence of learning are to ensure that all students:
- Use safe and hygienic practices in a working kitchen environment
- Demonstrate sound preparations kills of both equipment and ingredients

Safely use a range of cooking techniques, a ppropriate to the task

Key Concepts

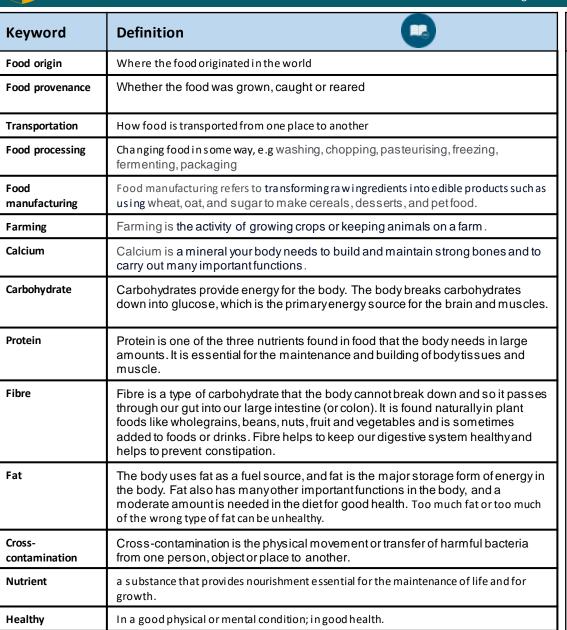
The 4Cs Concept

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











Year 7 Food Tech

Use safe and hygienic practices in a working kitchen environment Demonstrate sound preparation skills of both equipment and

Demonstrate sound preparation skills of both equipment and ingredients

Key Concepts

Pizza



Ingredients:

2 pitta bread or flour tortilla 100g cheese

1 meat topping i.e. cooked ham or chicken

2 vegetable toppings i.e. half an onion/pepper/3 mushrooms

We will be chopping the toppings and grating the cheese in the lesson.

Equipment:

- Grater
- Vegetable knife
- Chopping board
- Baking tray
- Round bladed knife

Practical skills:

- Weighting & Measuring
- · Baking: oven skills
- Timing
- Baking
- Knife skills: preparation of fruit and vegetables

KEY NUTRIENTS

- Carbohydrates starch and sugar
- Fat
- Protein
- · Vitamins from the fruit

Method:

- 1. Preheat oven to 180c
- Select the correct coloured chopping board and chop you veg and meat using correct methods
- 3. Grate your cheese into a bowl
- 4. Using a spoon, spread the passata sauce over the top of your bread and sprinkle on some oregano
- 5. Spread your toppings evenly across your pizza base
- 6. Add cheese over your toppings
- 7. Bake in the oven for 10 minutes.

KITCHEN CONVERSIONS **SPOONS & CUPS** 1/8 1/16 1/32 1/4 1/8 DESSERTSPOON TEASPOON GRAMS 114 170 226 340 454 1

HYGIENE & SAFETY TIPS

- Wash your hands with warm soapy water before you begin.
- Check gas ovens are lit correctly.
- Use oven gloves when you take tray out of the oven

Demonstrate sound preparation skills of both equipment and



Year 7 Food Tech

Stuffed Peppers





Equipment:

- Chopping board
- Vegetable knife

ingredients

- Colander
- Wooden spoon
- Mixing bowl
- Table spoon
- Baking tray

Ingredients

25g couscous (provided by Miss Cole 1 large pepper 40ml boiling water Stock cube Spring onion/halfred onion 1 tomato or 3 cherry tomatoes 30g grated cheese Teaspoon parsley

Skills:	Meaning
1.	General Practical Skills: Weighing ingredients, measuring, preparing ingredients and equipment, correct cooking times, testing for readiness and sensory testing.
2.	Knife skills: Can use equipment safely. Slicing, dicing and chopping
3.	Preparing fruit and vegetables: I can prepare fruit and vegetables in many different ways: Slicing, peeling, grating, dicing and chopping.
7.	Preparing, combine and shape: Techniques to prepare, cook and combine different ingredients.

