Year 9 – HT5



Knowledge Organisers

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Team:

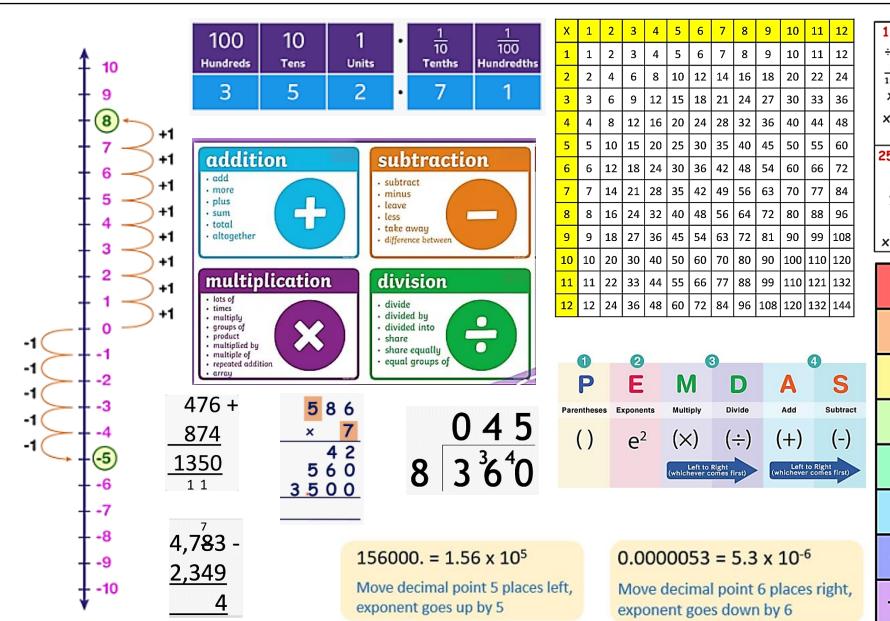


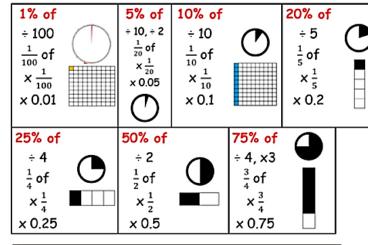
Mathematics

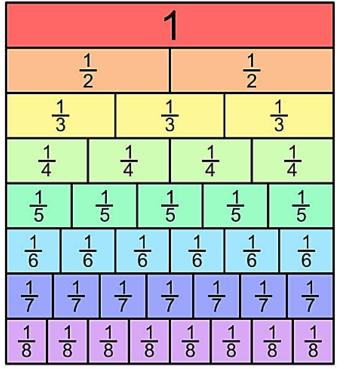
- become **fluent** in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- reason mathematically by following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



Maths: Quick Reference: Number Skills

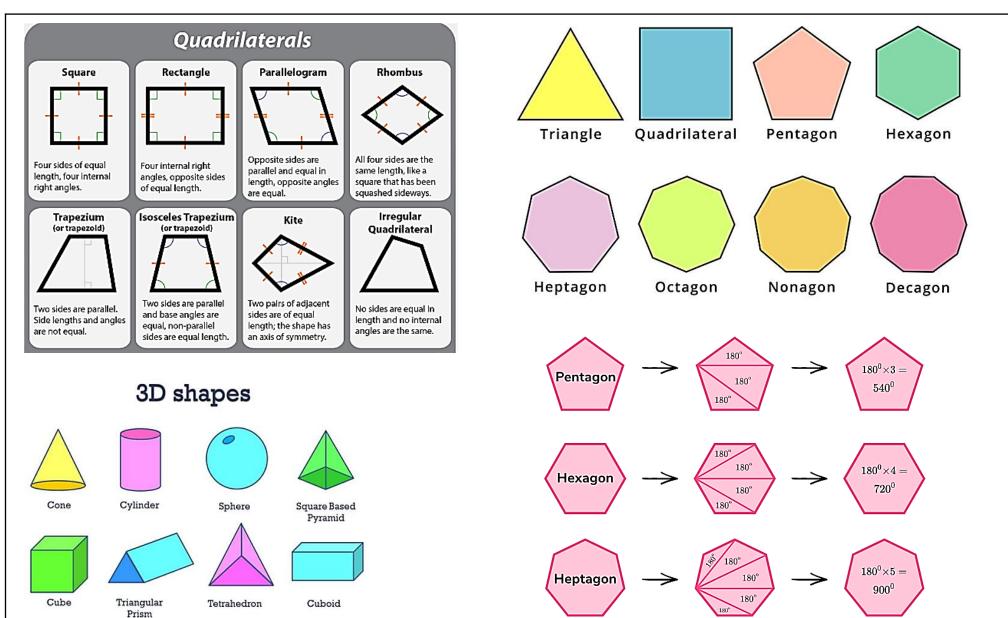


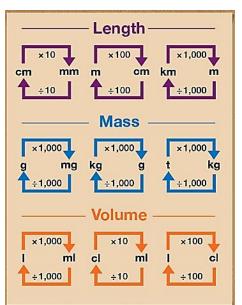






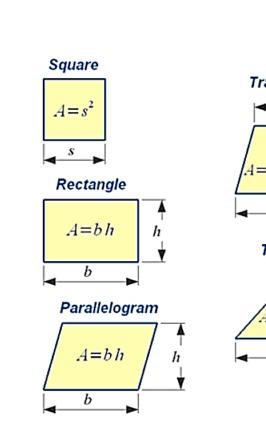
Maths: Quick Reference: Geometry & Measures

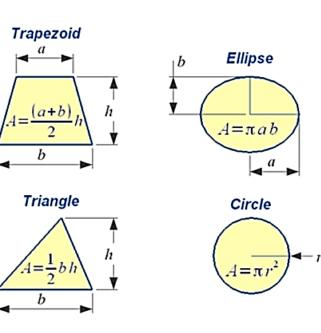






Maths: Quick Reference: Geometry (Areas & Volumes)



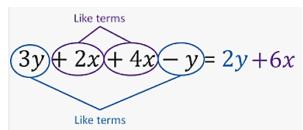


	Area and volume of 3d figures					
S.No	<u>Name</u>	Figure		Curved Surface Area	Total Surface Area	Volume
1)	<u>Cube</u>	a	a = side	4a²	6a ²	a ³
2)	<u>Cuboid</u>	h	l= length b = breadth h= height	2h(+b)	2(lb+ bh+ lh)	lxbxh
3)	<u>Sphere</u>		r = radius	4πτ²	4 π r ²	$\frac{4}{3}\pi$ r ³
4)	Solid Hemisphere		r = radius	2πr²	3πr²	$\frac{2}{3}\pi r^3$
5)	<u>Right circular</u> <u>cylinder</u>		r = radius h = height	2πrh	2πr(h+r)	πr²h
6)	Right circular cone	h	r = radius h = height l= slant height	πrl	πr(l+r)	$\frac{1}{3}\pi r^2 h$
7)	Frustum of a cone	h	r = top radius R = base radius h = height l= slant height	πl(R + r)	$\pi I(R+r) + \pi r^2 + \pi R^2$	$\frac{1}{3}\pi h(R^2+r^2+Rr)$



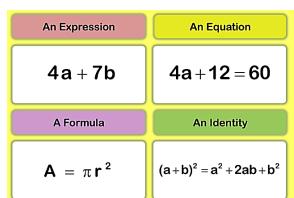
Maths: Quick Reference: Algebra Skills

Simplifying Expressions

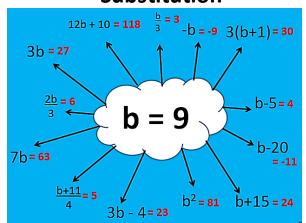


$$C \times C \times C \times C = C^4$$

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



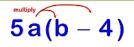
Substitution



Expanding Brackets



$$7x+14$$



5ab - 20a

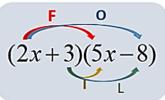
Expand & Simplify...

