# **Year 9 – HT1**



# **Knowledge Organisers**

Name:

Team:



# Mathematics

#### Our students will:

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



# Newsome Academy Year 9 Straight line Graphs

#### What do I need to be able to do?

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

- Compare aradients
- Compare intercepts
- Understand and use u- mx + c
- Find the equation of a line from a graph
- Interpret gradient and intercepts of reallife arabhs

#### Keuwords

i Gradient: the steepness of a line

I htercept: where two lines cross. The u-intercept: where the line meets the u-axis.

Parallel two lines that never meet with the same gradient.

Co-ordinate: a set of values that show an exact position on a graph.

I Linear: Inear graphs (straight line) — Inear common difference by addition/subtraction

Osumptote: a straight line that a graph will never meet.

Reciprocal a pair of numbers that multiply together to give 1

I **Perpendicular**: two lines that meet at a right angle.

# htersection

Compare Gradients

The coefficient of x (the

number in front of x1 tells us

the aradient of the line

Find the equation from a graph

intercept.

4 -3 -2 -1

y = mx + c

ines parallel to the axes 🔞 all the points on this line have 'a' can be ONY postive or negative value including ")| a x coordinate of 10 Lines parallel to the u axis take the form x - a and are vertical Lines parallel to the x axis take the form u - a and are horizontal Oil the points on this line have eg (3,-2) (7,-2) (-2,-2) a u coordinate of -2 all lay on this line because the

Plotting y = mx + c graphs → 3 x the x coordinate then — 1 y = 3x - 1

Draw a table to display this information

This represents a coordinate pair (-3, -10)

> You only need two points to form a straight ine Plotting more points helps you decide

if your cabulations are correct (if they do make a straight, line)

Remember to join the points to make a ire

#### Career Focus - Where could this take



As a data analyst I collect, organize, and study data to provide business insights. I use my skills to uncover patterns, trends, and relationships within the data, helping companies make decisions.

#### **Retrieval Practice**

- Does the coordinate (3, 7) lie on the line y = 7? How do you know?
- What is the mode of the data?

16, 25, 16, 19, 32

- 60 people voted for their favourite colour, 23 people voted for red. What would the angle in a pie chart be for red?
- 4) What is the area of the circle? Give your answer in terms of  $\pi$ .



#### Compare intercepts y = mx + (c) which the line crosses the y-The value of c is the point at axis Y intercept The coordinate of a u intercept will always be (O,c)

The Gradient

Lines with the same uintercept cross in the same

The direction of the line indicates a positive

y = 2x + 1

#### u = mx + c

u coordinate is -2

The greater the

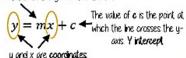
aradient — the steeper

the line

Parallel lines have the

same aradient

The coefficient of x (the number in front of x) tels us the gradient of the line



c = u - mx Identify which coefficient you are identifying or comparing

he u-intercept shows th

minimum charge.

he gradient represents the

price per mile

The equation of a line

can be rearranged. Egi

4 - C + mx

#### Real life araphs

The gradient shows the

A plumber charges a £25 callout fee, and then £12.50 for every hour.

Complete	the rapid of A	191062 10.21	IOM THE COST	Ot timing o	ne promoer.
Time (h)	0	1	2	3	8
Cost (€)	£25			7	£125

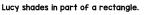
In real life graphs like this values will always be positive because they measure distances or objects which cannot be negative.

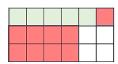
Direct Proportion graphs To represent direct proportion the graph must start at the origin.

When you have 0 pens this has 0 cost.

A box of pens costs £2.30 Complete the table of values to show the cost of buying boxes of pens. Cost (£) €2.30

#### **Challenge Activities**





She shades some more squares.

 $\frac{1}{3}$  of the rectangle is now shaded.

How many more squares did Lucy shade?

#### **Topic Links**

This topic links to: Substitution, rate of change

#### **Additional Resources**

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

Number: 160



# Academy Year 9 Forming and Solving Equations

#### What do I need to be able to do?

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

- Solve inequalties with negative numbers
- Solve equations with unknowns on both sides
- Solve inequalties with unknowns on both
- Substitute into formulae and equations
- Rearrange formulae

#### !Keywords

**Inequality**: an inequality compares who values showing if one is greater than, less than or equal to another

I Variable: a quantity that may change within the context of the problem

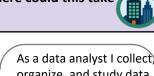
Rearrange: Change the order

Inverse operation: the operation that reverses the action

Substitute: replace a variable with a numerical value

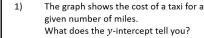
Solve: find a numerical value that satisfies an equation

#### Career Focus - Where could this take



organize, and study data to provide business insights. I use my skills to uncover patterns, trends, and relationships within the data, helping companies make decisions.

#### **Retrieval Practice**

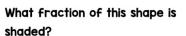


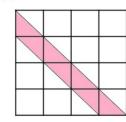


- A straight line has equation  $y = \frac{1}{2}x + 7$ What is the gradient of the line?
- Write down coordinates of three points that lie on the line y=4
- Work out  $\frac{5}{7} \times \frac{14}{15}$ 4)

Give your answer in its simplest form.

#### **Challenge Activities**





#### **Topic Links**

This topic links to:

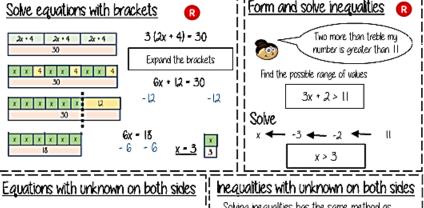
Bar models, Problem solving

#### **Additional Resources**

To further practice and develop your knowledge see:

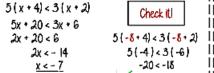
https://corbettmaths.com/contents/

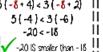
Number: 16



Solvina inequalities has the same method as equations

Form and solve inequalities 🔞





When you multiply or divide x by a negative you need to reverse the ➤ Equations — include numbers and can be solved | inequality

Inequalities with negatives

Method I Make x positive first

x is true for any value

smaller than -5

CHECK ITI

2 - 3(-6) - 20

TRUE/ CORRECT

x is true for any value

bigger than -5

This cannot be

true...

2 - 3x > 17

+ 3x + 3x

-15 × 3x ÷3

-5 × x

Keep the negative x

Method 2

-3x > 17

-3x > 15

÷-3 ÷-3

2 > 17 + 3x

#### Rearranging Formulae (one step)

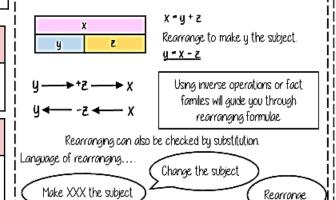
4x + 5 = 3x + 24

x+5-24

x = 19

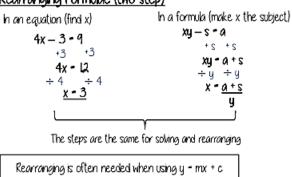
Formulae and Equations

Formulae — all expressed in symbols



Substitute in values

#### Rearranaina Formulae (two step)



e.g. Find the gradient of the line 2y - 4x = 9

Make u the subject first u = 4x + 9

Gradient = 4= 2



# Newsome Academy Year 9 Testing Conjectures

#### What do I need to be able to do?

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

- Use factors, multiples and primes
- Reason True or False.
- Reason Olwaus, sometimes never true
- Show that reasoning
- Make conjectures about number
- Expand binomials
- Make conjectures with alaebra
- Explore the 100 grid.

#### !Keywords

Multiples: found by multiplying any number by positive integers Factor: integers that multiply together to get another number.

Prime: an integer with only 2 factors.

i HCF: highest common factor (biggest factor two or more numbers share)

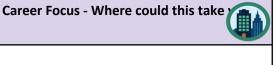
LCM: lowest common multiple (the first time the times table of two or more numbers match)

**Verifu**: the process of making sure a solution is correct

I Proof: logical mathematical arguments used to show the truth of a statement

Binomial: a polynomial with two terms

Quadratic: a polynomial with four terms (often simplified to three terms)

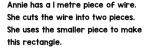


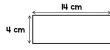
As a data analyst I collect, organize, and study data to provide business insights. I use my skills to uncover patterns, trends, and relationships within the data, helping companies make decisions.

#### **Retrieval Practice**

- Make b the subject of the formula. a = 2b + c
- Solve 5x + 2 = x 10
- The straight line passes through the point (3, 4). What is the equation of the line?
- Share £700 in the ratio 9:5

#### **Challenge Activities**





She uses the other piece of wire to make a square.

What is the length of one side of the square?

#### **Topic Links**

This topic links to:

Primes and factors. Expanding brackets

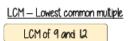
#### **Additional Resources**

To further practice and develop your knowledge see:

https://corbettmaths.com/contents/

Number: 218-219

#### Factors, Multiples and Primes HCF - Highest common factor Multiplication part-whole HCF of 18 and 30 models 18 1,23,6,9,18 5



9, 18, 27, 36, 45, 54 Oil three prime factor 12, 24, 36, 48, 60

#### ! True or False? Coniecture

a pattern that is noticed for many cases

The numbers in the sequence are doubling each time.



Only one counterexample is needed to disprove a conjecture

#### <u> Olwaus, Sometimes,</u> Never true.

Olways Every value always supports the statement

Examples show the statement being true and counter examples to show when it is false.

Never No example supports the statement

•	0 and 1
	Fractions

Negative numbers

Examples to tru

#### Show that

Olaebraic verification

Proof

l Expandina binomials

 $2(x + 2) \equiv 2x + 4$ 

 $i(x+3)(x+3) \equiv x^2 + 6x + 9$ 

Show the stages to a solution with numerical values Numerical verification

> Show algebraic properties of the solution You may want to use pictorial images to support this

> > Olgebra tiles

 $x^2$ 

Positive values

The order of the binomial

has no impact on the

ea(x + 3)(3 + x)

outcome.

Compare the left hand side of an equation with the

Olaebra tiles can

expansion

Has two terms

represent a binomial

This is a quadratic

It has four terms

which simplified to

three terms

right hand side — are they the same or different?

Simple proofs using algebra

# ¦¦Conjectures

(2n)

Multiple of 2



One more than any even

Use numerical verification first Use pictorial verification — the representations of numbers of odd and even

### Exploring the 100 square

In terms of n' is used to make generalisations about relationships between numbers

Positions of numbers in relation to n form expressions. Eg one space to the

> right of n n + 1

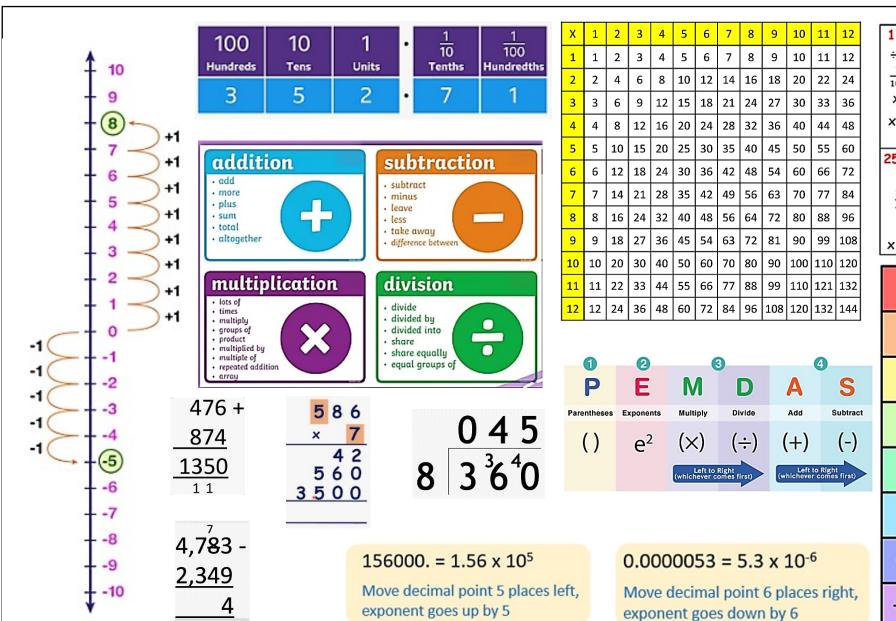
Ea One row below n n + 10

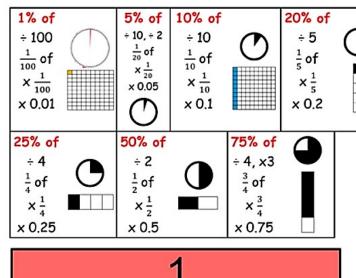
11 12 13 14 15 16 17 18 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

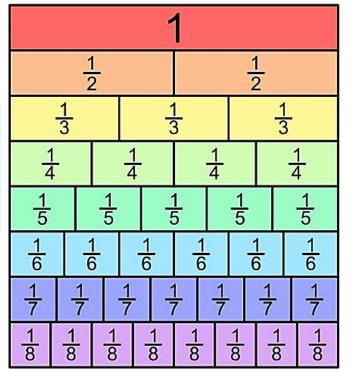
> The size of the grid for generalisation changes the relationship statements



# **Maths: Quick Reference: Number Skills**

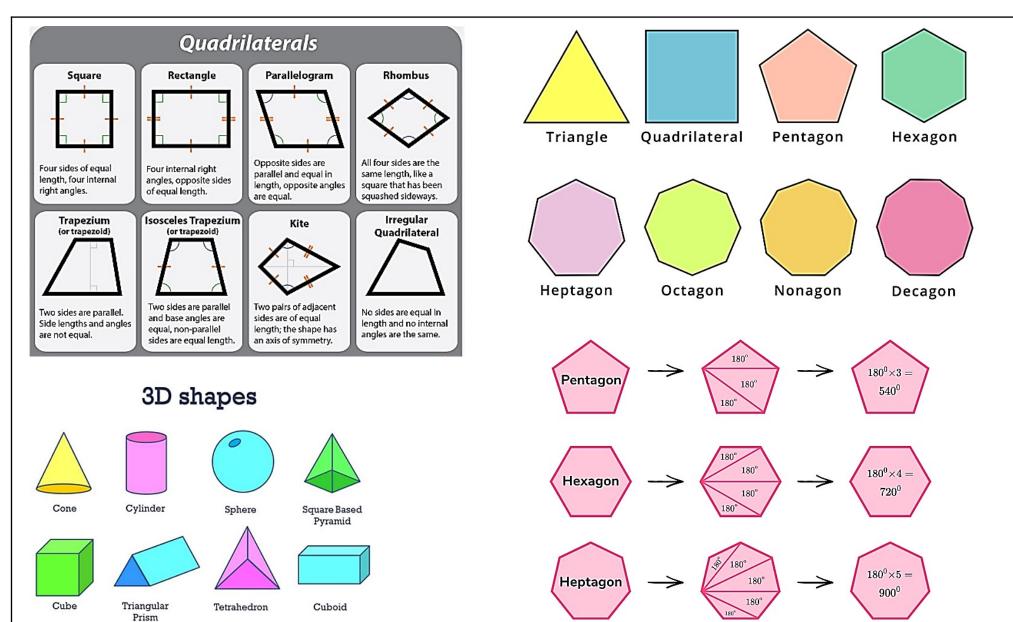


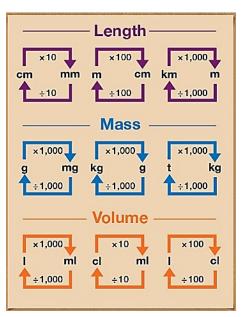






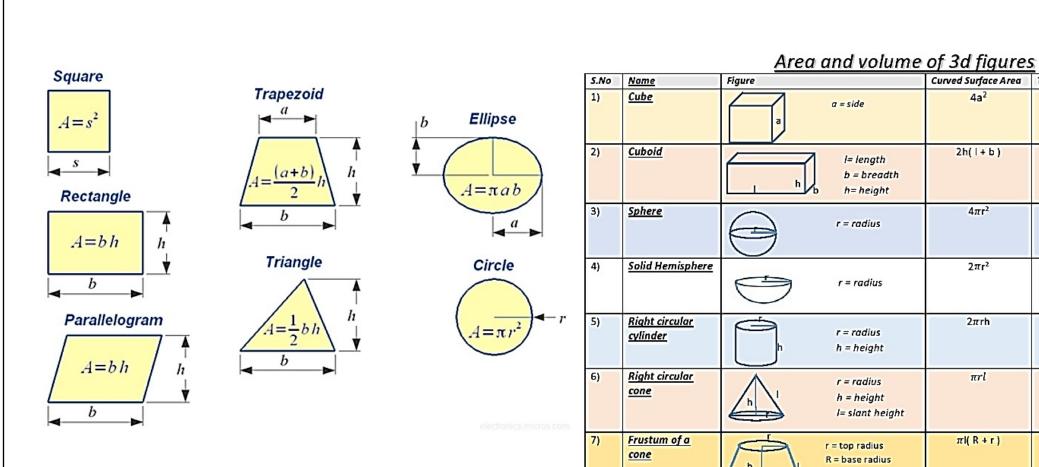
# Maths: Quick Reference: Geometry & Measures