Method:

- Preheat oven to 180°c
- Put your couscous into bowl and cover with 40ml boiling water. Add half of a stock cube and stir once. Cover with a plate.
- Chop your spring onion, parsley and tomatoes finely.
- Grate your cheese onto a plate.
- Very carefully remove the top from your pepper and empty the seeds out. Use a metal spoon to help you scrape the insides out.
- Mix your vegetables with your couscous and put inside your pepper.
- Add the cheese on top of the pepper and wrap the pepper in tin foil.
- Carefully put the pepper into the oven for 20 minutes. A few minutes before the end, very carefully remove the foil so that the cheese bubbles and caramalises



Year 7 Food Tech

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

- Use safe and hygienic practices in a working kitchen environment
- Demonstrate sound preparation skills of both equipment and ingredients

Safely use a range of cooking techniques, a ppropriate to the task $\,$

Retrieval Practice Questions **Answers** What are 8 tips for healthy Base your meals on higher fibre starchy carbohydrates. Eat lots of fruit and veg. eating? Eat more fish, including a portion of oily fish. Cut down on saturated fat and sugar. Eat less salt: no more than 6g a day for adults. Get active and be a healthy weight. Do not get thirsty. Do not skip breakfast Why is weighing and Weighing and Measuring for good results in most recipes, accurate weighing and measuring is essential. measuring important? When you are baking with flour, sugar and liquids, you must measure accurately, or your cooking will be spoiled. If you weigh out too much sugar or too little raising agent, your cakes will not rise or you could spoil the taste and/or texture. Food can be weighed in Grams (g). 1000g = 1 Kilogram (kg). Liquid is measured in Millilitres (ml) or litres (l). 1000ml = 1 Litre(l) What are the most Be aware of sharp equipment such as knives, peelers and gratersimportant health and safety store them carefully and use the bridge hold and claw grip when and personal hygiene rules? chopping. Take care with hot equipment and food/liquids-turn pan handles in, always use oven gloves and avoid splashes when stirring or draining foods. Wipe up spills quickly so you do not slip over Be aware of others in the kitchen Report any accidents to the teacher Tie hair back Wash your hands

Career Focus - Where could this take you?



My job is a **food technologist** and I study foods and their nutritional content. I use laboratory skills and techniques to identify nutrients and calorie content of foods.

I need a genuine interest in science and how it is applied to food and cookery, high standards of cleanliness and the ability to adhere to strict hygiene rules.

Challenge Activities



Try some of these recipes at home Follow the links below:

Energy Bar

Home made burgers

Chapatti recipe

For Further 30 minute recipes

Food skills are acquired, developed and secured over time

Bridge hold

Claw grip



Topic Links



Additional Resources



This topic links to:

- English relating explicitly to known vocabulary and understanding it with the help of context
- Mathematics use standard units of mass, length, time, other measures
- Science: Nutrition and digestion RSE What constitutes a healthy diet
- Physical health and fitness The characteristics and mental and physical benefits of an active lifestyle.

To further practise and develop your knowledge see:

<u>Eat well guide Quiz</u>

Eat well guide

Eat well video resource



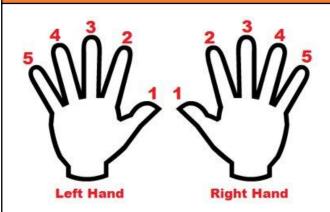
Year 7 Keyboard Skills and Notation

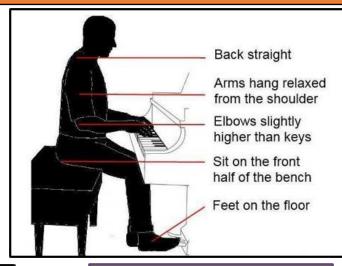
The aims of the sequence of learning are to ensure that all students:

- Develop keyboard skills using correct keyboard technique
- Learn the relevant technical musical vocabulary
- Learn how to read basic pitch notation using the treble and bass clef
- Learn to perform a range of keyboard pieces, demonstrating articulation and expression, as well as technique

Keyword	Definition
Keyboard	a set of keys on a piano or similar musical instrument.
Octave	A range of 8 notes e.g. C to C
Technique	The correct way to carry out a task, such as how to play a musical instrument
Ascending	Pitch going up
Descending	Pitch going down
Stave	The five lines and 4 spaces that all western notation is written
Treble Clef	The treble clef is a tool musicians use to notate pitches above middle C on the piano
Tone/Semi-tone	A semitone (or half step) is the distance in pitch between a note and its nearest neighbour. E.g. C to C sharp. A tone is two steps
Scale	An ordered sequence of notes
Fluency	Being able to perform without hesitancy
Sharp	Higher in pitch by one semitone
Flat	Lower in pitch by one semitone

Key Concepts







Performing with the correct technique is important as without good technique, you will not be able to play correctly or accurately. Use these images to help you.