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

 $5x+15+6x-24$

11x - 9

FOIL Method



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

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

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

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

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

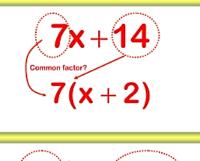
Grid Method

(2x+3)(5x-8)

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

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

Factorising Brackets



5ab – 20a 5a(b – 4)

Solving Equations

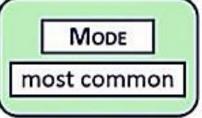
$$6x - 5 = 7$$

$$+5 = 12$$

$$\div 6 = 2$$

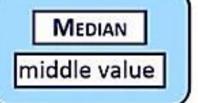


Maths: Quick Reference: Statistics





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

Median

7, 3, 4, 1, 7, 6

Arrange in order and pick the middle value

Median = (4+6)/2 = 5

Mode

7, 3, 4, 1, 7, 6

Most common number

73, 4, 1, 76

Mode = 7

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 < <i>x</i> ≤ 40	4	× 35	= 140
	25		485

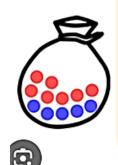
estimated mean = $485 \div 25 = 19.4$ cm



Maths: Quick Reference: Probability

Simple Probability

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



Example:

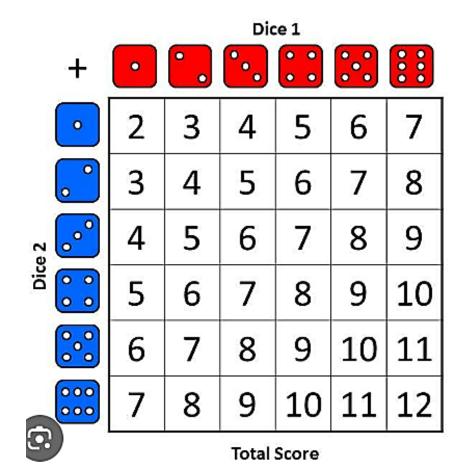
$$P(red) = \frac{7}{12}$$
 Number of red marbles

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

- > 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.



Science

- 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.



Humanities

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



Year 9: World War Two

A political leader who has total control and power

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

Describe what was the most important cause of the Second World War.

Keyword	•
Causes	

Dictator

Lebensraum

Appeasement

Anschluss

Blitzkrieg

Evacuation

Persecution

Anti-Semitism

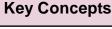
Aryan

Ghettos

Kristallnacht

Synagogues

Definition





Treaty of Versailles.

by Britain and France.

did nothing.

countries.

1939.

1933: Hitler becomes Chancellor of

1936: German soldiers occupy the

not stop this as the land belonged to

1938: Hitler took over Austria, again

1938: Hitler threatened w ar with

Sudetenland to Germany. 3 million

take the Sudetenland but made

determined to fight Hitler...

breaking the Treaty. Britain protested but

Czechoslovakia if they did not return the

Germans lived there. Britain and France

1939: Hitler broke his promise by taking

over the rest of Czechoslovakia. He then

1st September 1939: Germany invaded

started to threaten Poland. Poland w as

Hitler promise not to invade any other

agreed that Germany should be allow ed to

go. Other countries, including Britain, did

Germany. This is the start of Appeasement

Germany and builds up Germany's armed

forces which breaks one of the terms of the

Causes of WWII: C. Timeline of Hitler's Actions:

Other Causes of WWII:

Treaty of Versailles: By the 1930's many people believed that Germany had been treated too harshly in the Treaty including Britain. Germany had lost land to create new countries like Poland and Czechoslovakia and Hitler promised to Rhineland w herethey werenot supposed to overturn the Treaty of Versailles and reunite all German speaking people in a greater Germany.

> Appeasement: The policy of appeasement aimed to prevent another w ar and is linked particularly w ith the British Prime Minister Neville Chamberlain. Many believe he made a mistake by trusting Hitler. Britain and France could have stopped Germany. Opportunities, such as the Rhineland, were missed and Chamberlain even negotiated w ith Hitler in Munich to give him the Sudetenland. This prompted

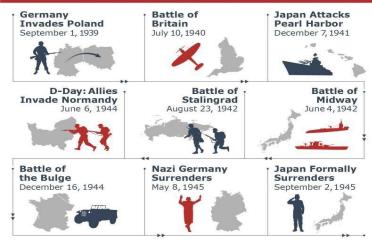
the Nazi Soviet Pact.

The Nazi Soviet Pact: Stalin felt alienated by the Munich Agreement and this encouraged him to sign the pact even though he and Hitler hated each other. It was a truce to agree to share Poland. This w ould help Hitler avoid a war on tw o fronts and give him back up from the USSR. This made him more confident about invading Poland even though Britain and France had promised to protect them.



WWII TIMELINE

Major Turning Points



What was the most important turning point of World War II? A turning point is a significant moment when events alter in a way that has an impact both in the short and long term. There are many key moments in WWII that had an impact on the outcome of the war.

Turning Point: Was the evacuation of Dunkirk seenas a triumph or disaster? Large numbers of British, French

and Belgian troops were surrounded by German soldiers in the French town Dunkirk but 338226 were saved by a fleet of British naw ships and 800 small boats. These soldiers made up of much of Britain's army went on to fight throughout the war. It gave the British public hope.

was the Battle of Britain? The Royal Air Force (RAF) successfully defended against attacks by Nazi Germany's air force: Luftwaffe. It has been described as the first military campaign fought entirelyby air forces. Hitler changed his tactics when it was clear the RAF could not be defeated, and he cancelled the invasion of Britain. The RAF went on to bomb targets in Germany.

Turning Point: How important

over a country. Communism is a type of government. In a Communist system, individual people do not own land, factories, or machinery. Instead, the Communism government or the whole community owns these things. Everyone is supposed to share the wealth

'lighteningwar'.

The reason an eventhappened.

that they create. Living Space - the land Nazis believed was required in order to grow and flourish.

wanted (appeased him) to try to avoid war. German word for 'Union' – Hitler declared an

When Britain and France gave Hitler what he

Anschluss between Germanyand Austria in 1938. German attack on enemytargets, means

Taking people away from danger. To treat someone cruelly or unfairly especially

because of race or religious or political beliefs. Hostilitytowards Jews or discrimination against

them as a group. Northern Europeans, including Germans, who

Hitler believed were the 'Master Race'. Areas of towns (usuallyrun-down) sectioned off to

separate Jews within the community. Night of Broken Glass: attacks on Jews & Jewish property that intensified persecution of Jews in Germany.

Jewish places of worship.

This was the start of WorldWar 2!

Poland, using 'Blitzkrieg' strategy. Britain and France (Poland's allies) gave notice to Germany to remove their troops from Poland. When they did not. Britain and France declared w aron 3rd September

Year 9: World War Two

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

 Describe what was the most important cause of the Second World War.

Key Concepts



The Holocaust: What is it? The mass murder of Jews under the German Nazi regime during the period 1939-1945. More than 6 million European Jews, as well as members of other persecuted groups, were murdered at concentration camps such as Auschwitz. Holocaust means destruction or slaughter on a mass scale, especially by fire. Many Jews use the term 'Shoah' which comes from the Hebrew meaning catastrophe.

A History of Anti-Semitism

The Nazis did not invent hatred of Jew s or anti-Semitism.

Jew s were persecuted in the Middle Ages for religious reasons. In 1190, 150 Jew s were massacred in York and all Jew s were expelled in 1290.

In many European countries, Jew sw ere blamed for spreading the Black Death and w ere banned from ow ning land. In tow ns they w ere usually confined to certain areas—ghettos and subject to restrictions, such as curfew s.