# Maths: Quick Reference: Geometry (Areas & Volumes)



<u>me</u>	Figure		Curved Surface Area	Total Surface Area	Volume
<u>be</u>	To the second	a = side	4a²	6a <sup>2</sup>	a <sup>3</sup>
<u>boid</u>	h	l= length b = breadth h= height	2h( +b)	2(lb+ bh+ lh)	lxbxh
<u>here</u>		r = radius	4πτ²	<b>4</b> π r <sup>2</sup>	$\frac{4}{3}\pi$ r <sup>3</sup>
lid Hemisphere	9	r = radius	2πr²	3πr <sup>2</sup>	$\frac{2}{3}\pi r^3$
ght circular linder		r = radius	2πrh	2πr(h+r)	πr²h

 $\pi r l$ 

 $\pi I(R+r)$ 

I= slant height

 $\frac{1}{3}\pi r^2 h$ 

 $\frac{1}{3}\pi h(R^2+r^2+Rr)$ 

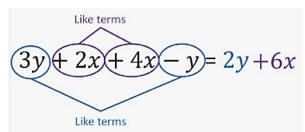
πr(l+r)

 $\pi I(R+r) + \pi r^2 + \pi R^2$ 



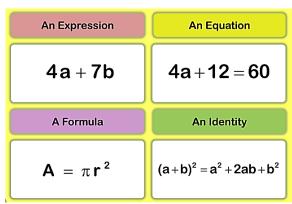
# Maths: Quick Reference: Algebra Skills

### **Simplifying Expressions**

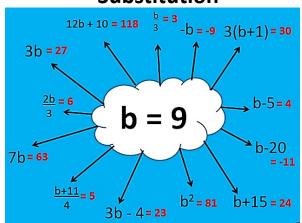


$$C \times C \times C \times C = C^4$$

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



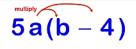
#### Substitution



#### **Expanding Brackets**



7x+14



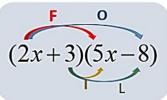
5ab - 20a

Expand & Simplify...

$$5(x+3)+6(x-4)$$
  
 $5x+15+6x-24$ 

11x - 9

#### **FOIL Method**



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

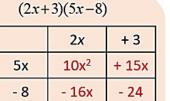
Outer: (2x)(-8) = -16x

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

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

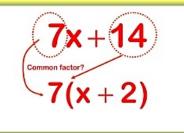
$$(2x+3)(5x-8)$$
= 10x<sup>2</sup> - 16x + 15x - 24  
= 10x<sup>2</sup> - x - 24

#### **Grid Method**



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

### **Factorising Brackets**



5ab - 20a 5a(b - 4)

### **Solving Equations**

$$6x - 5 = 7$$

$$+5$$

$$6x = 12$$

$$\div 6$$

$$x = 2$$

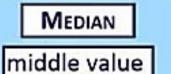


# **Maths: Quick Reference: Statistics**



# MEAN

sum of values number of values



#### RANGE

largest value - smallest value

#### Mean

7, 3, 4, 1, 7, 6

Sum of numbers divided by the total numbers

Mean = 
$$(7+3+4+1+7+6)/6$$

= 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

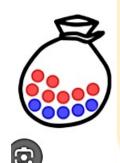
estimated mean =  $485 \div 25 = 19.4$  cm



# **Maths: Quick Reference: Probability**

# **Simple Probability**

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



#### Example:

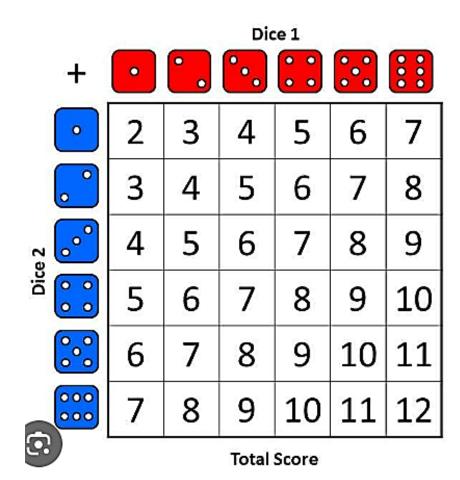
$$P(red) = \frac{7}{12}$$
 Number of red marbles

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:

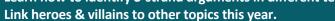
- > read easily, fluently and with good understanding
- > develop the habit of reading widely and often, for both pleasure and information
- > acquire a wide vocabulary, an understanding of grammar and knowledge of linguistic conventions for reading, writing and spoken language
- appreciate our rich 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.



### Academy Heroes and Villains: Rhetoric

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

- Learn about heroes and villains across literature and in real life. •
- Write a persuasive speech using the DAFOREST technique.
- Learn how to identify 3-strand arguments in different texts.





### Knowledge



#### Rhetoric

Rhetoric is the art of persuasive speaking or writing, using linguistic methods (see the **Key Skill** box on the next page for more information). It is the language used by politicians to win votes and by advertisements to sell us products. Learning how to recognise and use rhetoric will help us to become more effective communicators and to make informed life choices.

This term, you will be building up your skill in identifying and using rhetoric to enable you to create a 3-strand argument and write a persuasive speech that you will have the opportunity to perform to your class

#### Can you identify what persuasive devices are being used in these adverts?









#### **Heroes and Villains**

# 'The battle line between good and evil runs through the heart of everyone'

What makes a hero, a hero? What makes a villain bad? Is it possible to be both?

By exploring a range of literary texts (some of which you will study at greater depth in Year 10 and 11) and a range of real-life examples of heroism and villainy in society, we will think about how we define characters and learn how to use language in a more powerful and effective way.









### **Heroes and Villains: Rhetoric**

The aims of the sequence of learning are to ensure that all students learn the following assessment skills:

- Explore how heroes and villains are portrayed across texts
- Plan an effective line of argument





### Skills

#### **Key Skill- Persuasive Methods**

There are many tricks we can use to make our writing have a bigger impact on their audience or reader and make them agree with you. For some key persuasive methods, just remember 'DA FOREST':

- D- Direct address- Use pronouns F- Facts- Things that are true address your audience directly O- Opinion- Your own ideas and views (you/we)
- A- Anecdote- A short personal

- R- Rhetorical question- A question that doesn't need an answer
- E- Emotive language- Vocabulary that will encourage the reader to feel something **S-** Superlatives-
- T- Tripling- A list of three

# **Career Focus: Copywriter**



Copywriters write words for advertisements, websites, and other marketing materials. With an English qualification, you'll learn how to write persuasively, engagingly and clearly.

You'll also develop a strong understanding of language, grammar, and communication, which are important skills for crafting compelling messages that capture people's attention.

#### **Skills Practice**

Can you identify the persuasive methods in this paragraph?

Want to be persuasive? It is so simple to make small changes that will make you sound convincing and capable. There are lots of persuasive methods to choose from (I think metaphors are particularly effective) and you must not forget to pull at the heart strings of your audience with the best, most well-chosen vocabulary. So turn your confidence up to 100% and get persuading!

#### **Challenge Activities**

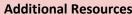
Task 1 – Create a job advert for a new superhero. You will need to describe the kind of skills and qualities your town (real or imaginary) requires its new hero to have in order to keep maintain a safe, just and fair society.

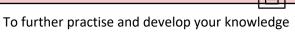
Task 2: - Down with superheroes! Can you write a newspaper article that will persuade your readers that superheroes are a danger to society? Remember to use methods from the **Key** Skill box.



#### **Topic Links**







This topic links to:

PHSE- Morals and ethics

RE- Exploring ideas about faith

https://www.bbc.co.uk/bitesize/guides/z84sk7h/revision/

https://www.grammarly.com/blog/how-to-write-aspeech/



# **Heroes and Villains - Rhetoric**



# Vocabulary

# You will be tested on five words per week.



Keyword	Definition
Non-fiction	Writing about real facts and events.
Autobiography	A text where someone writes about their own life.
Exile	To send someone away from their
Luddite	A mill worker who destroyed new machinery.
Manifesto	A written statement of the beliefs and policies of an organization.
Assassination	To murder someone, often for political reasons.
Court deposition	A written statement by a witness.
Infamous	Having a bad or evil reputation.
Gallows	A wooden structure used to hang criminals.
Acclaimed	Acknowledged as being excellent.
Enterprise	A project or an undertaking to carry out an ambitious plan.
Altruism	Concern for the well-being of other people.
Malevolent	Having a wish to do evil to other people.

Keyword	Definition
Perpetrator	Someone who carries out a harmful act.
Cryptography	Breaking secret codes.
Evasion	To escape capture.
Posthumous	After death.
Internment	To be held prisoner.
Venerated	Regarded with great respect.
Creed	A set of beliefs or principles.
Tyranny	Cruel and oppressive rules.
Synonymous	Having the same meaning.
Macho	To be masculine in an overly aggressive way.
Creed	A set of beliefs or principles.
Ruse	An action intended to trick someone.



# 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.



# Newsome Academy Year 9 Organisation — Breathing & Health

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

- Explain how gas exchange occurs in humans and plants
- Describe the impact exercise, asthma and smoking have on our health

Keyword	Definition
Organ	A group of tissues carrying out a particular function.
Organ System	Organs working together as a system.
Organism	Organ systems all working together to form a living organism.
Breathing system	Network of organs and tissues that help you breathe including airways, lungs and blood vessels.
Ventilation	The movement of air into and out of the lungs.
Gas exchange	The exchange of gases (oxygen and carbon dioxide) in the lungs or leaves.
Alveoli	Tiny sacs in the lungs where gas exchange occurs.
Asthma	A medical condition where the airways become irritated and swell up.
Bronchitis	Bronchiole tubes become inflamed and leads to excess mucus and coughing.
COPD	Chronic obstructive pulmonary disease. Damage caused to lungs that prevents gas exchange.
Carcinogen	A substance that can cause cancer.
Photosynthesis	A process that occurs in plants that turns carbon dioxide and water into glucose and oxygen.
Stomata	Tiny holes on the bottom of leaves that allow gases in and out. Can open and close.

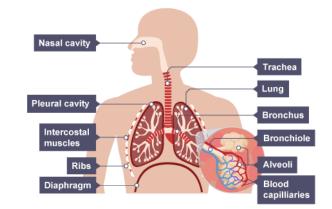
#### **Kev Concepts**

#### The Lungs and Gas Exchange

The human lungs provide an **exchange surface** adapted for:

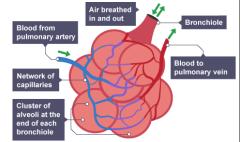
- absorbing **oxygen** needed for respiration into the blood from the air
- transferring carbon dioxide produced by respiration from the blood into the lungs then the air

The lungs are organs enclosed within the chest or **thorax**. Air needs to be breathed in to be brought into contact with the exchange surfaces within the lungs. This process is called ventilation.



The exchange of gases occurs between the alveoli and blood in the capillaries that supply the lungs.

Capillaries cover 70% of the outside of alveoli, providing a large surface area for gases to diffuse across.



#### **Exercise, Asthma and Smoking**

Regular exercise strengthens the intercostal muscles and diaphragm which make breathing more efficient.

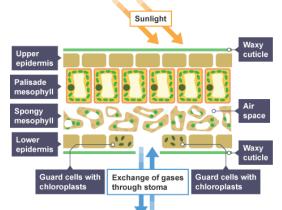
Asthma is a medical condition in which the lining of the airways from the mouth to the lungs become irritated and swell up. This reduces the air that can move in and out from the lungs. It is often treated by inhaling medication from an inhaler.

Smoking damages the tiny hairs that line the gas exchange system; these hairs are called ciliated cells. These move mucus up that has trapped dust and pathogens out of the airways. This can result in smokers developing a cough to remove this mucus. Smoking also irritates the bronchi which can lead to bronchitis. Smoking also breaks down the lining of the alveoli, which means less gas exchange can occur and can lead to chronic obstructive pulmonary disease (COPD). Cigarette smoke also contains carcinogen chemicals like tar, which can cause mouth, throat and lung cancer.

#### **Plants and Gas Exchange**

Plant leaves are adapted for **photosynthesis**, and the exchange of gases required for the process. The structure of the tissues is related to their functions in the plant.

When the plant is photosynthesising during the day. these features allow carbon dioxide to diffuse into the spongy mesophyll cells, and oxygen to diffuse out of them. To enter the leaf. gases diffuse through small pores called stomata.





# Newsome Academy Year 9 Organisation – Breathing & Health

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

- Explain how gas exchange occurs in humans and plants
- Describe the impact exercise, asthma and smoking have on our health

Retrieval Practice	기 ( 기
Questions	Answers
What is an organ?	A group of tissues that work together to perform a function.
What is an organ system?	A group of organs working together to perform a function.
Name the parts of the breathing system	Nasal cavity, Lungs, Trachea, Bronchus, Bronchioles, Alveoli, Diaphragm, Intercostal muscles, Rib cage
What controls ventilation?	The diaphragm and intercostal muscles.
How are the alveoli adapted for gas exchange?	Many alveoli = large surface area Thin walls (one cell thick) = short diffusion pathway Good blood supply (many capillaries) = a concentration gradient
What is diffusion?	The movement of substances from a high concentration to a low concentration. Down a concentration gradient.
How does exercise impact the breathing system?	This can strengthen the muscles of the breathing system (diaphragm and intercostal muscles) and make it more efficient.
How does smoking impact the breathing system?	Tobacco contains harmful substances that damage cilia (small hairs), the alveoli and bronchioles and can lead to serious diseases such as cancer and COPD.
How does asthma impact the breathing system?	Can cause constriction of muscles and swelling of airways making it difficult to breathe.
What gases are exchanged in leaves?	Carbon dioxide and oxygen.
Why do plants need to carry out gas exchange?	For photosynthesis: plants need carbon dioxide to make their food (glucose) and oxygen is a waste product they need to remove.
What controls the movement of gases in and out of leaves?	Stomata on the bottom of leaves open and close to allow gases to enter and leave the leaf.