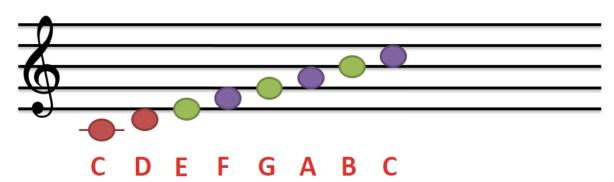


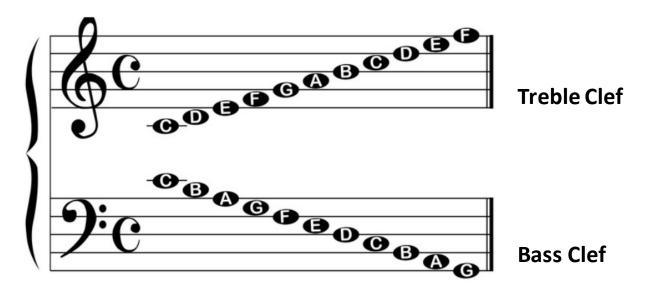
Year 7 Keyboard Skills and Notation

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- · Learn how to read basic pitch notation using the treble and bass clef
- Learn to perform a range of keyboard pieces, demonstrating articulation and expression, as well as technique

C Major Scale





Career Focus - Where could this take you?





I am a piano tuner. Pianos are made up of hundreds of strings and these strings can become lose and go out of tune. I have a range of tools that helps me to retune the strings in the piano. I can also fix parts of pianos to make them playable again. I also can play the piano and have an excellent ear for pitch.

Challenge Activities



Name that pitch! https://www.musictheory.net/exercises/note

Further reading https://www.musicca.com/notes

Another quiz! https://www.musictheoryacademy.com/music-theory-quizzes/

Topic Links



Additional Resources



This topic links to

Maths — understanding of pitch requires knowledge of half steps and full steps and the ability to count in different intervals

Science – pitch is a scientific concept. Concert A has a frequency of 440 Hz vibrations per second

Free sheet music for piano -

https://makingmusicfun.net/htm/printit_piano_sheet_music_index

Have a go at writing your own melody-

https://www.bbc.co.uk/bitesize/topics/z3dqhyc/artides/z 7n2qp3



Year 7 Net and Wall Games

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

- Can identify at least three core skills required for net and wall games Demonstrate core skills in a practice situation
 - Demonstrate core skills in a game situation Lead a small group of peers in a skill practice session

Keyword	Definition
Racket	A piece of equipment with a handle, frame and head. This is used to hit the shuttle or ball over the net
Shuttle	A cone shaped object with a cork base. This is hit over the net with the racket.
Net	Rectangular net placed across the court. It divides the court in two.
Court	The playing surface area marked out with lines
Table	The playing surface used to play table tennis
Serve	A shot that is selected to start a game in net and wall activities
Forehand shot	Shot taken with the palm of your hand facing the direction of the stroke

Key Concepts You should already know: - The aim of net and wall games

You will be assessed on: - Understanding - Technique in isolation - Technique in game - Leadership - Attitude to learning



Table Tennis Key Concepts

Ready Position

Players should always be in the ready positon before receiving the ball.

- Knees bent
- Feet shoulder width apart
- Feet shoulder width apart
- Racket should be level with the table and in front of body



Backhand push

- Ready position
- Controlled backswing so your elbow bends inwards towards chest (making an L shape)
- Forward movement comes from the elbow making contact underneath the ball
- Finish by extending your arm in the follow through (changing from an L shape to a I shape)

Forehand Drive

- Ready position
- Controlled backswing, with striking arm opening up extending outwards
- Positive forward movement, arm moves forward and weight transfers from right to left foot
- Strike the ball on top of the bounce
- Follow through the shot, moving upwards and finishes in line with your nose

Backhand serve

- Ready position
- The ball rests in the palm of the resting hand
- Arm moves back towards chest
- Toss the ball up (at least 15cm)
- Forward movement comes from the elbow making contact down on the <u>ball</u> so it bounces on your half of the table first
- Head should be over the ball when making contact
- · Follow through by returning to the ready position

Badminton Key Concepts



The Basics



The aim of badminton is to hit the shuttle with your racket so that it passes over the net and lands inside your opponent's half of the court. Whenever you do this, you have won a rally; win enough rallies, and you win the match.