Martin Luther, w ho started the Protestant Ref ormation, called for Jew ish synagogues to be destroyed.

In the 1800s, millions of Jew sfled the Russian Empire because of pogroms (organised massacre) against them. Immigrants often ended up in Britain or the USA.

The Ghettos:

Ghettos w ere usually in the most run-down area of a city and w ere used to segregate the Jew s. By mid-1941, nearly all Jew s in occupied Poland had been forced into these overcrow ded districts.

In the Warsaw ghetto, by far the largest, 490,000 Jew s and a few hundred Roma and Sinti (Gypsies) struggled to survive. In larger centres, ghettos w ere shut in by w alls, fences or barbed w ire. No one could leave or enter w ithout a special permit.

Jew s received little food and the ghettos w ere overcrow ded. Diseases such as typhus and tuberculosis w ere rife. It is estimated that 500,000 Jew s died in the ghettos of disease and starvation. Many also perished in nearby slave labour camps, w here conditions w ere even w orse.



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Nazis Persecution of the Jews:

Hitler's dislike of the Jew swas based on many things including his experiences in Vienna as a youth, but mainly the economy. He blamed them for making Germany weak and for the defeat of World War One.

1933: From 1st Aprilthe Nazi Party began an official Boycott of all Jew ish shops, businesses, doctors and law yers. The SA w ere used to paint Jew ish stars or the w ord 'Jude' (Jew) outside Jew ish businesses and they stood outside holding banners to discourage people from going inside.

Jew s w ere also banned from government jobs and Jew ish civil servants and teachers w ere sacked.

1935: The Nuremberg Lawswere passed and stated only those of German blood could be German citizens. Jews became German 'subjects', not citizens and marriage between Jews and Aryanswas banned. Placards saying 'Jews not wanted here' were displayed in resorts, public buildings, restaurants and cafes.

9th November 1938: Kristallnacht (Night of Broken Glass) - gangs smashed and burned Jew ish homes, businesses & synagogues all over Germany and attacked Jew s. Many Jew swerekilled and 20,000 arrested and sent to concentration camps.

1939-41: Millions of Jew sliving in Poland & the USSR came under Nazi control. Many were shot or kept in Ghettos.

1942: Leading Nazis agreed upon a 'Final Solution' at the Wannsee Conference to the "Jew ish problem". Death camps would be used to eradicate Jew sfrom Europe.

Concentration Camps:

The Nazis had been using concentration camps since 1933 as extended prisons or work camps, of ten for political opponents, but thousands of Jews were taken to camps like Dachau following Kristallnacht.

Germany's invasions of Poland & The Soviet Union meant that there w ere now millions more Jew sunder Nazi control. Initially, groups of SS troops – 'Einsatzgruppen', murdered Jew s by shooting.

Follow ing the decision at the Wannsee Conference in 1942 to eradicate all Jew s, death camps w ere built. The death camps used gas chambers to murder Jew s and others on an industrial scale.

When Jew s arrived from all over Europe, 'selection' happened. Women w ith young children, the Elderly and the unfit w ere sent straight to the gas chambers. The Jew s were told they w ere being taken to 'show ers' but the 'show ers' w ere in fact gas chambers w hich used a chemical called Zyklon-B. Usually, people 14 years of age and upw ards were sent to the camp if they were fit and healthy. They would receive show ers to clean them up. The show ers were either really hot or extremely cold. They would then be given a uniform, tattooed with a number and have their hair shaved.

Sometimes, horrifying medical experiments were carried out on camp inmates, for example, by Dr Mengele at Auschwitz whow as fascinated in studying twins.

All of the Jew s'personal belongings: gold, silver, spectacles, clothes, even hair w as kept to be re-used.

Even in w ork camps, deaths through beatings, lack of food and disease w ere common. It is w idely accepted that as many as 6 million. Jew swere murdered during the Holocaust.

Other groups, such as Russian prisoners, homosexuals, communists, gypsies and the mentally and physically disabled were also victims of the Naziregime.

As the map show s, most death camps were in Poland rather than Germany, and Poles made up half of the victims. Jew s from nearly all European countries were victims during World War Two.







Academy Year 9: World War Two

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

Describe what was the most important cause of the Second World War.

Retrieval Practice

What consequences did Germany face

Why did Germany surrender? Tell me one

w hy w as it a turning point of WWII?

after the Battle of Stalingrad?



Questions	Answers
Tell me three minority groups persecuted by the Nazis:	Jew ish, disabled and homosexuals
What date w as Kristallnacht and w hat happened?	8th November 1938 w hen gangs smashed and burned Jew ish homes, businesses & synagogues all over Germany and attacked Jew s. Many Jew s w ere killed and 20,000 arrested and sent to concentration camps.
Who w as Anne Frank and w hy is she significant w hen studying the Holocaust?	Anne Frank w as a German girl and Jew ish victim of the Holocaust w ho is famous for keeping a diary of her experiences. Anne and her family w entinto hiding for two years to avoid Nazi persecution
Explain tw o causes of World War Tw o (short or long term):	Treaty of Versailles – Many believed Germany w as too harshly punished Appeasement- Many believe Chamberlain he made a mistake by trusting Hitler. Britain and France could have stopped Germany.
What w as the Nazi Soviet pact? Explain w ith examples.	A pact betw een Hitler and Stalin. It was a truce to agree to share Poland. This would help Hitler avoid a war on two fronts and give him back up from the USSR.
Why did Britain and France eventually declare w ar on Germany?	When Germany invaded Poland
Was Dunkirk a triumph or disaster? Explain your answ er.	A disaster as large numbers of Franch, British and Belgium troops died. A success as 338,226 troops w ere saved
What happened at the Battle of Britain and	The Royal Air Force (RAF) successfully defended Britain against attacks by

Germany

confidence.

Soviets.

Nazi Germany's air force the Luftw affe. Britain could now bomb targets

It was the first failure of the warto be publicly acknowledged by Hitler and

Soviet forces neared Adolf Hitler's command bunker in central Berlin. On

April 30, 1945, Hitler committed suicide. Within days, Berlin fell to the

put Hitler and the Axis pow ers on the defensive boosting Russian

Career Focus - Where could this take you?





I am a Screenwriter: My job is to write and develop screenplays for film or TV drama. I do this either based on an original idea, by adapting an existing story into a screenplay or by joining an existing project (if on TV). I will also use events that have happened in History and dramatise it while including historical facts. I have to make sure I have researched the area I want to focus on and plan my ideas, plots and characters.

Challenge Activities



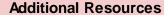
- 1. Write a newspaper article about one of the key battles in World War Two. You need to research the battles and decide which one you want to write about- ensure you know enough to make a comparison to at least one other battle.
- 2. Write a script to use in a movie or play about one of the key battles of World War Two or about the Holocaust. Many movies have been produced which use historical fiction (incorporating some historical facts with a fictional storyline).
- 3. Produce a timeline which can be used as a display piece of key events in World War Two. This should include dates, key individuals, the event (what happened) and pictures to match.