#### Career Focus - Where could this take you?





l am a veterinary assistant. I work in a veterinary practice assisting in the care and treatment of animals. This can be a physically and emotionally demanding job where I have a variety of day-to-day tasks such as preparing animals for treatments, giving injections and medicines, taking x-rays, keeping the practice and equipment clean and assisting pet owners.

The skills I need for this job include knowledge of animal health, customer service, keeping calm in stressful situations and excellent communication skills.

#### **Challenge Activities**



- Make flashcards for the definitions and retrieval practice questions.
- Make a mind map for this topic. Remember to include keywords and the links between information.
- Research the possible treatments for lung cancer, the risks and benefits of the treatments and turn the information into a leaflet.
- Research how different lifestyle factors influence the breathing system.
- Find out more about veterinary assistants and what they do. What qualifications would you need for this career? What current research is being done? What is the salary?
- Construct a fact file about a famous historical scientist that helped us to understand more about plants and gas exchange.

#### **Topic Links**



#### **Additional Resources**



This topic links to:

- Cells
- Respiration
- Photosynthesis
- Transport systems

We will also be practising how to

- Calculate lung capacity
- Write an evaluation to compare treatments

Educake - https://www.educake.co.uk/ BBC Bitesize https://www.bbc.co.uk/bitesize/topics/zvrrd2p/articles/

To further practise and develop your knowledge see:

zbhca7h#zvp4r2p4

https://www.bbc.co.uk/bitesize/guides/z9kx8mn/revisi on/2

YouTube Cognito -

https://www.youtube.com/watch?v=B44n2SMLv-s



Atmospheric

pressure

Altitude

Earth.

# Year 9 Pressure

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

- Calculate pressure
- · Explain why pressure changes at different heights (atmosphere) and depths (ocean)

Keyword	Definition
Pressure	How much force is exerted on an object.
Force	A push or pull that acts on an object due to interaction with another object.
Area	A measurement of a surface.
Newton	A unit of force. How forces are measured. Symbol = N
Pascal	A unit of pressure. How pressure is measured. Symbol = Pa
Fluid	Both liquids and gases are fluids. Their particles are free to move so they can flow or be poured.
Particles	Tiny things that all matter are made from.
Collision	When one object runs into another.
Volume	The amount of space that a 3D object takes up.
Liquid pressure	The force exerted on an object when it is in a liquid.
Gas pressure	The force exerted on the sides of a container by particles of gas.
Atmosphere	The layer of gases that surrounds the Earth. Made up mainly of nitrogen 78% and oxygen 21%.

The weight of the atmosphere pushing down on the

How high something is compared to sea level.

### **Key Concepts**

#### Pressure in solids

Pressure is a measure of how concentrated (or spread out) a force is. The amount of pressure exerted on an object depends on the force applied and the surface area it is spread over.

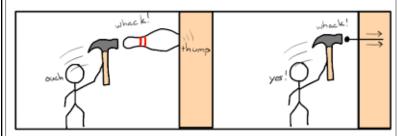
We can calculate the amount of pressure on an object using a simple formula:

#### Pressure = force ÷ area

A rock resting on a soft surface, like sand or mud, will create an indentation. The depth of this indentation depends on the pressure exerted on the ground. The larger the pressure the deeper the indentation it will create.

The greater the weight of the rock, the higher the pressure it exerts on the ground.

The smaller the surface area resting on the ground, the higher the pressure it exerts on the ground.



Pressure can be measured in many different units, but scientists usually use units called pascals (Pa).

Other units commonly used to measure pressure include newtons per square centimetre (N/cm²),bars and pounds per square inch (P.S.I.)

One pascal is the pressure exerted when a force of one newton is spread over an area of 1 square metre, so one pascal (1 Pa) is the same as **one newton per square metre** (1 N/m²).

Understanding the connection between force, pressure and area can help scientists and engineers design and make more effective machines and devices.

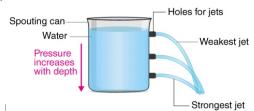
#### **Pressure in Liquids**

Just like gases, liquids exert pressure on objects due to collisions between the liquid particles and the object.

The amount of pressure exerted depends on both the density of the liquid and the depth of the liquid.

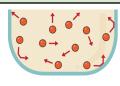
The deeper you go:

- the greater the weight of liquid above the object
- the greater the liquid pressure.



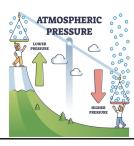
#### **Pressure in Gases**

The particles in a gas move quickly in random directions. Therefore, the particles regularly bump into each other and the walls of their container. These collisions exert pressure on the walls of the container and any objects surrounded by the gas.



If the temperature of a gas is increased, the particles move faster, so they hit the walls of the container more often. This causes the pressure to increase.

Decreasing the volume of the container also increases the pressure. This is because the rate at which the particles collide with the surfaces increases because there are more particles in a smaller space.



Atmospheric pressure decreases as the height of a surface above ground level increases.

This is because, as the altitude increases:

- the number of air molecules decreases
- the weight of the air decreases
- there is less air above a surface



# Year 9 Pressure

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

Calculate pressure

316

· Explain why pressure changes at different heights (atmosphere) and depths (ocean)

Retrieval Practice	المراجع
Questions	Answers
What is pressure?	The amount of force exerted on an object.
How is pressure calculated?	Pressure = Force ÷ Area
What are the units for pressure?	Pascals (Pa) which is the same as 1 Newton per square metre (N/m²)
Which objects exert the most pressure?	Objects with the greatest weight being exerted on the smallest area.
How can we decrease pressure?	Either by decreasing the weight of the object or increasing the surface area it is exerting its force on.
What causes pressure in liquids?	The pressure caused by liquid particles colliding with an object.
How does pressure change with depth in a liquid?	The pressure increases as the depth of a liquid increases.
Why does pressure increase as you increase the depth of a liquid?	The weight of the liquid above the object increases as you increase the depth.
What causes pressure in gases?	The pressure is caused by gas particles colliding with the sides of a container.
What increases pressure in gases?	Pressure increases when gas particles collide more often which can occur when temperature increases or volume decreases.
What is atmospheric pressure?	The pressure caused by the weight of the atmosphere pushing down on the Earth.
How does pressure change with altitude?	As altitude increases pressure decreases.
Why does pressure change with increasing altitude?	The number of air particles decreases and the weight of the atmosphere decreases.

#### Career Focus - Where could this take you?





I am a scuba diving instructor. My job is an awesome way for me to share my love of diving with other people. I can work almost anywhere – my local PADI dive shop, a resort on a far-flung island or even on a superyacht!

To become an instructor, you'll need to have a number of scubadiving qualifications. These include the PADI Open Water Diver, PADI Advanced Open Water Diver, PADI Rescue Diver, PADI Divemaster and emergency first response certifications. You'll also need to successfully log 100 open water dives, complete an instructor development course and complete an instructor evaluation.

#### **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 effects of pressure on the human body. How do we manage when people need to go to high altitudes or deep under the ocean?
- 4. Research how different lifestyle factors influence the breathing system.
- 5. Find out more about scuba diving instructors and what they do. What qualifications would you need for this career? What is the salary?
- 6. Construct a fact file about a famous historical scientist that helped us to understand more about pressure.

#### **Topic Links**



#### **Additional Resources**



This topic links to:

- Forces
- Chemistry and the Atmosphere
- Blood pressure and the heart

We will also be practising how to

- Calculate pressure
- Research the ways pressure is used in machines

To further practise and develop your knowledge see: Educake - https://www.educake.co.uk/

BBC Bitesize -

https://www.bbc.co.uk/bitesize/topics/z4brd2p/articles/zydpf82

YouTube Cognito -

 $\frac{https://www.youtube.com/watch?v=0P3b8bWqAkc}{https://www.youtube.com/watch?v=s8C2RktZtbM}$ 



Reduce

Reuse

Recycle

# **Year 9 Earth Resources**

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

- Describe how the Earth has limited resources and the importance of recycling
- Explain how the reactivity series is used to displace metals from their ores

#### **Definition Keyword** Finite Resources which will run out soon. There is a limited supply. Renewable Resources which will not run out in the foreseeable future. Resource A resource is a physical material that humans need and value such as land, air, and water. Deposits of natural deposits that are known to exist. Reserves Sustainability is the idea that humans must interact with Sustainability the environment in a way that ensures there will be enough resources left for future generations. Substances that have high melting/boiling points, Metals conduct electricity/heat, are shiny and are malleable. **Chemical Bonds** Forces holding atoms together in a molecule. Require energy to break. How well a metal can react will affect its order in the Reactivity Series reactivity series. A more reactive element can displace a less reactive Displacement element out of its compound during a chemical reaction. Electrolysis Electrolysis is a process which uses electrical energy to

break a compound and collect pure metals.

Using items as much as you can before replacing them.

Converting waste materials that would be thrown away

Producing less waste.

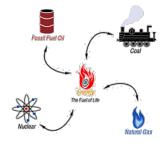
into new materials and/or objects.

# Key Concepts

#### **Finite and Renewable Resources**

Many of the Earth's resources are finite. Chemists have a role in estimating the number of reserves remaining and ensuring that the use of resources is sustainable.





#### **Extracting metals**

Metals mostly occur as compounds in rocks and minerals and must be extracted before they can be used.

The method used to extract the pure metal depends on its position in the reactivity series.

The most **unreactive** metals, silver and gold, are found as **elements** in the rocks. They are not **chemically bonded** to other elements in compounds.

Most of the metals found in rocks are combined with other elements in **compounds**. These compounds are called **minerals**. Metals below carbon can be extracted using a displacement reaction but those above carbon must be extracted using electrolysis.

#### Reduce Reuse and Recycle



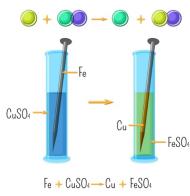
#### Displacement

Displacement reactions are chemical reactions which involve a metal and a compound containing a different metal.

These compounds containing metals and non-metals are called **salts**. For example, iron (a metal) reacts with copper sulfate (a salt containing copper).

In a displacement reaction, a *less* reactive metal is displaced from its compound by a *more* reactive metal.

When a displacement reaction happens, the temperature rises.



Increasing

Carbon

Hydrogen



# **Year 9 Earth Resources**

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

- Describe how the Earth has limited resources and the importance of recycling
- Explain how the reactivity series is used to displace metals from their ores

#### Career Focus - Where could this take you?



I am a dental technician. I work with a variety of materials such as polymers and ceramics to help improve or replace lost teeth. I work with the information that dentists provide me to make things like dentures, veneers, bridges, crowns and braces. I need a good understanding of the science of dental materials to ensure the correct material is chosen for the particular job it needs to do.

I work mainly in the laboratory with a range of specialised equipment, so my day is very varied and never boring.

My qualifications include a BTEC national diploma in dental technology.

#### **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 career dental technician and find out more about what they do. How much is their salary and what routes are there to become one?
- 4. Produce a fact file on renewable resources. What technology is being developed now to help with the energy crisis?
- Construct a fact file about a famous historical scientist that helped us to understand more about extracting metals.

#### **Topic Links**



#### **Additional Resources**



This topic links to:

- Energy
- Chemical Reactions
- Interdependence

We will also be practising how to

- Evaluate data
- Design a leaflet to promote the 3 R's

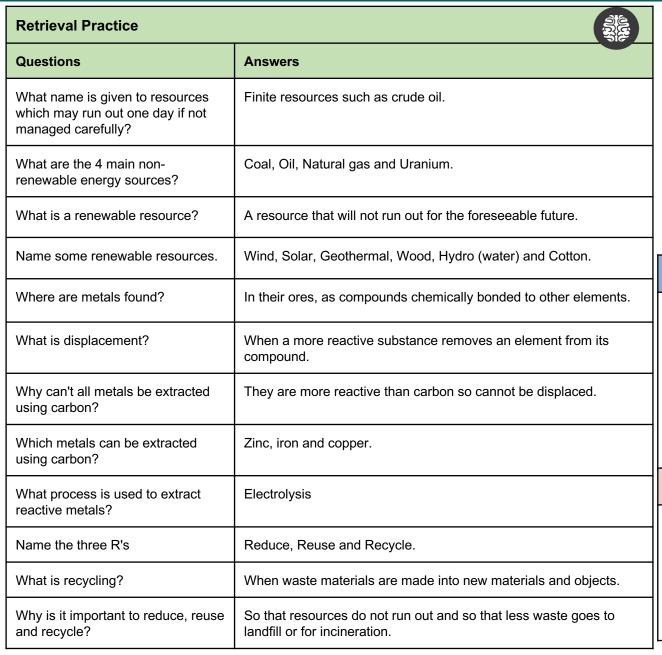
Educake - https://www.educake.co.uk/

BBC Bitesize - https://www.bbc.co.uk/bitesize/guides/zgqhcj6/revision/

To further practise and develop your knowledge see:

2 YouTube Cognito -

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





# 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 9 River Processes & Features**

Describe how the shape of river valleys changes as rivers flow downstream
---

- Describe different fluvial processes of erosion, transport and deposition
- •Recognise and describe the characteristics and formation of landforms resulting from erosion interlocking sours, waterfalls and gorges
- Recognise describe the characteristics and formation of landforms resulting from erosion and deposition meanders and oxbow lakes
- Recognise and describe the characteristics and formation of landforms resulting from deposition – levées and flood plains

Keyword	Definition
Erosion	The breakdown and removal of material
Transportation	The processes which move river material down the river.
Bedload	The material carried by a river
Deposition	The dropping of carried material when a river loses energy.
Meander	A bend in a river. Normally found in the middle course.
Waterfall	A step in the long profile of a river. Usually formed when a river crosses over a hard band of rock.
Discharge	The volume of water passing a given point on the river course.
River Channel	The route the water flows through.
Thalweg	The line of fastest flow in a river
Mouth	The end of a river where a rivers meets a sea or lake
Source	Where a river begins
Tributary	stream that feeds into a larger stream, river or other body of water.
Drainage Basin	An area of land drained by a river and its tributaries
Confluence	Where 2 or more rivers/tributaries meet
Watershed	The boundary of a river basin

#### **Key Concepts**

**Erosional Processes** Hydraulic Action – as the water is forced into the sides of the river channel, air is compressed in the small cracks in the rock. Tiny fragments of rock get broken away as the process is repeated. Abrasion – the river picks up eroded rocks, pebbles and sand. The material then rubs against the channel, wearing it away. Attrition - eroded materials in the river bump into each other and eventually wear each other down. Over time, the materials become smaller and more rounded. **Solution** – water reacts with minerals in rocks and the structure of the rock is changed.

# Transportation processes

<u>Traction</u> – material carried by the river is rolled along the riverbed.

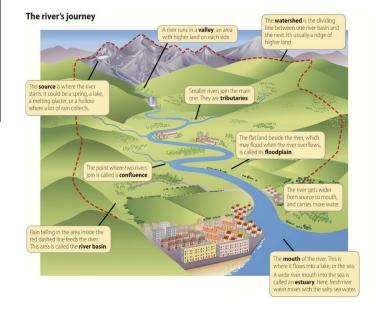
<u>Saltation</u> – material carried by the river is bounced along the riverbed.