Your opponent has the same goal. He will try to reach the shuttle and send it back into your half of the court. You can also win rallies from your opponent's mistakes: if he hits the shuttle into or under the net, or out of court, then you win the rally.

Scoring

A point is scored when you successfully hit the shuttlecock over the net and land it in your opponent's court before they hit it. A point can also be gained when your opponent hits the shuttlecock into either the net or outside the parameters

To win a game you must reach 21 points before your opponent. If you do so then you will have won that set. If the scores are tied at 20-20 then it comes down to whichever player manages to get two clear points ahead. If the points are still tied at 29-29 then the next point will decide the winner of the set. Winning the overall game will require you to win 2 out of the 3 sets played.



Year 7 Net and Wall Games

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

- Can identify at least three core skills required for net and wall games Demonstrate core skills in a practice situation
- Demonstrate core skills in a game situation Lead a small group of peers in a skill practice session

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Retrieval Practice		
Questions	Answers	
What are some of the core skills needed for attacking in badminton?	 Smash shot is a core skill. The aim is to hit the shuttle as hard as possible to the oppositions side of the court. The long serve is a core skill for attacking in badminton. The aim is to send the opponent to the back of the court. 	
What are some of the core skills needed for defending in badminton?	 The overhead clear shot is used in a rally situation so that you force your opponent to move to the back of the court. The drop shot is a gentle forehand or backhand shot that applies little force to the shuttle, so it drops just over the net. 	
What are some of the core skills needed for attacking in table tennis?	 Top spin forehand drive shot is a fast open palm shot facing the direction of the stroke. By placing top spin on the ball, the balls rotation means it travels faster. Back spin forehand or backhand shot is a skill that is designed to slow down the speed of a rally in table tennis. 	
What are some of the core skills needed for defending in badminton?	Backhand push shot and the forehand push shot are two skills designed to slow down the speed of a rally in a game. This gives the person more time to react to the next shot.	

Career Focus - Where could this take you?





I am a professional badminton racket maker. My main job is to repair and restring professional athletes' rackets. I have to ensure the quality and accuracy with the weight of the racket, balance point, string tension and hand grip.

Challenge Activities



Design a skill card:

This can be used in a PE lesson to help a student to assess their current ability level. Make the skill card to teach the correct way to Serve in either badminton or table tennis.

Create a rules of the game poster:

This can be used by all students in their PE lessons for badminton or table tennis when their role is umpiring a game so that all games can be played fairly, following RITA values. Your poster should have 3-5 basic rules.

Topic Links



Additional Resources



This topic links to:

- Science The role of the cardiovascular system; the physics of sports
- English understanding and defining key terminology
- Mathematics problems olving, recording figures and analysing performance and score keeping
- Voice 21 coaching peers and explaining rules by officiating

To further practise and develop your knowledge see:

https://www.badmintonengland.co.uk/

https://www.tabletennisengland.co.uk/



Year 7 Health and Fitness

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

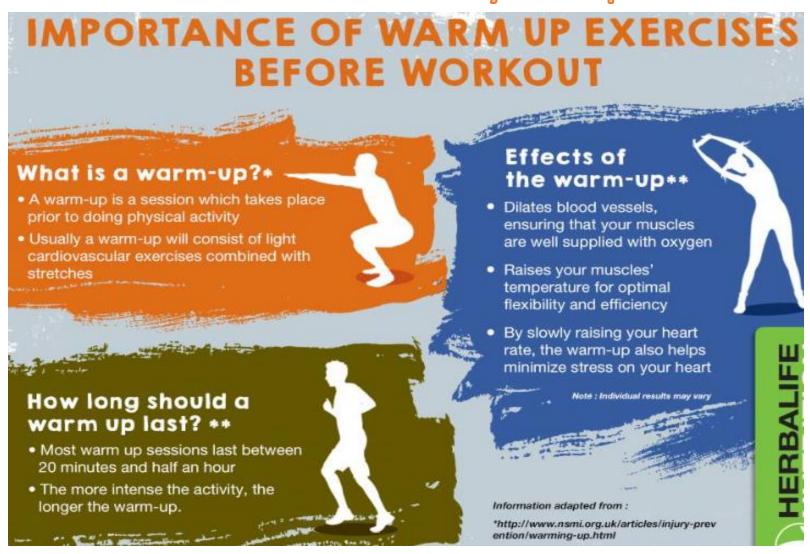
Being a ble to demonstrate the: set up, completion and interpretation of fitness tests. Learning about and understanding the components of fitness and how they can be trained. Learning which components of fitness are important to specific types of athlete. Learning about and completing training sessions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