Topic Links



To further practise and develop your knowledge see: https://www.familysearch.org/en/blog/world-war-2-facts

battles





This topic links to other humanities topics such as:

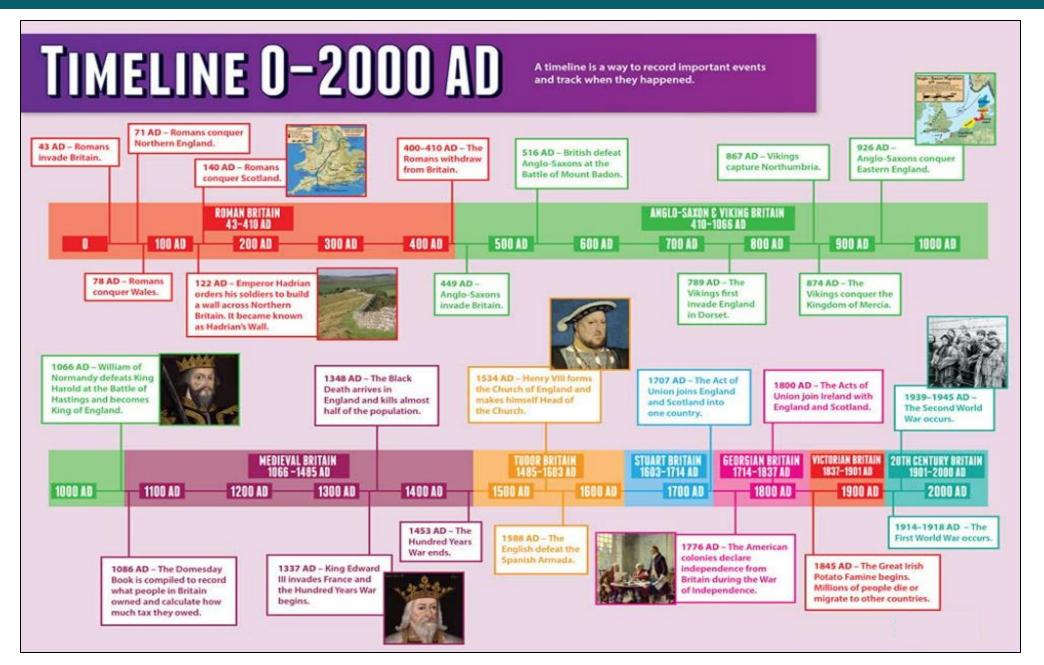
- From Democracy to Dictatorship
- The end of World War Two
- Britain's Homefront
- Judaism

https://www.voutube.com/watch?app=desktop&v=8a8fgGpHg

https://www.britannica.com/studv/world-war-ii-maior-events-

https://www.bbc.co.uk/bitesize/topics/zk94ixs/articles/z6vff82

Timeline







Academy Year 9 Urban Issues and Challenges

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

Explain the reasons for urban growth on a global scale

Describe the global distribution of megacities

Explain why Rio is such an important city

Explain the challenges in Rio and how these can be managed

Keyword	Definition
Formal economy	The type of employment where people receive a regular wage
Informal economy	Employment outside the knowledge of the government
Megacity	City with a population of over 10 million
Migration	The movement of people
Natural increase	Where the birth rate is higher than the death rate
Recession	A period of temporary economic decline during which trade and industrial activity are reduced
Pull factor	Reasons attracting people to an area
Push Factor	Reasons forcing people to leave an area
Rural to urban migration	Movement of people from the countryside to a city
Unemployment	No jobs
Urbanisation	An increasing percentage of population living in towns and cities

Key Concepts



Urbanisation

This is growing because of natural increase (birth rate minus death rate and migration.

Urbanisation takes place at different times and speeds.

The UK was one of the first countries to become urbanised.

(subjection of the contract of

In 2020 around 56% of the World's population lived in urban areas. This

Burdenimiesation 68% by 2050.

This is a cities.

It is caused by push and pull factors.

Push factors - force people out of the country Pull factors - attract people to a city





Year 9 Urban Issues and Challenges

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

Explain the reasons for urban growth on a global scale

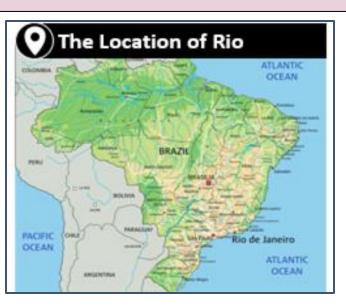
Describe the global distribution of megacities

Explain why Rio is such an important city

Explain the challenges in Rio and how these can be managed

Key Concepts





Rio de Janeiro (Rio) is Brazil's second most populated city after Sao Paulo with a population of 6.5 million, and a further 12.5 million in the urban area. Rio is in the southeast of Brazil on the

Atlantic coast. Rio became an important port and was the

Regional:

- Rio is important in providing hospitals, schools and universities and provides employment, leisure and recreation opportunities
- A thriving arts and culture scene.
- The city is a major transport hub with an airport and important docks providing raw materials for local and regional industries exporting products



Rio's Importance

National:

- Brazil's oil, mining and telecommunications companies have their headquarters in Rio.
- Several of the country's universities and research and development institutions area based in Rio.
- Rio is a major manufacturing centre specialising in chemicals, processed food, clothing and pharmaceuticals.
- The port is important for the export of coffee, sugar and iron ore.
- It is Brazil's second most important industrial area and produces 5% of the country's gross domestic product (GDP).
- Major entertainment and media organisations are based in Rio.

International:

- Rio has hosted a number of global sporting events for example the 2016 Olympic and Paralympic Games, and the 2014 World Cup
- Tourists from around the world are drawn to Rio to see attractions such as the Statue of Christ the Redeemer and participate in colourful festivals and see the beaches
- The city is an international centre for industry and finance.
- It has five ports and three airports, which make it a major international transport hub.



Year 9 Urban Issues and Challenges

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

Explain the reasons for urban growth on a global scale

Describe the global distribution of megacities

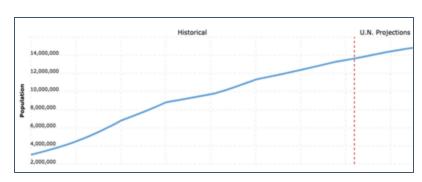
Explain why Rio is such an important city

Explain the challenges in Rio and how these can be managed

Key Concepts







Rio's population is growing rapidly.

Since the 1950s, the population of the city has more than trebled. As a result, Rio de Janeiro has an estimated 2020 population of 6.48 million.

The metro population (surrounding area under the same local government) of Rio de Janeiro is much larger, however, with 13.5 million residents in 2021

Reasons for Rio's growth

Rural to Urban Migration:

As Rio has developed, it has attracted migrants from within Brazil and from abroad. One of the largest groups of migrants is the Portuguese people. Rio is the largest Portuguese city outside of Portugal. Rural-to-urban migration has been a significant cause of population growth. Migrants are pulled to the city because of better education, employment opportunities, and improved living conditions. On the other hand, migrants have been pushed from rural areas due to mechanisation (use of machinery) on farms, poor living conditions and the lack of employment opportunities. More recently, Rio has attracted migrants from South Korea and China who seek business opportunities.

Natural Increase:

The high migration rate into Die has led to a youthful



Year 9 Urban Issues and Challenges

The aims of the sequence of learning are to ensure that all students: Explain the reasons for urban growth on a global scale

Describe the global distribution of megacities

Explain why Rio is such an important city

Explain the challenges in Rio and how these can be managed

Retrieval Practice			
Questions	Answers		
What is urbanisation?	An increasing percentage of population living in towns and cities		
What % of the world live in urban areas?	56%		
Give 2 examples of push factors	Lack of jobs and lack of facilities		
Give 2 examples of pull factors	Better health care and a better standard of living		
Where is Rio located?	Rio is located in Brazil in the southern hemisphere, it is located next to the Atlantic Ocean		
Why is Rio regionally important?	The city is a major transport hub with an airport and important docks		
Why is Rio internationally important?	The 2016 Olympic and Paralympic Games Games, and the 2014 World Cup, were held there		
How many people live in the area around Rio?	13.5 million		
Name 2 countries where people have migrated to Rio from?	Portugal and China		

Career Focus - Where could this take you?





I am an Urban Planner

We plan for houses and renewable energy generation sites like wind farms, redesign urban spaces and develop parks, woodlands and waterways in a sustainable way. We also prepare and make decisions about planning applications, plans and proposals we research and assess technical information, data and surveys to advise on planning rules.