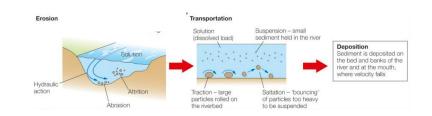
<u>Suspension</u> – material is carried by the river water. <u>Solution</u> – soluble material is dissolved and carried by the river water.

#### Deposition

River's deposit eroded material as they lose energy (velocity) this happens when:

- The river becomes shallower.
- The discharge (volume of water) is reduced. The amount of transported material increases;
- The river reaches the mouth.







# **Year 9 River Physical Processes & Features**

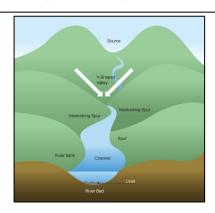
- Describe how the shape of river valleys changes as rivers flow downstream
- Describe different fluvial processes of erosion, transport and deposition
- Recognise and describe the characteristics and formation of landforms resulting from erosion interlocking spurs, waterfalls and gorges
- Recognise describe the characteristics and formation of landforms resulting from erosion and deposition meanders and oxbow lakes
- •Recognise and describe the characteristics and formation of landforms resulting from deposition levées and flood plains

#### **Key Concepts**



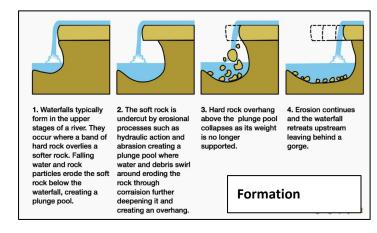
#### Interlocking spurs

Form in the upper course of a river where vertical erosion creates steep-sided V-shaped valleys. The river winds and bends to avoid areas of hard rock creating interlocking spurs of land.



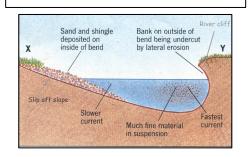
#### Waterfalls

Waterfalls are found in the upper course of a river and are created when the riverbed is comprised of alternating hard and soft rock.



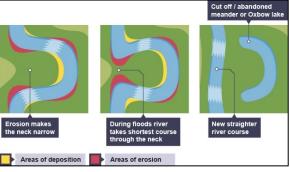
#### **Meanders**

Form in the middle and lower course where lateral erosion causes the river to widen. The outside of a river bend erodes more quickly as the water is forced to the outside of the bend as it turns.



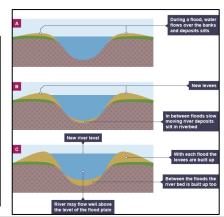
#### Ox-bow lakes

Form where meanders have become so enlarged that the river breaks through the neck of the meander and cuts off the bend.



#### <u>Levees</u>

Form in the lower course along the riverbanks due to repeated flooding. As water overflows the main channel, it loses energy, depositing material on the banks. This creates natural embankments.





# **Year 9 River Processes & Features**

#### **Retrieval Practice** Questions What are four erosional processes active in a Hydraulic Action, Abraison, Attrition river? and Solution What are four transportational processes in a Traction, Saltation, Suspension and river. Solution What landforms are found in the upper course Waterfalls and gorges of a river? What landforms are found in the middle Meanders and oxbow lakes course of a river? What landforms are found in the lower course. Levees and estuaries of the river? Name a waterfall on the River Tees **High Force** The material carried in the river What is the load of a river? What is deposition? Where a river drops (deposits) it's load What is the area of land drained by a river A drainage basin called?

- Describe how the shape of river valleys changes as rivers flow downstream
- Describe different fluvial processes of erosion, transport and deposition
- Recognise and describe the characteristics and formation of landforms resulting from erosion interlocking sours, waterfalls and gorges
- Recognise describe the characteristics and formation of landforms resulting from erosion and deposition –meanders and oxbow lakes
- Recognise and describe the characteristics and formation of landforms resulting from deposition – levées and flood plains

#### Career Focus - Where could this take you?



Geomorphologists study how the earth's surface is formed and changed by rivers, mountains, oceans, air and ice. This topic will help you understand how Rivers shape the surface of the planet and how processes create those shapes. The skills from this topic will help in any part of geomorphology and aren't limited to focusing on rivers.



#### **Challenge Activities**



- 1. Make a crossword using the key terms from this sheet. Don't forget to write detailed clues
- 2. Create a collage using images, words and photographs to show the features of a river
- 3. Create a full colour storyboard and script to depict the key information in the formation of at least 2 river features.

#### **Topic Links**



This topic links to other subjects such as: RE and science

We will also be practising how to:

- Analyse data from maps
- Develop locational knowledge and physical geography skills

#### **Additional Resources**



**BBC Bitesize:** 



Oak National Academy:



#### **Key Concepts:**



# **World – Countries and Oceans**







# **Year 9: Women in the 20th Century**

The aims of the sequence of learning are to ensure that all students: • Explore what life was like for women in 20th Century Britain.

Evaluate the impact of the Suffragette and Suffragists Movement in 20th Century Britain.

Explain the role and actions of key individuals and the impact they had on Women's' Suffrage.

Analyse interpretations to make a judgement on the most important reason which led to women receiving the vote in 1918.

# Keyword

Suffrage

Suffragette

Suffragist

NUWSS

**WSPU** 

Petition

**Pacifist** 

Militant

**Hunger Strike** 

**Force Feeding** 

Manifesto

Enfranchisement

## **Definition**

- **Key Concepts** The right to vote in political elections.
- A campaigner for women's suffrage willing to undertake militant action or to break the law.
- A campaigner for women's suffrage who believes in constitutional methods of campaigning.
- The National Union of Women's Suffrage Societies, formed in 1897 and brought together many smaller suffrage organisations. The NUWSS's method was nonconfrontational and constitutional.

progress of NUWSS, 'Deeds not Words' was their slogan.

A formal written request or application, especially one

- Women's Social and Political Union was formed when Emmeline Pankhurst found disillusionment with the
  - signed by many people, to a particular individual or group, for example, a government. An individual who disagrees with war on principle.
  - Aggressive, violent behaviour in pursuit of a political cause, favouring extreme or confrontational campaign methods.
- The act of deliberately setting fire to property with a view to Arson causing extensive damage.
- A peaceful, legal way of campaigning, often using Constitutional

methods of a campaign group.

- recognised 'political' methods such as petitions.
  - Some imprisoned suffragettes went on hunger strikes to

further raise awareness for their cause.

force fed. Being force fed involved a rubber tube being inserted into the throat or nose and liquidised food being poured in.

To be granted the vote or the state of having the vote.

Imprisoned suffragettes on hunger strike were sometimes

A public declaration or proclamation, stating the aims and

# Expectations of Women from the 17th to 19th Century:

Emmeline

Led the WSPU

from October

militant action

such as window

smashing, arson

strikes. Arrested

numerous times,

went on hunger

strikes and was

force fed.

Died in 1928.

and hunger

1903. Took more

Pankhurst (WSPU):

## At the start of the Twentieth Century, women had a very stereotypical role in

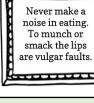
British society. If married, they stayed at home to look after the children while their husband worked and brought in a weekly wage. If single, they did work which usually involved some form of service such as working as a waitress, cooking etc. Many young women were simply expected to get married and have children. The term "spinster", though not a term of outright abuse, was still seen as having some form of stigma attached to it... That you were not good enough to get a husband! For decades women's progress in British society was

haunted by the words of Queen Victoria: "Let women be what God intended, a helpmate for man, but with totally different duties and vocations."



To be truly polite,





-----

# **NUWSS** formed. Millicent Fawcett is leader

- 1909
- 1913
- 1913
- 1914

- WSPU is formed by Emmeline Pankhurst and daughters. Militant campaign begins – Christabel Pankhurst and Annie Kenney
- arrested. Mass rally in London – 300,000 to 500,000 activists attend. 1908
  - Window smashing using stones with written pleas on them.
  - Hunger strike and force feeding starts. Marian Wallace Dunlop becomes the first hunger striker.
  - hunger strikers are temporarily released then rearrested to prevent them dying in police custody.
  - Emily Wilding Davison attempts to pin a Suffragette scarf onto the King's Horse at the Derby. She is struck by the horse and dies four days later.

Militant bomb and arson campaigns and increasing arrests which

results in the passing of the 'Cat and Mouse Act' under which

- World War One starts. Suffragette leaders urge women to join the war effort. **NUWSS** continues to campaign for recognition for their work.
- The Representation of the People Act is passed, allowing 1918 men over 21 and women over 30 to vote.

**Key People:** 







Davison (WSPU):



Leading

militancy was

counter-

productive.

#### Christabel Pankhurst (WSPU): Became a speaker for the

lawyer but could

she was a woman.

Arrested with her

mother and fled

England in 1912

for fear of being

arrested again.

not practice as

Joined WSPU in WSPU in 1905. She trained as a

teacher and became a suffragette full time. Frequently arrested for a number of crimes including setting fire to a post box. By 1911, became increasingly militant.

suffragist and 1906. 3 years led NUWSS from later, left job as a 1897-1919. Played a key role in getting women the vote. Dedicated to using constitutional means, and argued that



# Academy Year 9: Women in the 20th Century

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

- Explore what life was like for women in 20th Century Britain. • Evaluate the impact of the Suffragette and Suffragists Movement in 20<sup>th</sup> Century Britain.
- Explain the role and actions of key individuals and the impact they had on Women's' Suffrage.
- Analyse interpretations to make a judgement on the most important reason which led to women receiving the vote in 1918.

#### **Retrieval Practice**

Questions

its leader?



- 1		
	What 'stereotypical' role did women have at	If married, they stayed at home to look after the children while their
	the start of the 20th Century?	husband worked and brought in a weekly wage

**Answers** 

When was the NUWSS formed and who was	The NUWSS was formed in 1897 and Millicent Fawcett was its leader until
its leader?	1010

When was the WSPU formed and who by?	The WSPU was formed in 1903 by Emmeline Pankhurst and her daughters.

What kind of militant protests did the WSPU	Campaigns included mass rallies, smashing windows throwing stones with
carry out?	nleas on and arson. All of which resulted in many arrests

What kind of protests did the NUWSS carry	They used more constitutional campaigns like leaflets and petitions as they
out?	believed militant campaigns were counter-productive to the cause.

What was a 'hunger strike' and what would	Hunger strikes were when prisoners would refuse to eat so that they could
happen to the women who carried them	bring further attention to their cause. Prison officers would use force feeding
out?	(through a tube) to ensure the prisoners stayed alive.

Why is Emily Wilding Davison so famous in	Emily Davison ran out in front of the King's horse on Derby day to pin a
the Suffragette Movement?	Suffragette scarf to it. She was badly injured and died shortly after.

What role did women play through World	Women worked in manufacturing and agricultural roles, i.e. in munitions
War One?	factories and farming land. They also provided support on the front lines as
	nurses and ambulance drivers etc.

Name one way World War One helped	Many men were impressed by the contribution made by women and were
women get the vote in Britain:	forced to change their views, this included the views of Politicians.

When was the Representation of the People Act passed and what did it do?	This was passed in 1918 and it allowed men over 21 and women over 30 to vote.

#### Career Focus - Where could this take you?





and support anyone who is vulnerable. I need to carry out security checks and searches of prisoners and cells, to ensure they are following the rules and that they are safe. Sometimes I have to use authorised physical control and restraint. I require many skills to do my job, including knowledge of public safety and security, the ability to accept criticism and work well under pressure. I need to have patience and be thorough, paying attention to detail, as well as excellent verbal communication skills.

#### **Challenge Activities**



- 1. Write a newspaper article about one of the key events of the Suffragette Movement. This should include who was involved, what happened and what action was taken against them by the Police. This should be your own work not an actual article from the internet.
- 2. Write a script to use in a movie or play about the Suffragette Movement and their fight for women to have the vote. Some movies have already been produced on this which use historical fiction (incorporating some historical facts with a fictional storyline), so that's what you should aim to do.
- Imagine its 1917... Write a petition to Parliament detailing why it's important that women have the vote. Include the importance of women in society, their role in World War One and why they should also have the right to make decisions in the country they live in.

#### **Topic Links**



#### **Additional Resources**



This topic links to other humanities topics such as:

- World War One
- The end of World War Two
- Britain's Homefront





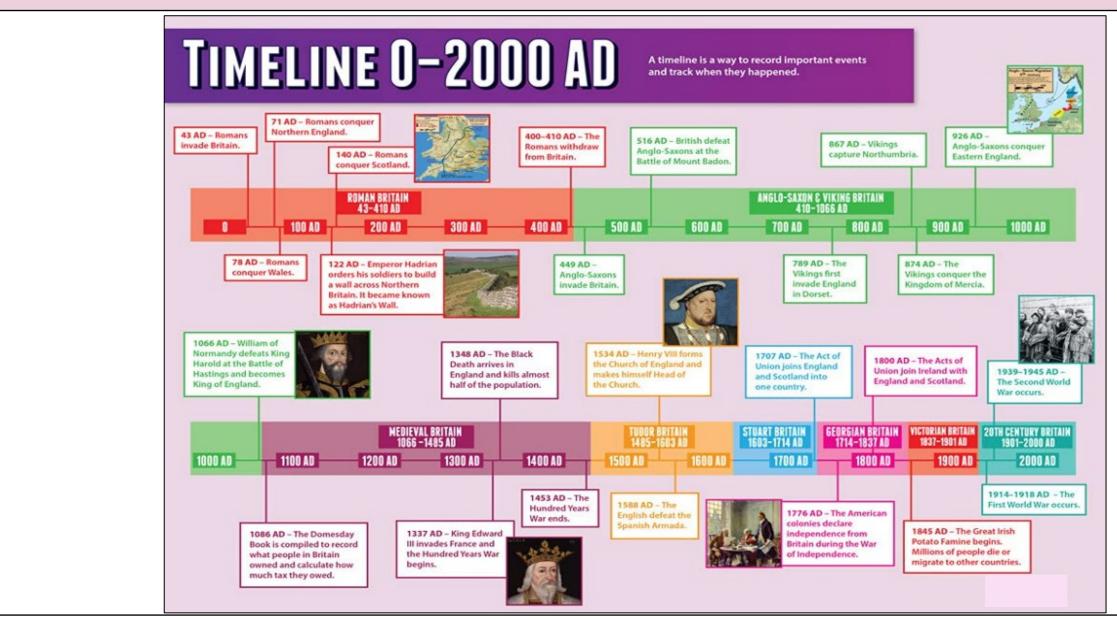
To further practise and develop your knowledge see:





#### **Key Concepts**







### **Y9 Ethics & Humanism**

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

- **Enquire into Humanist beliefs**
- Evaluate beliefs about the origins of the universe
- Explain & interpret Humanist understanding that human beings evolved alongside animals
- Enquire into the Humanist belief about death as tend of personal experience & the absence of anything immaterial, such as the soul

ncepts

At the heart of humanism is

#### How do you know what is true?

the belief that reason, and evidence are very important. They therefore believe that science should be used to know what is true and what is false. They do not believe in God as Humanists are atheist, believing there is no scientific evidence or proof that God exists. All truth is discovered by looking at the scientific evidence. Humanism is a world-view that only uses science, evidence, reason and empathy to make sense of the world and to inform how they should act and care for others.