Keyword	Definition	
Power	Power = strength x speed. They are used together to move in sport.	
Co-ordination	The ability for muscles to move different body parts in time.	
Reaction Time	The time taken for a person to react to the movement in sport.	
Agility	The ability to change direction at speed.	
Balance	The ability to maintain your centre of mass and control without falling over.	
Speed	To move quickly in the shortest time over a distance.	
	Speed=distance/time.	
Cardiovascular endurance	The ability for the heart and blood vessels to transport oxygenated blood to the working muscles so they work for a long time.	
Muscular strength	The maximum force that your muscles can make to move an object.	
Muscular endurance	Your muscles can work continuously at a low to medium level 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





Year 7 Health and Fitness

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

Being able 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.

Retrieval Practice:

Use the missing words to complete the fitness testing protocols for the three different tests below.



Francoura in the second				
What is the test protocol? (Fill in the missing words) Missing words: Between, Side,	The athlete chalks the end of his/her finger tips The athlete stands onto the wall, keeping both feet remaining on th ground, reaches up as high as possible with one hand and marks the wall with the of the fingers The athlete from a position jumps as high as possible and marks			
Average, Static, Tips	the wall with the chalk on his fingers The assistant measures and records the distance the two marks The athlete repeats the test 3 times The assistant calculates the of the recorded distances and uses			
Standing Long Jump test	this value to assess the athlete's performance.			
What is the test protocol? (Fill in the missing words) Missing words: Tips, Extended Reaches Average Shoes	The athlete warms up for 10 minutes and then removes their The assistant secures the ruler to the box top with the tape so that the front edge of the box lines up with the 15cm (6 inches) mark on the rule and the zero end of the ruler points towards the athlete. The athlete sits on the floor with their legs fullywith the bottom of their bare feet against the box. The athlete places one hand on top of the other, slowly bends forward andalong the top of the ruler as far as possible holding the stretch for two seconds. The assistant records the distance reached by the athlete's finger(cm).			
Sit and reach test	The athlete performs the test three times. The assistant calculates and records the of the three			

What is the test protocol?

(Fill in the missing words)

Missing words:

Whistle Warms up Go 400m 12 minutes

Cooper 12 min run

 The athlete for 10 minute 	25.
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• The assistant gives the command "____", starts the stopwatch and the athlete commences the test.

distances and uses this value to assess the athlete's performance.

- The assistant keeps the athlete informed of the remaining time at the end of each lap (
- The assistant blows the when the has elapsed and records the distance the athlete covered to the nearest 10 metres.

Career Focus - Where could this take you?





My career is known as a healthy lifestyle coach. I help people with problems linking to their health. I give advice on how people can change their physical, mental and social health by setting goals and targets for people to achieve.

My job is very rewarding as it makes a positive impact on people's lives.

Challenge Activities



Design a Fitness test knowledge card:-

Can you create a fitness test card that shows the instructions on how to complete the tests and include a picture and diagram to help with your understanding. This could be completed using a computer or on A4 paper.

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		
Th	nis topic links to:	
•	RSHE-Understanding physical acti	
	physical, mental and social wellbein	
•	English – understanding and defining	
•	Mathematics – problems olving, reco	

Additional Resources



- ivity can help with
- g key terminology
- cording figures and analysing performance.
- Voice 21 testing others in the class on keywords and the reasons why it is important to warm up.

To further practise and develop your knowledge see:

https://www.topendsports.com/testing/tests/

https://www.teachpe.com/training-fitness/fitness-testing



Usernames and Passwords