Challenge Activities



- Create a model of a typical home found in a favela add labels to describe the features of the house
- Write a news report on the living conditions and lives of residents in Rio's favelas and explain what could be done by the authorities to improve their situation.
- Create a poster to show the location of Rio in the world and some of the images of this Megacity (these could be human and physical features and even some issues it faces)

Topic Links



Additional Resources



This topic links to

- Population
- Development

Favelas

To further practise and develop your knowledge see:

F



Urbanisation





Newsome Academy Everyone Exceptional Everyday Geography

Key Concepts: World – Countries and Oceans









Newsome Academy Year 9 The Holocaust

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

- Describe how the Jews were persecuted in Germany
- Explain the impact of the Holocaust on survivors

Keyword	Definition	Key Concepts
Antisemitism	Hatred towards Jewish people	<u>Anti-Semitism</u> is a certain perception of Jews, which may be expressed as hatred toward Jews. Rhetorical and physical manifestations of antisemitism are directed toward Jewish or non-Jewish individuals and/or their property, toward Jewish community institutions and religious facilities.
Boycotts	Refusing to buy products from a business, country or group of people	Origin – How did antisemitism start? Jewish people have been discriminated against for more than 2,000 years. Often it has been because of their religious beliefs. In ancient times some people worshipped many gods. They did not trust the Jewish people because the Jews did not follow the same gods. The Jewish people worship only one God. Later, the new religion of Christianity developed from the religion of Judaism. The new religion was based on the teachings of Jesus Christ. He and his followers were Jewish, but the two religions became separate because of different beliefs. The Christians though t that
Ghettos	A poor urban area mainly occupied by minority groups	Jesus was a saviour sent by God. The Jewish people did not believe that. At the time, the Roman Empire controlled the land where both religions began. The Romans destroyed the Jewish Temple in Jerusalem and forced the Jews to leave. Eventually, the Roman rule rs accepted Christianity. The empire controlled many lands, so the religion of Christianity spread. The Roman leaders were powerful. They tried to turn Christians against the Jewish people. People treated the Jews poorly. Anti-Jewish laws in ancient Rome separated the Jews and limited their freedoms. Jewish people moved to many parts of Europe, but in some places they were forced to live in areas called ghettos. They were forced to leave other areas altogether. People made up myths about Jewish people so others would not trust them. Anti-Semitism in the Russian Empire When they were forced out of parts of western Europe, many Jews moved to Poland and Russia. Toward the end of the 1800s, howe ver,
Persecution	Punishment or harassment usually of a severe nature based on race, religion, or political opinion in one's country of origin.	they were mistreated there as well. The Russian Empire wrote laws to take away land from the Jews. Jewish people had to move to a different part of Russia, away from others. Many Jewish people could no longer work. Mobs of people attacked the Jews. These vident attacks were called pogroms. Anti-Semitism in Modern Europe In the 1800s people in Europe began to think of Jewish people as a separate race. Racism toward Jews helped a political party in Germany come to power in 1933. The Nazi Party was led by Adolf Hitler. The party spread hateful misinformation about Jewish people.
Concentration Camps	A place in which large numbers of people, especially political prisoners or members of persecuted minorities, are deliberately imprisoned in a relatively small area with inadequate facilities, sometimes to provide forced labour or to await mass execution	They ordered boycotts of Jewish-owned businesses. They said that the Aryan race was superior. The Aryans were white people from northern Europe. The Nazis wanted to get rid of all Jewish people. They collected Jewish people from throughout Europe. They forced the Jews into concentration camps to work as slaves. Many Jews were killed right away. This time is called the Holocaust. Nazi Germany and those who helped the Nazis killed about 6 million Jews. The Nazis were defeated in World War II, which ended in 1945. Many places in the world did not express anti-Semitism any more. Jewish people became part of the culture. But in some places, anti-Jewish acts still happened. Anti-Semitism Today Today many people believe that anti-Semitism is wrong. Unfortunately, anti-Semitic acts still happen. For example, people paint anti-Jewish symbols on buildings and Jewish graves. Others spread misinformation. They say Jewish people have too much control of the media, the economy, and the government. Some people even say that the Holocaust never happened.



Year 9: The Holocaust

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

- Describe how the Jews were persecuted in Germany
- Explain the impact of the Holocaust on survivors

Key Concepts



The Holocaust: What is it? The mass murder of Jews under the German Nazi regime during the period 1939 - 1945. More than 6 million European Jews, as well as members of other persecuted groups, were murdered at concentration camps such as Auschwitz. Holocaust means destruction or slaughter on a mass scale, especially by fire. Many Jews use the term 'Shoah' which comes from the Hebrew meaning catastrophe.

A History of Anti-Semitism

The Nazis did not invent hatred of Jews or anti-Semitism.

Jews were persecuted in the Middle Ages for religious reasons. In 1190, 150 Jews were massacred in York and all Jews were expelled in 1290.

In many European countries, Jews were blamed for spreading the Black Death and were banned from owning land. In towns they were usually confined to certain areas—ghettos and subject to restrictions, such as curfews.

Martin Luther, who started the Protestant Reformation, called for Jewish synagogues to be destroyed.

In the 1800s, millions of Jews fled the Russian Empire because of pogroms (organised massacre) against them. Immigrants often ended up in Britain or the USA.

The Ghettos:

Ghettos were usually in the most run-down area of a city and were used to segregate the Jews. By mid-1941, nearly all Jews in occupied Poland had been forced into these overcrowded districts.

In the Warsaw ghetto, by far the largest, 490,000 Jews and a few hundred Roma and Sinti (Gypsies) struggled to survive. In larger centres, ghettos were shut in by walls, fences or barbed wire. No one could leave or enter without a special permit.

Jews received little food and the ghettos were overcrowded. Diseases such as typhus and tuberculosis were rife. It is estimated that 500,000 Jews died in the ghettos of disease and starvation. Many also perished in nearby slave labour camps, where conditions were even worse.



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Nazis Persecution of the Jews:

Hitler's dislike of the Jews was based on many things including his experiences in Vienna as a youth, but mainly the economy. He blamed them for making Germany weak and for the defeat of World War One.

1933: From 1st April the Nazi Party began an official Boycott of all Jewish shops, businesses, doctors and lawyers. The SA were used to paint Jewishstars or the word 'Jude' (Jew) outside Jewish businesses and they stood outside holding banners to discourage people from going inside. Jews were also banned from government jobs and Jewish civil servants and teachers were sacked.

1935: The Nuremberg Laws were passed and stated only those of German blood could be German citizens. Jews became German 'subjects', not citizens and marriage between Jews and Aryans was banned. Placards saying 'Jews not wanted here' were displayed in resorts, public buildings, restaurants and cafes.

9th November 1938: Kristallnacht (Night of Broken Glass) - gangs smashed and burned Jewish homes, businesses & synagogues all over Germany and attacked Jews. Many Jews were killed and 20,000 arrested and sent to concentration camps.

1939-41: Millions of Jews living in Poland & the USSR came under Nazi control. Many were shot or kept in Ghettos.

1942: Leading Nazis agreed upon a 'Final Solution' at the Wannsee Conference to the "Jewish problem". Death camps would be used to eradicate Jews from Europe.

Concentration Camps:

The Nazis had been using concentration camps since 1933 as extended prisons or work camps, often for political opponents, but thousands of Jews were taken to camps like Dachau following Kristallnacht.

Germany's invasions of Poland & The Soviet Union meant that there were now millions more Jews under Nazi control. Initially, groups of SStroops — 'Einsatzgruppen', murdered Jews by shooting.

Following the decision at the Wannsee Conference in 1942 to eradicate all Jews, death camps were built. The death camps used gas chambers to murder Jews and others on an industrial scale.