# Humanism is the philosophy that you should be a good guest at the dinner table of life.

#### How do you tell right from wrong?

Evaluate the belief that humans are material & mortal

Explore what is meant by Atheism & Agnosticism

Investigate the concept of miracles

Humanists do not believe in God or other supernatural beings and so do not believe that our knowledge of right and wrong comes from religious rules such as those found in scriptures like the Bible.

They believe in the GOLDEN RULE which is to treat others as you yourself want to be treated. They think that you should always consider your actions will affect other people and you should think about how you would feel in someone else's situation. Imagining how others feel is called empathy.

Humanists believe that we should use our human nature to work out how to live and that we should use reason and empathy when deciding what is right and wrong. Humanists therefore try to live a full and a happy life and help others do the same and believe we should use our own human nature as a guide to a good living. Humanists do not have an absolute morality as they do not have a strict set of rules (like the 10 commandments) that they must always follow.

#### What are Ethics?

Ethics are the rules that direct your conduct and moral judgment.

- Doing Right and Wrong: Ethics is about figuring out what's the right thing to do and what's the wrong thing to do in different situations.
- Being Fair: It's about treating people fairly and being kind, even when no one is watching.
- Thinking First: Ethics reminds us to think before we act and consider how our actions might affect others.
- Making Good Choices: It helps us make good choices that make us proud and help us get along with others.

# Agnostic **Democratic**

Secular

Reason

Theist

Philosophy

**Keyword** 

Humanist

Origin

**Atheist** 

Having or showing compassion or benevolence. Humane Being kind, understanding and civilised.

sure whether God exists or not.

A follower of the principles of Humanism.

Someone who doesn't believe in God.

The point or place where something begins or

Someone who believes you can never know for

In some circumstances unimportant, something

**Immaterial** Relating to or supporting democracy or its principles.

which is irrelevant.

**Definition** 

starts.

- Not connected with religious or spiritual matters.
- A theory or attitude that acts as a guiding principle for behaviour. The power of the mind to think, understand and
- form judgments logically. Someone who believes that there is a creator,
- To understand and share the feelings of others. **Empathy**
- Ideas about life and the world. Worldview

God.



## **Y9 Ethics & Humanism**

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

Evaluate beliefs about the origins of the universe

**Enquire into Humanist beliefs** 

- Explain & interpret Humanist understanding that human beings evolved alongside animals · Enquire into the Humanist belief about death as tend of personal experience & the absence of anything immaterial, such as the soul
- Investigate the concept of miracles
- Explore what is meant by Atheism & Agnosticism

Evaluate the belief that humans are material & mortal

**Key Concepts** 



#### **Overview**

- Humanism puts human beings and their interests at the centre of things.
- Rather than focusing on religion, divine or supernatural matters, humanists believe that fulfilment is achieved through human inventiveness and collective effort.
- Humanism Is a broad philosophy and there are many different types of humanist. Most do not believe in a God or deity.
- Humanists believe that people should think freely for themselves, be rational and work together in order to achieve human happiness.

#### The British Humanist Association

The BHA is recognised as the voice for Humanism in the UK.

The BHA emphasises that Humanism is a positive life-stance' rather than a negative attitude to religion.' The BHA realises that they do not speak for all humanists, as there are many different types.

#### The Happy Human

The BHA held a competition in the 1960s, to decide on a logo for Humanism.

The winning entry was the 'Happy Human'

- It shows a human figure reaching to achieve its full potential.
- It symbolises the idea that we only have one life and that we should try to make it happy for all.



#### **Humanist beliefs**

It is important to remember that there are many kinds of humanists, who all believe in different ideas. Below are some of the common beliefs.

- Humanism is not a religion and most humanists do not believe in God or life after death.
- Humanists believe in a 'Golden rule', which is 'treat other people as you would like them to trat you.' Humanism is all about doing good and making people happy:
- Humanism is all about finding and giving love, making others happy and making the best of the one life that we have together here on earth.
- Humanists are rational. They believe that science and human though are powerful tools for bettering life and creating a happy existence for all. They believe that science provides the best explanation for our existence for all. They believe that science provides the best explanation for our existence – they do not believe that God created the EARTH.
- Humanists are ethical- they value all human beings, treating everyone equally. They believe in 'common humanity'- even though we have difference we are all human

### **Non-Existence of Gods**

Most Humanists are atheists. They rely on science and have found no evidence that a God exists or ever existed.

#### No Purpose to the Universe They

believe that the universe was created by chance, so there is no purpose to the universe.



#### **Meaning of Life**

Humanists give their lives meaning by living good lives. They make good choices and take an interest in the world around them.

Main Beliefs of Humanism

#### Reason

Humanists believe decisions should not be made on emotions, but on reason, rationality and logic.

#### **Science**

Scientific investigations gather evidence to find the truth. Humanists also use evidence to see what is true.

#### **Ethical Decisions**

weighed up for their positive and negative consequences for all. Humanists believe there are no perfect decisions.

To live good lives, decisions must be



**Retrieval Practice** 

What does the BHA

What is the 'Happy

believe in God?

between ethics

and Humanism?

Humanism?

Why do Humanists not

Define the word 'ethics'.

What is the difference

What is the 'Golden Rule' in

What do Humanists believe

emphasise?

Human'?

# **Y9 Ethics & Humanism**

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

- Evaluate beliefs about the origins of the universe
- Explain & interpret Humanist understanding that human beings evolved alongside animals
- Evaluate the belief that humans are material & mortal
- Explore what is meant by Atheism & Agnosticism
- Investigate the concept of miracles

iterial, such as the soul

e into the Humanist belief abou	it death as tend of personal experience & the absence of anything imma

**Enquire into Humanist beliefs** 

Enquire

#### Career Focus - Where could this take you?





I am a Lawyer. Having the ability to understanding different religions and faiths, makes me realise why people do what they do. Understanding the choices and decisions of others makes me a better lawyer.

#### Questions Answers A rational outlook or system of thought, attaching prime importance to What is Humanism?

human rather than divine or supernatural matters. The BHA emphasise that Humanism is a 'positive life-stance'

Happy Human is the logo which is used to represent Humanism. It shows a human figure reaching to achieve its full potential.

Humanists believe that science can back everything up.

purpose to the universe.

Ethics are moral principles that govern a person's behaviour. It is a set of values that is always present in everyday life.

do. 'Treat other people as you'd want to be treated in their situation.'

Ethics focuses on deciding what's right or wrong and guides our behavior using moral principles. Humanism is a philosophy valuing human worth, reason, and kindness, without relying on religion. While ethics is about moral choices, humanism is about valuing humans and their potential.

# **Challenge Activities**

This topic links to:



- Design a poster on Humanism.
- Create a leaflet, explain to someone what Humanism is.
- Research the 'Human Light' and write down notes on your find.
- How can you live an ethical life if you're not religious? Explain your answer in detail.
- Design your own Humanist logo and write a brief explanation of why you want it to be the next H umanist design.
- 'Morals are always with us, it's what we choose to do with it, that's what counts.' Explain this s tatement in detail.

#### The Golden Rule is applied within Humanism as this helps them decide what to **Topic Links**

#### **Additional Resources**



Humanists believe that the universe was created by chance, so there is no

- Ethical dilemmas across other religions.
- The golden rule of Islam, Christianity and Judaism.
- Humanism within the contemporary world.



To further practise and develop your knowledge see:



Universe? Name some advantages of living an ethical life.

about the origin of the

Some advantages include, but are not limited to, helps translate your values into appropriate and effective behaviours in your day-to-day life and determine how you talk to someone.



# Newsome Academy Religious Studies

#### **Key Concepts**



#### SIX WORLD RELIGIONS (spellings vary)

Religion name	Follower	SYMBOL	NAME OF GOD/GODS	COUNTRY OF ORIGIN	FOUNDER /MESSENGER	HOLY BOOK/S	PLACE OF WORSHIP	MAIN FESTIVALS	Denominations /schools/type/	Followers in the UK (approx.)	Followers in the world (approx.)
BUDDHISM	Buddhist	Dharmachakra	none	India (Today in Nepal)	Siddhartha Gotama (The Buddha)	Tripitaka	Temple Shrine room Vihara	Wesak Dharma day	Theravada Mahayana Zen Triratna Pure Land	98,000	376 million
HINDUISM	Hindu	Om/Aum	Brahman (Shiva Vishnu Brahma)	Indus Valley	none	Vedas Bhagavad Gita Mahabharata	Mandir Temple	Holi Diwali		272,000	1 billion
CHRISTIANITY	Christian	Cross	God	Palestine Israel	Jesus of Nazareth	Bible	Church Cathedral	Easter Christmas	Catholic Eastern Orthodox Church of England Baptist Quaker	30 million	2.2 billion
JUDAISM	Jew	Star of David	G_d	Israel	Abraham	Torah Tenakh	Synagogue	Rosh Hashanah Pesach Yom Kippur	Hasidic Orthodox Reform Liberal	214,000	14 million
SIKHISM	Sikh	The Khanda	God Waheguru	Punjab, India	Guru Nanak The ten Gurus	Guru Granth Sahib	Gurdwara	Vaisakhi Diwali	Sahajdhari Amritdhari	239,000	23 million
ISLAM	Muslim	Five pointed star & crescent moon	Allah (God)	Saudi Arabia	Muhammad (pbuh)	Quran	Mosque	Eid-ul-Fitr Eid-ul- Adha	Sunni Shi'a Sufi	1,278,000	1.6 billion

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)

<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b></b>
2000 BC	1500BC	560 BC	0	30 AD	610 AD	1500 AD
Hinduism	Judaism	Buddhism		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.



Normalement pour mon

Il est toujours rigolo

Cependant, cette année

Je vais au restaurant avec mon

et nous jouons au foot ensemble

anniversaire...

depuis 5 ans

génial.

samedi

ami

- The aims of the sequence of learning are to ensure that all students can: · Describe oneself and family in detail.
- Use adjectives accurately to describe people and relationships.

Year 9 -	Mon	monde	à moi	

<b>\$</b>	Everyone Exceptional Everyday	ICai	9 -	IVIOII	mona	•
_						

Normally for my birthday...

He is always funny

together for 5 years

However, this year

I go to a restaurant with my friend

and we have been playing football

	Koy Concents	
Enclyone Enceptional Enclyony	Describe a celebration in the past.	

• Describe a celebration in the past.								
Key structures	Translation	Key Concepts						
Samedi dernier	Last Saturday	Qu'est-ce que tu aimes faire le weekend?  What do you like to do at the weekend?			Ton ami(e) est comment? What's your friend like? Mon ami(e) s'appelle My friend is called			
J'ai fêté le jour de mes treize ans	I celebrated my 13th birthday	Quand je suis seul(e)	lire des BD faire des promenades	reading comics going for walks swimming	Avoir - to have	les yeux	bleus blue gris grey verts green	
A1 1 .		000(0)	nager	Swiiiiiiiig		100 / 04/	; o, , o g, oo	

nager i'aime ... faire du vélo When aller à la pêche I'm alone I aller en ville like... tchatter / poster faire de la cuisine

prendre des selfies écouter de la musique faire du footing faire des randonnées jouer au rugby

tu as il/elle/on a nous avons listening to music vous avez chatting/posting ils/elles ont

sont

taking selfies

going cycling

going fishing

going to town

cooking

jogging

going hiking

playing rugby

lle... My friend is called... bleus blue les yeux eyes les cheveux hair

aris grey **verts** green **bruns** brown marron chestnut noisette hazel blonds courts short blonde longs long mi-longs mediumbruns brown length noirs raides straight black bouclés wavy frisés curly roux red

3 E

Comment as-tu fêté ton anniversaire? des tâches de rousseur - freckles J'ai invité mes amis chez moi I invited my friends to my house un bon sens de l'humour - a sense of humour How did you celebrate your birthday? And I got lots of tee-shirts as et j'ai reçu beaucoup de teej'ai fêté mon I celebrated my birthday assez grand(e) quite tall. Être - t<u>o be</u> shirts comme cadeaux presents very short. très petit(e) anniversaire le... on... je suis de taille moyenne medium height Tout le monde a dansé, c'était Everyone danced, it was great. j'ai invité mes ami(e)s I invited my friends i'ai ouvert mes cadeaux I opened my presents tu es nice j'ai reçu un tee-shirt I received a tee-shirt sympa il/elle/on C'est l'anniversaire de Marc ce It's Marc's birthday this Saturday. drôle funny I read my messages j'ai lu mes messages égoïste selfish j'ai mangé du gâteau I ate some cake est impatient(e) impatient I drank some cola j'ai bu du coca Il va avoir une fête chez lui aussi. He's going to have a party at his nous sommes bête stupid nous avons fait du bowling we did bowling arrogant(e) arrogant house too. vous êtes we danced nous avons dansé timide shy nous avons pris des selfies we took selfies Je pense que je vais porter un I think I'm going to wear a new ils/elles agaçante annoying nouveau tee-shirt! je suis allé(e) en ville I went to town stubborn tee-shirt! têtu



# Newsome Academy Year 9 - Mon monde à moi

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

- Describe oneself and family in detail.
- Use adjectives accurately to describe people and relationships.
- Describe a celebration in the past.

## **Retrieval Practice**

Questions

do?



#### Answers

- Qu'est-ce que tu aimes faire le weekend? - What do you like to do at the weekend?
- trouve ça chouette. Quelquefois j'aime aller en ville mais je n'aime pas faire du vélo. À mon avis, c'est nul.

D'habitude j'aime jouer au foot avec mes copains. Je

Qu'est-ce que tu fais comme activités extrascolaires? - What extra curricular activities do you

Après le collège le mardi, je vais au club de danse

Le lundi, je chante dans la chorale. J'adore chanter!

Tu es comment? - What are you like?

How did you celebrate your

birthday?

like?

- Je suis assez grand et mince. J'ai les cheveux blonds et longs et les yeux verts.
- Je suis tres intelligent et je ne suis pas arrogant.
- Ton ami(e) est comment? What's Mon ami s'appelle Fred. Il est tres timide. Il as les your friend like? cheveux noirs et courts et il porte des lunettes. Je m'entends bien avec lui car il est sympa.
- Comment as-tu fêté ton L'année dernière, j'ai invité mes copains chez moi et nous anniversaire?

avons pris des selfies. Après, j'ai ouvert mes cadeaux et j'ai mangé du gâteau.

Miam miam.

- C'etait comment? What was it À mon avis c'était fantastique.
- Qu'est-ce que tu vas porter? Je vais aller chez mes amis et je vais porter un jean avec un tee-shirt rouge. Je vais aussi porter des baskets What are you going to wear? noires et un sweat bleu.

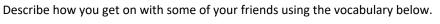
### Career Focus - Where could this take you?





I am a vlogger. I use French and German to make videos. Sometimes these are just for fun and sometimes I use them to teach people how to speak French and German. It is a lot of fun and I need to be creative to keep my audience watching my content.

## **Challenge Activities**



Je m'entends bien avec lui/elle. I get along well with him/her.

I argue with him/her. Je me dispute avec lui/elle.

Je me fâche contre lui/elle. I get angry with him/her.

Il/Elle se fâche contre moi. He/She gets angry with me.

## **Topic Links**



#### **Additional Resources**

Active learn tasks



- This topic links to:
- Greetings and introductions.
  - The present tense of key verbs.
- The perfect tense. (Holidays)
- The near future tense. (Holidays)
- Future plans (Jobs)

- To further practise and develop your knowledge see:
- www.sentencebuilders.com
- Review the future tense here



# Year 8 - Hallo!

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

- Meet and greet in German.
- Count to 31
- Give dates in German.

- Pronounce key phonics sounds.
- Ask and answer simple questions in German.
- Give their name age and birthday

Keyword	Definition	Key Concepts										
Hallal Cuton Tag	Hello!	Alphabet					)) Pho	nics				
Hallo! Guten Tag	пено!	B (beh	) C(tseh) D	(deh)	- h)		<i>"</i>	C	to	_		
Wie geht's?	How are you?	A (ah)	(ee) J(yot)	(eh)	F(eff) G(geh)		SS -	ß	ls.	- Z	V	- W
Es geht mir gut danke	I'm fine thank you	H (hah)  O (oh)  P (pet		(kah) L (ell) (air) S (ess)			Fußb	all	Z	00	<b>W</b> in	dsurfen
Wie heißt du?	What are you called?	<b>1</b> (fo)	w) W (veh)	X(iks) (oopsil	(teh)			<i>,</i>				
Ich heiße <u>Clara</u>	I'm called <u>Clara</u>	Monaten - Mo		(o <sub>opsil</sub>	on) Z(tsett)	e	eye -	ei	ee	- ie	loc	<i>h</i> -ch
Wie alt bist du?	How old are you?	Januar	Februar	März	April		Eis		s <b>ie</b>	ben	F	Ruch
Ich bin <u>zwölf</u> Jahre alt	I'm <u>12</u> years old											
Wann hast du	When is your birthday?	1/8.5		MAN MICO.			tes & Da			Farben -	Colours	
Geburtstag?	,			•		0 n	null eins		hzehn	schw	arz 🥏	braun
		Mai	Juni	Juli	August	2 z	zwei	18 act	ntzehn	ro		lila
Ich habe am vierten Juli	My birthday is on the	701	Join	Juli	Augusi	3 d			ınzehn anzig	el gel	b 🏉	rosa
Geburtstag.	4th July.	<b>%</b> &	1	O tou		5 f			undzwanzig	<pre>oran</pre>	ge 👍	blau
10/2	M/h = == d =   i	20			TELL	6 s	sechs	22 zw	eiundzwanzig	agrü	n 💣	grau
Wo wohnst du?	Where do you live?			460.06	I'm'L		sieben		eiundzwanzig	<b>beig</b>		weiß
Ich wohne in	I llive in Huddersfield	**** ***** ***** ***** ***	**** ****** ****** ******	**********************			acht		rundzwanzig		6	
Huddersfield.	I liive iii Huudeisiieid					q n	neun zehn		fundzwanzig hsundzwanzig	3	NONE	
nuduersiieid.		September	Oktober	November	Dezember		elf		penundzwanzig	DIENS	JAG-MI	twoch.
Ich bin sehr feundlich	Lam yory friendly and		1		7000	l2 z	zwölf	28 act	ntundzwanzig		The second second	
	I am very friendly and			11/11	DULUE .		dreizehn		ınundzwanzig			REITAG
und kreativ.	cretive			7	AMERICANA.		vierzehn		eißig	@SAMS	ithg 50	INNTAG
	1					15 f	fünfzehn	3I ein	unddreißig	4000	, A 0	THE PERSON NAMED IN COLUMN



Hallo! Guten Tag

Wie geht's?

Wie heißt du?

Wie alt bist du?

Wann hast du

Geburtstag?

Tasche?

Wie schreibt man das?

Questions

# Year 8 - Hallo!

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

Meet and greet in German

Pronounce key phonics sounds Ask and answer simple questions in German

Count to 31 Give dates in German

Give their name age and birthday

# Retrieval Practice

## Career Focus - Where could this take you?





am a travel agent. I book holidays for my clients. Having language skills means I can get my clients the best deals by communicating directly with tour operators around the world. I also use my excellent communication skills and understanding of how to build relationships with people from all cultures.

**Answers** Hallo! Guten Tag! Gut, danke! ✓

Ich heiße Clara.

tseh- el-ah-air-ah

Nicht so gut! X

Ich bin zwölf Jahre alt.

Mein Geburtstag ist am neunten November. Ich habe am

neunten November Geburtstag.

**Topic Links** 

Make flashcards for the questions and answers.

Use Sentence builders to practise numbers, days, months and key phonic sounds.

Research a famous German person. Make a factfile. What do they do? Where do they live? Why are they famous?

What do you know about German? Present your knowledge in a creative way.

Welchen Tag haben wir? Was hast du in deiner

Hast du ein Handy?

Ich habe einen Bleistift, einen Radiergummi und ein Lineal

Nein, Ich habe kein Handy.

Heute ist **Dienstag**.

Ja, ich habe ein Handy.

This topic links to other German topics such as

· Introducing yourself and family. This topic also links to:

Challenge Activities

- Numeracy

To further practise and develop your knowledge see: Languagenut - Use your username

**Additional Resources** 

- and password. www.sentencebuilders.com
- Active Learn You will be given your username and password by your
- Geography Welche Farbe ist das? Das ist blau. Literacy teacher.. **Tschüss** Auf Wiedersehen.

## PERFECT TENSE ("has done/did")

Start with the present tense of avoir/être, then add the past participle of the second verb:

-er	-ir	-re
Remove – <b>e</b> r Add - <b>é</b>	Remove -r	Remove – <i>re</i> Add - <i>u</i>
jou <b>er →</b> (j'ai) joué	fin <b>ir →</b> (j'ai) fini	vend <b>re →</b> (j'ai) vend <b>u</b>

## VERBS USING ÊTRE e.g. je suis allé(e)

monter entrer sortir venir aller naître partir descendre arriver tomber rester mourir retourner (and all reflexive verbs)

The past participle for these verbs must agree with the subject in gender and number:

je suis allé (m) je suis tombée (f) on est entrés (mpl) on est entrées (fpl)

## IMPERFECT TENSE ("was doing/used to do")

Remove —ons from the nous form of the present tense, add these endings (ais/ais/ait/ions/iez/aient)

	jouer	finir	vendre
je	jou <b>ais</b>	finiss <b>ais</b>	vendais
tu	jou <b>ais</b>	finiss <b>ais</b>	vend <b>ais</b>
il/elle/on	jou <b>ait</b>	finissait	vend <b>ait</b>
nous	joui <b>ons</b>	finissions	vendions
vous	joui <b>ez</b>	finissiez	vendiez
ils/elles	jou <b>aient</b>	finissaient	vendaient

#### PRESENT TENSE ("does/is doing")

Remove the -er/-ir/-re and add these endings:

	jouer	finir	vendre
je	jou <b>e</b>	finis	vends
tu	jou <b>es</b>	finis	vends
il/elle/on	jou <b>e</b>	fin <b>it</b>	vend
nous	jou <b>ons</b>	finissons	vendons
vous	jou <b>ez</b>	finissez	vendez
ils/elles	jouent	finissent	vendent

#### ÊTRE

je suis / tu es / il est / nous sommes / vous êtes / ils sont **AVOIR** 

j'ai / tu as / il a / nous avons / vous avez / ils ont

## NEAR FUTURE TENSE ("is going to do")

Use the present tense of aller followed by the infinitive:

je	vais	
tu	vas	jouer finir
il/elle/on	va	vendre
nous	allons	être aller
vous	allez	vouloir etc.
ils/elles	vont	etc.

## PLUPERFECT TENSE ("had done")

Very similar to the perfect tense, except you start with the *imperfect* tense of auxiliary verbs *avoir/être*: e.g. j'avais joué, il avait fini, nous étions allés, elles s'étaient brossées les dents

## SIMPLE FUTURE TENSE ("will/shall do")

Add these endings to the infinitive:

	jouer	finir	vendrg
je	jouer <b>ai</b>	finirai	vendr <b>ai</b>
tu	jouer <b>as</b>	finiras	vendras
il/elle/on	jouer <b>a</b>	finira	vendr <b>a</b>
nous	jouer <b>ons</b>	finirons	vendrons
vous	jouer <b>ez</b>	finirez	vendr <b>ez</b>
ils/elles	jouer <b>ont</b>	finiront	vendront

#### **IRREGULAR STEMS**

 être (ser-)
 avoir (aur-)
 faire (fer-)

 venir (viendr-)
 savoir (saur-)
 aller (ir-)

 devoir (devr-)
 pouvoir (pourr-)
 voir (verr-)

## CONDITIONAL TENSE ("would do")

Begin with the future stem, add imperfect endings:

	jouer	finir	vendre
je	jouer <b>ais</b>	finirais	vendrais
tu	jouer <b>ais</b>	finirais	vendrais
il/elle/on	jouer <b>ait</b>	finirait	vendrait
nous	joueri <b>ons</b>	finirions	vendrions
vous	joueri <b>ez</b>	finiriez	vendr <b>iez</b>
ils/elles	jouer <b>aient</b>	finiraient	vendraient

#### **IRREGULAR STEMS**

Same as for the simple future

EXTRA MARKS: USE WITH THE IMPERFECT TENSE Si j'avais le temps, j'irais... (If I had time, I'd go to...)

#### Negatives

Most negatives work like *ne...pas* (not). They are in two parts and go around the verb:

- · ne...rien (nothing)
- · ne...jamais (never)

shortens to n':

ne...plus (no longer, not anymore)
 With il y a (there is/are), the negatives go around y a and ne

Il **n'**y a **rien** a faire. (There is nothing to do.)

Il **n'**y a **jamais** de bus. (There are never any buses.)

Il **n'**y a **plus** de magasins. (There are no longer any shops.)

### Sequencers (narrative words)

d'abord firstly/first of all ensuite next puis then après after/afterwards finalement finally

#### Connectives

et and mais but
ou or où where
parce que because
donc/alors therefore/so
cependant however
car as (because)
puisque since (because)

### Present vs. imperfect

il y a (there is)
il y avait (there was)
c'est (it is)
c'était (it was)

## 1st step - Description

#### To start off:

Sur l'image/la photo In the image/the photo

Il y a

There is/ are Je vois / On peut voir I see / We can see The photo shows La photo montre Le scène se passe The scene takes place

# 2<sup>nd</sup> step - Opinions

#### **Hypothesis:**

Ils/Elles ont l'air They seem Il/Elle a l'air He/She seems It looks like Ça/Il a l'air Peut-être Maybe

Ca semble être It seems to be

## **Locating:**

Au premier plan In the foreground In the background À l'arrière plan À gauche/ à droite

Près de..

Devant/Derrière.. In front of/At the back

Au milieu...

To the left/to the right Close to

In the middle

une photo

Décrire

## Say what you think about the photo

Je crois que... Je suppose que... I think that... I suppose that...

Je pense que... Il me semble que... I think that... It seems to me that...

Je dirais que... Cela me rappelle... It reminds me of... I would say that...

## Remember to mention the 4 Ws

Where/Où	When/Quand	Who/Qui	What/Quoi
<ul> <li>À l'école</li> <li>Dans la rue</li> <li>À la montagne</li> <li>Au bord de mer</li> <li>À l'intérieur</li> <li>À l'extérieur</li> <li>En ville</li> </ul>	Weather  • Il fait beau  • Il pleut  • Il y a du soleil  Moment  • Le soir  • Le midi  • Pendant	<ul> <li>Une famille</li> <li>Des enfants</li> <li>Beaucoup de monde</li> <li>Quelques personnes</li> <li>Des arbres</li> <li>Des bâtiments</li> </ul>	• Ils/Elles sont en train de: parler, manger, faire la fête, rigoler, s'amuser, recycler, apprendre, faire du sport, jouer, bronzer

J'aime cette

- parce que les gens ont l'air heureux/drôles...
- car j'adore la plage, la montagne, les festivals...
- j'aimerais faire partie de la scène pour...

pas cette photo

- pace que la météo n'est pas à mon goût
- car je n'aime pas les activités, je préfère...
- Je ne voudrais pas participer à la photo car...



# **CVT**

## 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.



# **Year 9 Surrealism**

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

- Develop knowledge of the characteristics of the surrealism movement.
- Demonstrate accurate drawing skills.

Experiment with collage showcasing understanding of surrealism. Produce a personal response showcasing understanding of surrealism.

Keyword	Definition
Surrealism	A movement in art and literature. Surrealism aimed at expressing imaginative dreams and visions.
Movement	An art movement is generally defined when a group of artists during a specific time adapt a particular style with a common goal.
Collage	Collage describes both the technique and the resulting work of art in which pieces of paper, photographs and fabric are arranged and stuck down onto a surface.
Observational Drawing	To create a drawing of what you see in front of you as realistically and as true to life as possible.
Juxtaposition	Juxtaposition is when you place two concepts or objects next to or near each other, thereby highlighting their differences and similarities.

## **Key Concepts**

## During this project you will:

- Explore the Surrealist art movement
- Experiment with collage techniques
- Develop observational drawing skills.
- Create your own surreal artwork showcasing an understanding of the movement style.

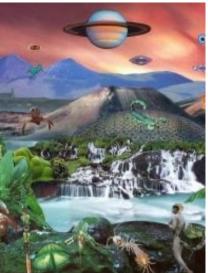
# sur·re·al·ism

/səˈrēəˌlizəm/ 📢))

noun

 a 20th-century avant-garde movement in art and literature which sought to release the creative potential of the unconscious mind, for example by the irrational juxtaposition of images.











# **Year 9 Surrealism**

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

- Develop knowledge of the characteristics of the surrealism movement.
- Produce a personal response showcasing understanding of surrealism.
- Demonstrate accurate drawing skills.
- Experiment with collage showcasing understanding of surrealism.

Retrieval Practice	
Questions	Answers
What is a movement in art?	An art movement is generally defined when a group of artists during a specific time adapt a particular style with a common goal.
What does the word surreal mean?	Strange, not seeming real, dreamlike.
When did the Surrealism movement start?	1920. After the first world war.
What are some of the key features of Surrealist Art?	Key features of surreal painting: Wrong Place, wrong Scale, juxtaposition of imagery, merging of objects, playful, strange, bizarre placement/arrangement/juxtaposition of objects/imagery.
What is a collage?	Collage describes both the technique and the resulting work of art in which pieces of paper, photographs, fabric are arranged and stuck down onto a surface.
What is an observational drawing?	An observational drawing means to create a drawing of what you see in front of you as realistically and as true to life as possible.

### Career Focus - Where could this take you?



I am a Wedding Photographer.
My Job includes liaising with
clients, promoting my
business, capturing the
happiest moments of a
couple's day on camera, editing

and retouching images.

#### **Challenge Activities**



Scan the QR code to watch Peter Capaldi

explain the

# Topic Links surrealism

History – understanding of hima a week influenced art.

English - Understanding terminology.