When Jews arrived from all over Europe, 'selection' happened. Women with young children, the Elderly and the unfit were sent straight to the gas chambers. The Jews were told they were being taken to 'showers' but the 'showers' were in fact gas chambers which used a chemical called Zyklon-B. Usually, people 14 years of age and upwards were sent to the camp if they were fit and healthy. They would receive showers to clean them up. The showers were either really hot or extremely cold. They would then be given a uniform, tattooed with a number and have their hair shaved.

Sometimes, horrifying medical experiments were carried out on camp inmates, for example, by Dr Mengele at Auschwitz who was fascinated in studying twins.

All of the Jews' personal belongings: gold, silver, spectacles, clothes, even hair was kept to be re-used. Even in work camps, deaths through beatings, lack of food and disease were common. It is widely accepted that as many as 6 million Jews were murdered during the Holocaust.

Other groups, such as Russianprisoners, homosexuals, communists, gypsies and the mentally and physically disabled were also victims of the Nazi regime.

As the map shows, most death camps were in Poland rather than Germany, and Poles made up half of the victims. Jews from nearly all European countries were victims during World War Two.







What is Antisemitism?

What does persecution

mean?

Year 9 The Holocaust

Hatred towards Jewish people

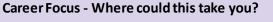
The aims of the sequence of learning are to ensure that all students:

- Describe how the Jews were persecuted in Germany
 - Explain the impact of the Holocaust on survivors

Retrieval Practice	
Questions	Answers

Answers

- Punishment or harassment usually of a severe nature based on race, religion, or political opinion in one's country of origin.
- Where were some of Some Jews were forced by the Nazis to live the Jewish people in Ghettos. forced to live?
- What did Hitler blame Making Germany weak and losing World War the Jewish people for?





I am a Historical researcher. I study past events, people, policies and documents to gain an in-dept understanding of their significance and impact on modern and future societies. Examining primary and secondary sources is an essential part of a historical researcher, as well as knowing and understanding peoples' beliefs and views.

Challenge Activities

- Explain in your own words, the history of Judaism that led to antisemitic attacks.
- Research how the holocaust has affected many Jews in the world today.

What happened in Kristallnacht (Night of Broken Glass) - gangs Germany on 9th smashed and burned Jewish homes, busines November 1938 ses & synagogues all over Germany and attacked Jews. Many Jews were killed and 2 0.000 arrested and sent to concentration camps.

Which other groups of Russian prisoners, homosexuals, communists people were persecuted , gypsies and the mentally and physically disa in Nazi Germany? bled



Additional Resources

This topic links to other RE topics such as Judaism

This topic links with other subjects such as:

- History
- We will also be practising how to
 - Argue a point and practise our Voice 21
 - Participate in debates Write PEE sentences/how to answer exam questions

https://www.bbc.co.uk/bitesize/topics/znwhfg8/articles/z4vvjhv https://www.bbc.co.uk/bitesize/guides/zf3yb82/revision/6

To further practise and develop your knowledge see:

https://www.bbc.co.uk/newsround/29363650

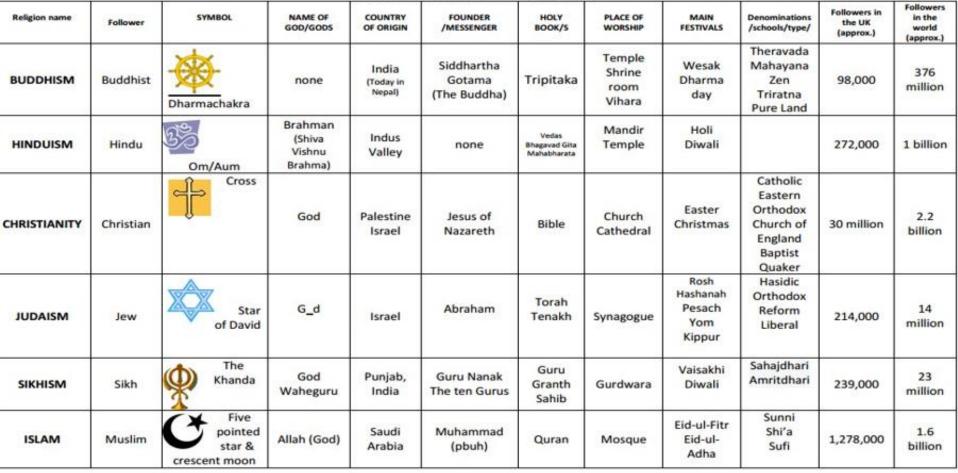




Newsome Academy Religious Studies

Key Concepts

SIX WORLD RELIGIONS (spellings vary)



Theist = Someone that believes in God

Atheist = Someone that doesn't believe in God

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

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

Timeline of religions (all dates approximate)

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





MFL

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



Year 9 Le Meilleur des Mondes

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

- •Express the main threats to the environment
- ••Discusseating choices using more complex opinion phrases.
- Negate sentences with a variety of expressions

Keyword	Definition	Essential Vocabulary and Grammar.							
Qu'est-ce que tu manges?	What do you eat?	Qu'est-ce que tu manges?			Essential Phonics.				
Pourquoi? Pourquoi pas?	Why? Why not?	Je mange I eat Je bois I drink		Silent final consonant – shhh!					
Est-ce <u>que tu manges</u> de la viande?	Do you eat <u>meat</u> ?	du fromage du pain / d	u riz	bre	eese / milk ead / rice		Un fruit	Je bois	
Est-ce que tu es pour ou contre le véganisme?	Are you for or against veganism?	de la soupe de la viande de l'eau		me wa	soup meat water			H	*
Personellement je pense que manger des animaux c'est normal.	Personally I think that eating animals is normal.	des sandwichs sandwiches			des frites / des haricots chips / beans des légumes vegetables des pommes de terre potatoes Qu'est-ce qu'il faut faire pour aidel			•	
Quel sont les dangers pour les animaux?	What are the dangers for the animals?	un fruit un jus de fruits		a fr	a piece of fruit a fruit juice		Il faut ramasser les déchets. recycler le papier et les	ts. pic	nust k up litter. cycle paper and bottles.
Le tigre est menacé par la	<u>Tigers</u> are threatened by	Lett-ce que tu manges de la viande? Je ne mange jamais I never eat meat / fish de viande / de poisson.		bouteilles. aller au collège à pie	ed ou ao	to school on foot or by			
chasse.	hunting.			I nevei	I never eat meat / fish		à vélo. bike.		
Qu'est-ce qu'il faut faire pour protéger la planète?	What should we do to protect the planet?	Je ne bois pa	-	. I don't	drink <u>milk.</u>		Il ne faut pas manger trop de via		n must not eat too much meat.
Il faut <u>ramsser les déchets</u>	You must <u>pick up litter</u> and <u>recycle.</u>	Est-ce que tu e	s pour ou	Are yo	u for or agair	ıst	utiliser trop d'énergie. use too mu		use too much energy.
et <u>recycler</u> .	-	contre le végan	isme?	vegani	sm?		Qu'est-ce qu'on a f	fait pour aid	der la planète?
Qu'est-ce qu'il ne faut pas faire?	What shouldn't we do?	La production d	e viande,	Produc	ing meat is b	ad for	J'ai ramassé des déch	1	ked up litter.
Il ne faut pas <u>utiliser trop</u>	You mustn't <u>use too much</u>	c'est mauvais p	c'est mauvais pour		the environment.		J'ai recyclé du papier of plastique.	et du <i>Trec</i>	ycled paper and plastic.
d'énergie.	energy.						J'ai acheté des produi		ight organic products.
Qu'est-ce qu'on a fait pour aider	What have you done to help	Manger des ani c'est cruel.	maux,	Eating	animals is cru	iei.	Je suis allé(e) au collè		nt to school on foot.
la planète? J'ai <u>recyclé du papier</u> .	the planet? I have <u>recycled paper.</u>	Manger des ani c'est normal.	maux,	Eating	animals is no	rmal.	On a utilisé moins d'ér On a organisé une	Wed	organised an anti-plastic
							campagne anti-plas	stique. co	ampaign.