Science – accurate observation skills



code to go to the Tate Gallery website to

Scan the QR

Additional Resources about



Scanred ign.
code to watch
an artist use the
collaging



**Target Audience** 

Income

Profit

Site Plan

Theme

**Digital Project** 

**Promotional Material** 

**Professional Design** 

Expenditure

# Academy Unit 9.1: Plan a Music Festival

The primary group of people that

something is aimed at appealing to

The amount of money received for

providing goods or services

The amount of money spent to

The aims of the sequence of learning are to ensure that all students: Demonstrate knowledge of planning techniques and financial literacy by developing a plan for a music

- festival and calculating the estimated profit for the event
- Demonstrate knowledge of event planning by developing a logical site-plan for the music festival
- Demonstrate knowledge of using Adobe Express by developing a range of professional looking promotional material for the music festival
- Apply knowledge from this unit to accurately describe some keywords

# **Keyword Definition**

## **Key Concepts**

Start a New Graphic

black & white clip art.

Select the blue plus button at the top of the

**Working with Images** 

Image/Photo- Images can be added by clicking

the 'Photo" button. Upload from your device, or

use the Search option within Spark for copyright

free images. Click 'Icons' to search for simple

Students will be expected to plan a brand new music festival by following project planning and marketing strategies inspired by industry experts.

The tasks include developing a site plan for the festival, managing the finances and creating a range of social media posts to advertise the music festival.

3

Т

0

0

B

•

## purchase goods or services The remaining balance after subtracting the total expenditure from the total income A detailed Plan showing the proposed placement of structures, parking areas and open space Products that are both developed and delivered digitally using a computer

The elements used that create a

Graphical products created to

of an event or business

created by a professional

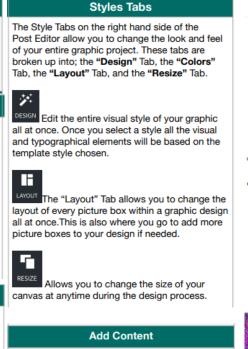
consistent look and feel for a product

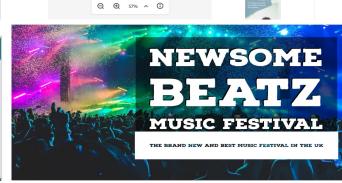
promote and increase the awareness

A design that aims to replicate the

design of something that has been







**NEWSOME** 

MUSIC

**FESTIVAL** 

THE BRAND NEW AND BEST MUSICAL FESTIVAL IN THE UK

Swine Un For More Info

You can add text, photos, icons, etc..to build your graphic by clicking the 'Add' button



Text- You can start from a template, or from scratch. Set the font, color, style, shape and



## **Unit 9.1: Plan a Music Festival**

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

- Demonstrate knowledge of planning techniques and financial literacy by developing a plan for a music festival and calculating the estimated profit for the event
- Demonstrate knowledge of event planning by developing a logical site-plan for the music festival
- Demonstrate knowledge of using Adobe Express by developing a range of professional looking promotional material for the music festival
- Apply knowledge from this unit to accurately describe some keywords

## **Retrieval Practice**



Retrieval Practice	38
Questions	Answers
Why is it important to calculate your expected income and costs before beginning a project?	Without this information it becomes difficult to calculate how much profit your project is likely to make.
What is the purpose of developing a site plan for this musical festival?	Every event has to plan how their site will be setup. It is important to understand how much space you have and where things can be placed before you do it in real life.
Why is it important to make sure that you understand who the target audience is for the music festival?	You need to know who you are aiming the music festival at e.g. age group, gender, musical interests etc  Everything you do should be based on meeting the requirements and expectations of your target audience. Different categories of people tend to prefer things to done in a particular way that is most suited to their preferences.
Why do you think companies spend so much money on advertising or promoting their events and products?	Companies need to create an awareness, hype and buzz about something to make people to want to attend or purchase something. An increase in sales usually means an increase in profits.
Why do you think it is important to make sure that you create professional looking and eye-catching digital content to advertise and promote the music festival?	The first impression counts for a lot. If your digital content does not look eye catching and professional then people may choose not to click on it, develop a negative view of the company or just not take things seriously enough.
	The time and money spent on creating and promoting the digital content would have been a complete waste of time, and may actually have the opposite effect.
Why do you think it would help to promote your music festival on a lot of different social media platforms?	People use a range of social media platforms. Posting your digital content to promote or advertise on multiple platforms will increase the likelihood of somebody within your target audience seeing it.  With the use of cookies and other tracking tools, your content could follow a user on each linked platform that they use.

### Career Focus - Where could this take you?



In my role as a project manager I ensure my team work to deliver any project on time and to a high standard. I need to lead my team, plan the project, deal with any issues that arise and

report regularly to my clients.

#### **Challenge Activities**

- 1. Create a logo and slogan for the musical festival. Explain the reasons behind the design decisions you have made.
- Design an app for your music festival include a launch screen, menu screen and at least three other pages. Explain the design, the reasons you have designed the app the way that you have and how you would expect to benefit from creating the app.
- Do some research on the internet to find out what other things a real music festival would need to plan/do before it can go ahead. Rank each task/activity from most important to least important. Explain your rankings.

#### **Topic Links**



#### **Additional Resources**



This topic links to:

Computing Curriculum:

- Undertake creative projects that involve combining multiple applications to achieve challenging goals
- Create and re-purpose digital artefacts for a given audience, with attention to trustworthiness and usability
- Art and design (creating advertisements and images)
- English (planning thoroughly)

Adobe Express Tutorial: youtu.be/24rM8v2hAAo

To further practise and develop your knowledge see:

- MS PowerPoint Tutorial: youtu.be/TZfcVbKJs1E



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

• Successfully apply knowledge of food legislation when applied to

• Successfully apply knowledge of food legislation when applied to case studies

Recall a range of factors that inform food choices Demonstrate ability to effectively adapt recipes for a range of food choice factors

Keyword	Definition
Legislation	rules or laws relating to a particular activity that are made by a government
FSA (food standards agency)	responsible for food safety and food hygiene in England, Wales and Northern Ireland.
Food safety act	The Food Safety Act 1990 is a vital part of environmental law and is <b>an act that all food businesses in the UK</b> must comply with.
Adaptation	Changing the ingredients or cooking methods of a dish in some way
Shortening	<b>Shortening</b> is any <u>fat</u> that is a solid at <u>room temperature</u> and used to make <u>crumbly pastry</u> and other food products.
Aeration	Aeration is the process of adding very tiny pockets of air to something. In the case of fats and oils, this is normally done using mechanical/physical means, such as creaming a mixture together using a wooden spoon or using an electric whisk.
Coagulation	Coagulation is defined as the change in the structure of protein (from a liquid form to solid or a thicker liquid) brought about by heat, mechanical action or acids. Enzymes may also cause protein coagulation e.g. cheese making.
Food choices	Calcium is a mineral your body needs to build and maintain strong bones and to carry out many important functions.
Dietary needs	Carbohydrates provide energy for the body. The body breaks carbohydrates down into glucose, which is the primary energy source for the brain and muscles.
Coeliac	Coeliac disease is a condition where your immune system attacks your own tissues when you eat gluten.
Lactose intolerance	Lactose intolerance is when you get symptoms, such as tummy pain, after eating food containing lactose, a sugar found in dairy products.
Allergy	An allergy is a reaction the body has to a particular food or substance.
Intolerance	an <u>inability</u> to eat a food or take a drug without adverse effects.
Vegan	Veganism is the practice of abstaining from the use of animal product—particularly in diet—and an associated philosophy that rejects the commodity status of animals.
Ethics/ethical	relating to beliefs about what is morally right and wrong

## **Key Concepts**



The Food Standards
Agency (FSA) is
responsible for food
safety and food hygiene
in England, Wales and
Northern Ireland. It
works with local
authorities to enforce
food safety regulations
and its staff work in meat
plants to check the
standards are being met.

#### Food Standards Act 1999

The Act was introduced in the House of Commons in 1999. It sets out our main goal to protect public health in relation to food. It gives us the power to act in the consumer's interest at any stage in the food production and supply chain.

#### Food Safety Act 1990

The main responsibilities for all food businesses covered by the Act are to ensure that:

- businesses do not include anything in food, remove anything from food or treat food in any way which means it would be damaging to the health of people eating it
- the food businesses serve or sell is of the nature, substance or quality which consumers would expect
- the food is labelled, advertised and presented in a way that is not false or misleading



#### 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, appropriate to the task

## **Shortbread**







## **Ingredients:**

- •200 g plain flour , plus extra for dusting
- •50 g caster sugar, plus extra for sprinkling over
- •125 g unsalted butter

Equipment:
Mixing bowl
Wooden spoon
Greased baking tray
Cookie cutter

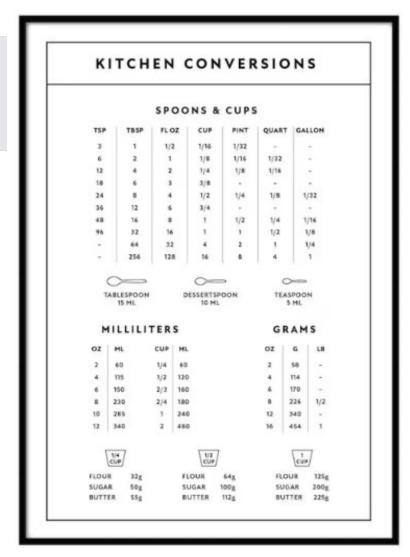
## Method:

- 1. Preheat the oven to 170°C/325°F/gas 3.
- 2. Mix the flour and sugar together in a mixing bowl.
- 3. Rub in the butter with your thumb and forefinger. Don't knead it, you just want to pat it down flat.
- 4. Push or roll it out until it's 1cm thick on a floured surface—cut out your shapes and then put onto your baking sheet
- 5. If it splits or tears, just press it back together but remember, the less you work the dough, the shorter and better these biscuits will be.
- 6. Put into the middle of your preheated oven for 20-25 minutes until golden brown.
- 7. Allow to cool.

#### At home:

Dip them into melted chocolate or add toppings and icing onto the top

Skills:	<u>Meanings</u>					
1.	General Practical Skills: Weighing ingredients, measuring, preparing ingredients and equipment, correct cooking times, testing for readiness and sensory testing.					
2.	<b>Rubbing in method:</b> rubbing in butter with sugar and flour to create a workable dough					
3.	<b>Cutting out:</b> Using the cookie cutters to create biscuits					
4.	Use of the cooker (and Skills 6: Cooking Methods): Using the cooker including: the hob, grill and oven.					
5.	<b>Cooking Methods:</b> Using the cooker including: the hob, grill and oven.					
6.	<b>Preparing, combine and shape:</b> Techniques to prepare, cook and combine different ingredients.					





#### 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, appropriate to the task

## Lemon or vanilla tart







## Equipment:

- Large bowl
- Rolling pin
- Table knife
- Measuring jug
- Grater
- Whisk
- Shallow oven proof pie dish

## Pastry Ingredients:

- 150g plain flour
- · 75g butter

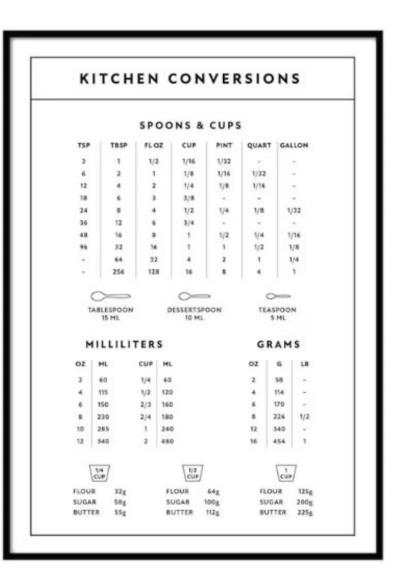
#### Filling ingredients:

- 50g sugar
- 150 200ml single cream
- 2 eggs
- 2 lemons or add a couple of drops of vanilla
- 2 tbsp. lemon juice

<u>Skills:</u>	<u>Meaning</u>
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.
4.	Use of the cooker (and Skills 6: Cooking Methods): Using the cooker including: the hob, grill and oven.
6.	Cooking Methods: Using the cooker including: the hob, grill and oven.
7.	<b>Preparing, combine and shape:</b> Techniques to prepare, cook and combine different ingredients.
10.	Dough: Making dough including: bread, pastry and pasta.
11.	Raising Agents: Use of raising agents including: eggs, chemical, steam and biological.
12.	Setting mixtures: Setting of mixtures through use of heat and egg protein.

## Method:

- Place flour and butter in bowl and rub in.
- Add little cold water to form a dough.
- Roll out on floured surface and line a pie dish.
- Bake blind for 5-10 minutes
- 5. Grate rind of lemon into large bowl, and add juice ensuring no pips. Or add a couple of drops of vanilla
- 6. Add eggs ensuring no shell.
- 7. Add cream and sugar and whisk together.
- 8. Pour in pastry case and bake for 20 minutes until just set.
- 9. Cool and dust with icing sugar.





#### 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

# **Vegetable Samosas**

### Ingredients

1/2 potato

1/2 carrot

1/2 onion

1x15ml spoon fresh coriander

½ red chilli

Spray oil

1x5ml spoon garam masala

1/2 5ml spoon turmeric

2-3x15ml spoons water

25g peas (frozen)

1 pack filo pastry

25g butter or soft spread



#### Equipment:

Chopping board Knife

Vegetable peeler

Saucepan Frying pan

Colander

Wooden spoon Small bowl

Pastry brush

Baking tray.

#### Method:

- Preheat oven to 200°C or gas mark 6.
- Prepare the filling:
- peel and finely dice the potato;
- peel and finely dice the carrot;
- peel and finely dice the onion;
- deseed and finely dice the chilli;
- chop the coriander.
- Par-boil the potatoes for 5-8 minutes.
- Fry the onion in the oil for 4-5 minutes.
- Add the chilli and spices and cook for a further 1 minute.
- Drain the potatoes and carrots in a colander.
- Add the potatoes, carrots and water to the onion mixture, fry gently for 5 minutes.
- Add the peas and coriander.
- Remove from the heat and allow to cool.
- Lay 2-3 sheets of filo pastry on the work surface.
- Cut into 10 cm wide strips.
- Place 1x15ml spoon of filling in the bottom left-hand corner. Fold over to make a triangle. Repeat this process.
- 11. Place on a baking sheet and repeat the process.
- 12. Lightly spray the samosas with oil, or brush with the fat, and bake for 10 minutes.

Skills:	<u>Meanings</u>
1.	<b>General Practical Skills:</b> Weighing ingredients, measuring, preparing ingredients and equipment, correct cooking times, testing for readiness and sensory testing.
2.	Knife and chopping skills
3.	Use of the cooker (and Skills 6: Cooking Methods): Using the cooker including: the hob, grill and oven.
4.	<b>Cooking Methods:</b> Using the cooker including: the hob, grill and oven.
5.	<b>Preparing, combine and shape:</b> Techniques to prepare, cook and combine different ingredients.