Year 9 Le Meilleur des Mondes

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

- Discuss eating choices using more complex opinion phrases.
- Negate sentences with a variety of expressions

Career Focus - Where could this take you?





We work for the European Commission. We work on new policies for Europe and our work has an impact on European laws and the decisions made in the European Council. There are 24 official and working languages spoken.



Challenge Activities

Make a poster for an environmental campaign at your school. Include what you will be doing, when and where. Don't forget to add the why!

Complete the activities on Sentence Builders.

Il faut ramasser les déchets et recycler.

J'ai **recyclé du papier**.et on a **organisé**

une campagne anti-plastique.

Topic Links

Additional Resources

la planète?

This topic links to: Food and drink.

The past tense.

- Giving detailed opinions.
- Where I live.

knowledge see: · Sentence Builders

To further practise and develop your

- · Active learn

Retrieval Practice Questions Answers Je mange **du pain avec du fromage** et je bois Qu'est-ce que tu manges? du jus d'orange. Est-ce que tu manges de la Non, mais je mange du poisson. X viande? Oui, j'aime manger de la viande.✓ Non, parce que je suis végétarien. X Est-ce que tu es pour ou contre le Personellement, je pense que manger des véganisme? animaux c'est normal. ✓ Selon moi, je crois que manger des animaux c'est cruel. X Quel sont les dangers pour les À mon avis <u>l'ours polaire</u> est menacé animaux? par le changement climatique. C'est terrible. Qu'est-ce qu'il faut faire pour protéger la planète? Il ne faut pas utiliser trop d'énergie. Qu'est-ce qu'il ne faut pas faire? Qu'est-ce qu'on a fait pour aider

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

VERBS USING ÊTRE e.g. je suis allé(e)

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

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 ais	finiss ais	vend ais
tu	jou ais	finiss ais	vend ais
il/elle/on	jou ait	finiss ait	vend ait
nous	joui ons	finissions	vend ions
vous	joui ez	finiss iez	vend iez
ils/elles	jou aient	finissaient	vend aient

PRESENT TENSE ("does/is doing")

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

	jouer	finir	vendre
je	jou e	fin is	vend s
tu	jou es	fin is	vend s
il/elle/on	jou e	fin it	vend
nous	jou ons	fin issons	vend ons
vous	jou ez	fin issez	vend ez
ils/elles	jou ent	fin issent	vend ent

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	eic.

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	vendr g
je	jouer ai	finir ai	vendr ai
tu	jouer as	finiras	vendr as
il/elle/on	jouer a	finira	vendr a
nous	jouer ons	finirons	vendrons
vous	jouer ez	finirez	vendr ez
ils/elles	jouer ont	finir ont	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	vendr <mark>∉</mark>
je	jouer ais	finirais	vendr ais
tu	jouer ais	finirais	vendr ais
il/elle/on	jouer ait	finir ait	vendr ait
nous	joueri ons	finirions	vendrions
vous	joueri ez	finir iez	vendriez
ils/elles	jouer aient	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)
- ne...plus (no longer, not anymore) With il y a (there is/are), the negatives go around y a and ne shortens to n':

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

There is/ are Il y a Je vois / On peut voir I see / We can see La photo montre The photo shows

Le scène se passe The scene takes place

2nd step - Opinions

Hypothesis:

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

Ça semble être It seems to be

Locating:

Au premier plan In the foreground À l'arrière plan In the background À gauche/ à droite To the left/to the right

Près de.. Close to

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

Au milieu...

Décrire une

photo

Say what you think about the photo

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

Il me semble que... Je pense 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
 À l'école Dans la rue À la montagne Au bord de mer À l'intérieur À l'extérieur En ville 	Weather Il fait beau Il pleut Il y a du soleil Moment Le soir Le midi Pendant	 Une famille Des enfants Beaucoup de monde Quelques personnes Des arbres Des bâtiments 	• Ils/Elles sont en train de: parler, manger, faire la fête, rigoler, s'amuser, recycler, apprendre, faire du sport, jouer, bronzer

J'aime cette photo

- 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...

Je n'aime 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...



Computing

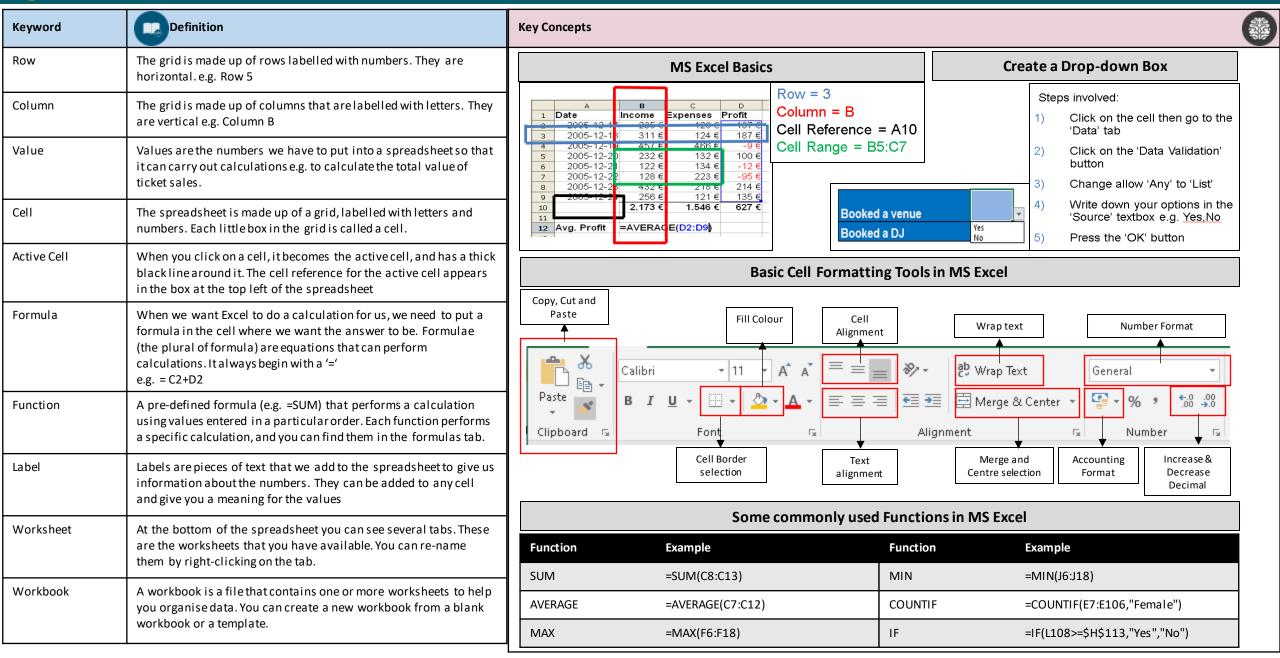
- > can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- > can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems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



Unit 9.3: Spreadsheet Basics

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

- Demonstrate knowledge of the MS Excel interface by naming the main sections of the interface
 - Demonstrate knowledge of using MS Excel by describing the use of a range of different tools, features, formulae and functions
- Apply knowledge of using MS Excel through the accurate completion of a range of spreadsheet tasks
- Apply knowledge from this unit to accurately describe some keywords





Unit 9.3: Spreadsheet Basics

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- Apply knowledge of using MS Excel through the accurate completion of a range of spreadsheet tasks
- Apply knowledge from this unit to accurately describe some keywords

Retrieval Practice

Questions

Range"?

Validation'?

password?

function in MS Excel?