K	ITC	Н	EN	со	NV	ER	SIC	N	S
			SPO	DONS	& C	UPS	5		
TSP	TE	SP	FLO	z cu	p	THIS	QUART	GA	LLON
3		1	1/2	1/1	6	1/32			
6		2	1	1/	30 1 1	1/16	1/32		-
12		4	2	1/		1/8	1/16		
18		6	3	3/					
24			4	1/	2	1/4	1/8	١,	/32
36	1	2	6	3/	4		-	100	
48	1	4		1		1/2	1/4	1	1/16
96	3	2	16	1		1	1/2		1/8
-		4	32	4		2	1		1/4
-	2	56	128	1 16			4	l.	1
	_	-		0	_		0	_	
T	ABLESP				TSPOO ML	N		SPOO S ML	N
M	IILLI	LIT	ER	s			GR	AN	15
oz	ML		CUP	ML			oz	G	LB
2	60		1/4	60			2	58	1.2
4	135		1/2	120			4	114	
6	150		2/3	160				170	-
8	230		2/4	180				226	1/2
10	285		1	240			12	340	
12	340		2	480			16	454	1
1	1/4 CUP			[	(2 UP			Cu	.]
FLOU		2g		FLOUR	64		FLO	UR	125
SUGA		og		SUGAR	100		suc		200y
BUTT	ER S	5 g		BUTTER	112		801	TER	2259

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

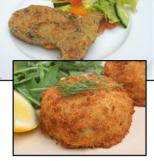
#### The aims of the sequence of learning are to ensure that all students:

- 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, appropriate to the task

## Fish Cakes





## **Ingredients:**

4 oatcakes or large cream crackers
200g potatoes - peeled
100g fish (cod/salmon/smoked haddock) – no bones or
skin
60g frozen mixed vegetables
Small handful of parsley leaves

\*\*\*Bring tub with a lid\*\*\*

## **Equipment:**

- Baking tray
- Bowl
- Plate
- Foil,
- Small bowl
- Wooden spoon Chopping board Oven gloves
- · Fish slice.

## Career Focus - Where could this take you?



I am a food critic and I analyse the food and restaurants around the country and write about them in newspapers, magazines and blogs.

## Method:

- 1. Preheat oven to 220° C or gas mark 7.
- 2. Peel and chop your potatoes and boil for 15 minutes until soft.
- 3. Meanwhile, wrap your fish in a small piece of foil, season and bake in the oven for 10 minutes.
- 4. Grease or line a baking tray.
- 5. Crush the oat cakes/crackers in a bowl and tip onto the plate.
- 6. Drain the potatoes and leave to cool for 5 minutes
- 7. Take the fish out of the oven and leave to cool for 5 minutes
- 8. Tear the parsley leaves in to small pieces.
- 9. Mix everything together in the bowl
- 10. Divide the mixture into four.
- 11. Shape each portion into a cake (or a fish).
- 12. Press each side of the cake into the crushed oatcakes.
- 13. Place on the baking tray.
- 14. Bake for 20-25 minutes.

Skills:	<u>Meaning</u>
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.
4.	Use of the cooker (and Skills 6: Cooking Methods): Using the cooker including: the hob, grill and oven.
6.	Cooking Methods: Using the cooker including: the hob, grill and oven.
7.	<b>Preparing, combine and shape:</b> Techniques to prepare, cook and combine different ingredients.

#### **Challenge Activities**

Try some of these recipes at home Follow the links

**Swiss Roll** 

Lasagna

## **Breakfast Muffins**

Food skills are

acquired, developed and secured over time

**Bridge hold** 

Claw grip





# **Year 9 Vocal Harmony**

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

- Understand the creative use and emotional impact of harmony in a variety of genres
- Be able to sing harmonies and perform them on the keyboard/piano

#### Keyword **Definition Key Concepts** The combination of Harmony simultaneously sounded musical notes to produce a pleasing effect. The part of a song that is sung using the human Vocals voice. The words in a song are called lyrics. Monophonic Homophonic **Texture** Musical Texture refers to how different layers of a piece of music are combined to produce the overall sound. Consonance: A combination of two (or more) Consonance tones of different frequencies that results in a Heterophonic Polyphonic musically pleasing sound. A harmony that sounds good. Dissonance: A combination of two (or more) Dissonance Anatomy of the Larynx Larynx tones of different frequencies that results in a musically displeasing sound. A harmony that sounds bad. Monophony When only one melody is playing. Thyroid Cartilage Homophony Multiple melodies or chords that work together Tongue and sound similar playing at the same time. Epiglottis Polyphony Multiple independent melodies that each Supraglottis Vocal cord -Larynx sound unique playing at the same time. Subglottis When two slightly different versions of the same Heterophony Esophagusmelody play at the same time. **ANTERIOR VIEW POSTERIOR VIEW CROSS SECTION** Trachea www.lybrate.com 👘 💣 lybra⇔e © 2012 Terese Winslow LLC U.S. Govt. has certain rights



# Newsome Academy Year 9 Vocal Harmony

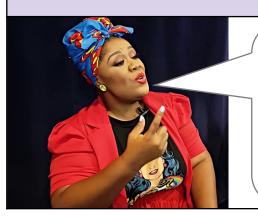
The aims of the sequence of learning are to ensure that all students:

- Understand the creative use and emotional impact of harmony in a variety of genres
- Be able to sing harmonies and perform them on the keyboard/piano

## **Retrieval Practice Ouestions Answers** What is the musical term for the The vocals. parts of a song that are sung? What is the difference between Consonance is when the notes in a melody work well consonance and dissonance? together. Dissonance is when the notes clash and don't sound good together Why are vocal warmups They help to prepare your voice for a performance and important? help reduce the risk of damaging your vocal What is the correct, biological The Larynx. name for a voice box? What is the definition of The combination of simultaneously sounded musical notes to produce a pleasing effect. harmony? What are the words in a song The Lyrics. called? What does texture mean? Musical Texture refers to how different layers of a piece of music are combined to produce the overall sound.

## Career Focus - Where could this take you?





I'm a vocal coach, and my job is to help people improve their singing and speaking skills. I teach them how to use their voice in the best way, whether they're singing songs or talking to others. I also show them how to breathe correctly, which can help them feel more confident and sing or speak with the right volume and tone. I even work with public speakers like politicians and lecturers to help them speak effectively to a large crowd. So, I help people find their voice and express themselves better!

#### **Challenge Activities**



#### Singing at the correct pitch

Play a note on a piano or keyboard. Using your voice, try to hum the same note. Listen carefully; you will know you are humming the correct note when the two notes sound like they are starting to blend together. Once you have done this, move onto another piano note.

#### **Vocal Warmup**

Make a buzzing sound with your lips (like an old telephone ringing). Slowly increase the pitch as high as you can go, then decrease the pitch as low as you can go. If done right this should sound like a police siren. Scan the QR code below for more vocal warmups.

### **Topic Links**



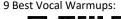
#### **Additional Resources**



This topic links to:

- Drama Vocal projection, performance for an audience
- Dance Polyphony is similar to 'juxtaposition'
- Languages- Prefixes such as 'poly' and 'homo'
- Science The anatomy of the larynx and the physics of sound/vibrations

Musical Texture:









**Pass** 

## Academy Year 9 Invasion Games

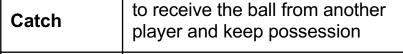
The aims of the sequence of learning are to ensure that all students:

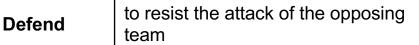
- Can identify at least six core skills required for invasion games and explain how they are used in a game to ensure a successful performance
- · Demonstrate basic core skills such as a footwork in isolation with accuracy

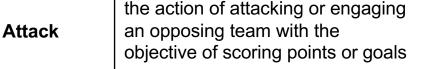
- Demonstrate core skills in a game situation with competence
- Lead a group of peers with confidence in a drill which focusses on multiple skills

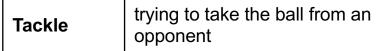
# Keyword Definition

# keep possession of the ball by maneuvering it between different players with the objective of advancing it up the playing field









# Intercept Obstruct someone/something from getting to their desired position/destination

# Tactics A strategy planned and implemented to achieve a set goal

## **Key Concepts**

### Defending

#### Cover

When a defender puts pressure on the attacker — the other defenders cover the space the defender left.



#### Delay

If possession is lost quickly—a defender should try to slow the attacker down so other players can get back in position (goal side).



#### Attacking Depth

Sometimes passes need to go away from the goal to draw the defenders away from the goal — creating space for a future forward pass.

#### Support

To give the player in possession as many options as possible team-mates move into different positions to receive the ball. This could be to the side / behind / in front of the ball.



## You should already know:

- The aim of invasion games
The name of at least 3 invasion games
The core principles of invasion games

- The core skills core to be successful in invasion games
  - Tactics to achieve success in invasion games

#### You will be assessed on:

Understanding
 Technique in isolation
 Technique in game
 Leadership

Attitude to learning

Athletes to research further: Josh Koroma



Laura Malcolm



## Maro Itoje





# Academy Year 9 Invasion Games

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

- Can identify at least six core skills required for invasion games and explain how they are used in a game to ensure a successful performance
- Demonstrate basic core skills such as a footwork in isolation with accuracy
- Demonstrate core skills in a game situation with competence
- Lead a group of peers with confidence in a drill which focusses on multiple skills

Retrieval Practice				
Questions	Answers			
What are the core Netball skills?	Chest pass, Bounce pass, Shoulder pass, Overhead pass, Two-footed landing, One-footed landing, Shooting, Pivot, Man Marking, Marking the space, Dodging and Spinning			
What are the Netball positions?	Goalkeeper, Goal defence, Wind defence, Centre, Wing attack, Goal attack and Goal shooter			
What are the core football skills?	Dribbling close to feet, Dribbling changing direction with speed, Passing side foot (close distance), Passing on laces (long distance), Defending (man to man), Defending (line defending), Offside trap/rule, Attacking (two versus one), Attacking (channels) and Throw ins			
What are the core Rugby skills?	Target with hands out, Push pass, <b>Spin pass</b> , Catch and pass, Protecting, Holding, <b>Contact tackling</b> , Side-stepping, <b>Spinning</b> , Attacking (line speed), Attacking (creating an overlap), Defending (line and			

movement) and Defending (moving 10 yards)

## Career Focus - Where could this take you?





As a team nutritionist, my role involves creating personalized meal and dietary plans that match the specific goals, performance needs, and body types of athletes. I work closely with the team to ensure that each player receives the right nutrition to help them perform at their best and stay healthy.

## **Challenge Activities**



- 1.Create a mind map of the differences between netball, football and rugby components of fitness an invasion games player needs.
- 2. Answer the following question: What component of fitness is most important to an invasion games player and why?

## **Topic Links**



#### **Additional Resources**



This topic links to:

- Science movement of the body and muscles; the physics of sports
- English understanding and defining key terminology
- Mathematics problem solving, recording figures and analysing performance
- Voice 21 coaching peers

To further practise and develop you knowledge see:

- https://web.uvic.ca/~thopper/WEB/Cahperd/Space in InvasionGames.pdf
- https://www.theukrules.co.uk/rules/sport/netball/in dex.html



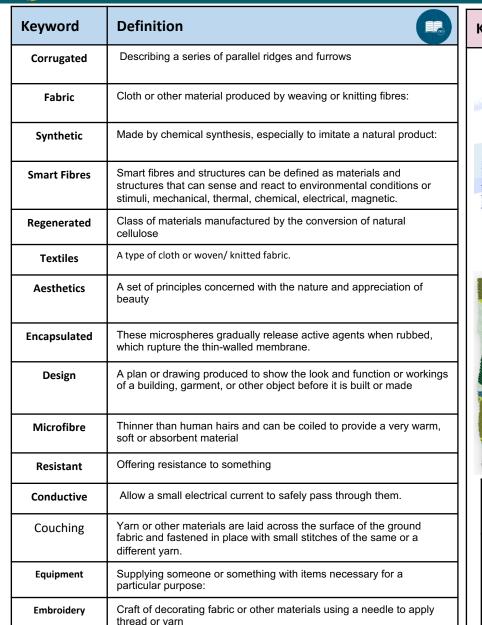
# **Year 9 Textiles**

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.

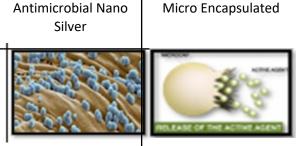
## **Key Concepts**





manufacturers Some **HOW TO REDUCE YOUR** are also working on **FASHION FOOTPRINT** ways to reduce the environmental from impact the their production of while others jeans, have been developing of recycling ways denim or even jeans that will decompose within a few months when composted THE ENVIRONMENTAL IMPACT OF TEXTILES The carbon footprint of ONE NEW s GREATER than **DRIVING a CAR** for 35 MILES FIBRES

**ACCESS FM AESTHETICS** WHAT DOES THE PRODUCT LOOK LIKE? THINK SHAPE, FORM, MATERIALS, SIZE, BEAUTY, UGLINES: COST WHAT IMPACT WOULD IT HAVE ON A CUSTOMERS LIFE? WHY WOULD A CUSTOMER BUY IT? WHAT MAKES IT SUITABLE FOR THEM WHO WOULD BUY IT? WHO WOULD USE IT? CUSTOMER ENVIRONMENT 0 IS THE PRODUCT HIGH QUALITY? DOES IT MEET SAFETY STANDARDS? HOW HAS THE DESTGNER CONSTDERED SAFETY? COULD THE PRODUCT HURT ANYONE? ARE THERE ANY SHARP EDGES? SAFETY IS IT AN APPROPRIATE SIZE? WOULD IT WORK BETTER IF IT WAS BIGGER OR SI SIZE DOES THE PRODUCT WORK? COULD THE PRODUCT WORK BETTER 880 WHAT DOES THE PRODUCT DO? IS IT EASY TO USE? 000 **FUNCTION** MATERIALS Thermochromic







Kevlar



Photochromic



# Academy Year 9 Skills Cushion 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 Applique?	A Decorative Technique	A sewing technique	A type of material	A type of Felt	A design technique		
B. What is a Material Life Cycle?	The Cycle of Silkworms	The Cycle of Smart Fibres	The cycle of a product	The cycle of fibres	The cycle of a Design process		
C. What is a Design Specification?	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/		
D. What are Fibres?	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		
E. What are Smart Materials?	A material which collects water	Intelligent or responsive materials.	A washing process	A type of clever fabric	A fibre which stretches		
F. What are Decorative Techniques?	Methods of decorating the walls	Techniques to improve the design	Methods of decorating fabrics.	Decorations to add to a Christmas tree	Techniques to add to shoes		
Question	Quick Corrections (bridge learning gaps & misconceptions)						

## Career Focus - Where could this take you?





A Graphic Designer creates visual images or layouts for their clients. Graphic designers use digital software to create their unique images. A graphic designer can create visuals for a range of media, including social media posts, websites, company logos and print materials.

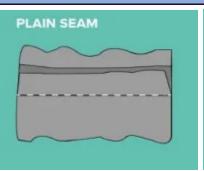
Huddersfield University offer an BA Hons degree in Graphics Design, and you will need 5 GCSE grades 5 and above and a higher-level certificate in the subject.

Salaries usually range from£45,000-£67,000

## **Challenge Activities**

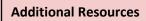


Can you create the seams Opposite? If you have a Sewing machine, it will Make it easy for you. If Not you can sew it by Hand,





#### **Topic Links**





This topic links to:

- Science- How smart fibres and created and used in end products.
- English- Subject specific Vocabulary knowledge, understanding and spelling.
- Maths- Calculating our own carbon footprint.

To further practise and develop your knowledge see: What is Smart Textiles – YouTube

<u>Technical Textile - Types and Application of Technical</u> <u>Textile - YouTube</u>

Textiles Decorative techniques - YouTube Heat Transfer Printing | textile art | 열전사염 | Basic Part III - YouTube



# **Usernames and Passwords**