Ans	wers
-----	------

How can you find the 'Row' and 'Column' details on a MS Excel works heet?

terms 'Cell Reference' and 'Cell

What is the difference between the

A cell reference is the combination of column letter(s) and row number(s) that identify a cell (or range of cells) on a worksheet e.g. A5

A cell range is a collection of selected cells. This range is usually symmetrical

(s quare), but can exist of separate cells as well. A cell range can be also be referred

Rows are labelled with numbers and run horizontally on each sheet .e.g. 5

Columns are labelled with letters and run vertically on each sheet .e.g. A

- to in a formula e.g. =COUNTIF(E7:E106,"Female")

 What do you need to type to start

 You will need to find the formula bar on the work
- What do you need to type to start creating a newformulae or function on (equals) symbol to begin the formula or function e.g. =SUM(B2:B5)
- MS Excel?

 Explain the difference between the use

of a =COUNTIF and =COUNTA function

In MS Excel, what is meant by 'Data

- The COUNTIF function is used to find a particular criteria within a range of cells e.g. =COUNTIF(E7:E106,"Female")

 The COUNTA function is used to count the number of non-blank cells in a range of cells e.g. =COUNTA(D7:D106)
- Data Validation works by restricting the type of data or the values that users can enter into a cell to help control what a user can enter into a cell. Types of data validation can include the creation of Drop Down boxes, Input Messages and Error Messages.
- How can you make it easier to
 You can break down the function into three parts:
 remember how to structure an IF

 1. The logical test What are you checking?
 - Part 2: "Value iftrue" What value the cells hould display if what you are checking is true
 - 3. Part 3: "Value if false" What value the cell should display if what you are checking is true
 - e.g.=IF(B2>C4,"Yes", "No")

How do you protect a workbook so it can not be viewed without entering a [Re-enter password]

Career Focus - Where could this take you?





In my role as a **Data Analyst** I translate numbers and data into information that can be used to solve problems or track how well a company is doing in range of different sectors. You need to be able to pay attention to detail, communicate well and be highly organised to perform well in this role.

Challenge Activities



- 1. Use one of the datasets from the unit tasks (or download a dataset from the internet) to create an interactive Dashboard to help you visually represent key data and perform a quick analysis of the data
- 2. Create a tutorial video or document to explain the different ways that you are able to format data using MS Excel. Make sure it includes a step-by-step breakdown of each formatting tool.
- 3. Create as hort vlog about the types of careers you could get into with the skills you have developed in this unit. Explain what you would need to study at college and university to pursue these career paths.

Topic Links



Additional Resources



This topic links to:

Computing Curriculum:

- 3.1 Design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systems
- Other subject links:
- Art and design (creative design, colour schemes etc..)
- Maths (logical approach, formulae and analysing data)

- To further practise and develop your knowledge see:
- MS Excel for beginners:
- https://www.youtube.com/watch?v=0tdlR1rBwkM
- MS Excel Basic Formulae and Functions: https://www.youtube.com/watch?v=v1126PO5zRU



CAPE

- > 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 Street Art

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

- Understand the difference between Street Art and vandalism
- Can identify the work of different street artists
- Will develop their observational drawing skills

- Will be able to research relevant sources to use in final piece
- Will be able to produce a composition that has a focal point and demonstrates overlapping
- Will experiment with mixed media to produce a personal outcome

Definition	
Independent visual art created in public locations such as the walls of buildings for public visibility.	
Written, painted or drawn on a wall or other surface, usually without permission and within public view.	
A product or service that has a unique and immediately recognizable identity that distinguishes itself from others in its industry.	
A graphic mark, emblem, or symbol used to aid and promote public identification and recognition.	
A person or thing widely admired especially for having great influence or significance.	
The area of a picture that attracts the eye.	
Creating the impression that one shape is in front of, or behind another	

Key Concepts







He decided to revive his childhood by ipainting characters fromhis youth. He draws his inspiration from Marvel's superheroes and Walt Disney or Looney Ben Eine is one of the most successful street artists in the world and is regarded as a pioneer in the exploration of graffiti letterforms. His typographic style is distinctive and looks like a circus cities of the world.



The strong colours and bold iconic landmarks are features of his art. LOBO aims to show people's stories, illustrated using icons of the main



Keith Haring was an instant star of the 1980's art world-His style is highly recognizable. It consists mostly of simple figures surrounded by rhythmic lines that make them appear to vibrate or

OVERLAP: extend over so as to

cover partly.



SILHOUETTE: the dark shape and outline of someone or something

against a brighter background-

Banksy is a street artist from Bristol. UK. He makes satirical, humourous art using stencils and spray paint.



plastic, or metal with a pattern or letters cut out of it. Ink or paint is applied through the holes to produce

















www.fontspace.com



You can find fonts similar to those used by Ben Eine on fontspace. The font above is called 'Cast Iron



TYPOGRAPHY: Making the text readable When selecting a typeface for a children's text, look for a warm, friendly design with simple shapes-



STENCIL: a thin sheet of card,



Year 9 Street Art

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

- Understand the difference between Street Art and vandalism
 - Can identify the work of different street artists
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- Will be able to research relevant sources to use in final piece
- Will be able to produce a composition that has a focal point and demonstrates overlapping
- Will experiment with mixed media to produce a personal outcome

Retrieval Practice	
Questions	Answers
Why is it important to layer your images in your final piece?	So that it resembles the work of Jerome Clem, and makes your piece visually interesting.
What is a mixed-media piece of art?	Artwork that uses more than one material to make it, for example Paint, charcoal, collage, stitch, pastels, markers.
Why is street art important to culture?	It can help express the lives and values of a community. It can highlight the values that people share or want to celebrate, for example, a portrait of someone who is well respected in the area helps to give a sense of pride
What is a monogram?	A design consisting of two or more alphabetic letters combined or interlaced, commonly one's initials, often printed on stationery, or embroidered on clothing.
Why do artists create artwork of icons?	An icon is easily recognised by a large number of people, including them in artwork will make the work relatable to more people.
What makes Banksy so famous (and popular)?	His distinctive style often combines elements of irony, humor, and political commentary. Banksy's art is often critical of government and societal institutions, and he has used his work to raise awareness of issues such as poverty, war, and immigration.

Career Focus - Where could this take you?





I am a retailer of vintage clothes.
I rework clothes to create unique garments, often collaborating with well known brands. I manage online shops and run a physical shop. I have to have an

Challenge Activities

eye for quality products and an understanding of current trends.

Have a go at creating your own graffiti writing online
Graffiti Creator Online - Free Graffiti Font Text Creator - No Download Required

Create your own stencil art.
STENCIL ART FOR BEGINNERS -Step by Step.. - YouTube

Topic Links



Additional Resources



This topic links to:

 English – being able to debate a subject, and arguing the case for both sides. To further practise and develop your knowledge see:

Colour Ways: Using street art and graffiti to break barriers

L Creative Scotland

The Story Behind Banksy | Arts & Culture | Smithsonian Magazine



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

Key Concepts

- Rank Smart Fibres in order of environmental impact.
- Annotated a range of design ideas which include moral and culturalissues.
- Demonstrate an understanding of smart materials.

Keyword Definition Describing a series of parallel ridges and furrows Corrugated Cloth or other material produced by weaving or knitting fibres. **Fabric** Made by chemical synthesis, especially to imitate a natural **Synthetic** product. Smart fibres and structures can be defined as materials and **Smart Fibres** structures that can sense and react to environmental conditions or stimuli, mechanical, thermal, chemical, electrical, magnetic. Class of materials manufactured by the conversion of natural Regenerated cellulose A type of cloth or woven/knitted fabric. **Textiles** A set of principles concerned with the nature and appreciation **Aesthetics** of beauty. These microspheres gradually release active agents when **Encapsulated** rubbed, which rupture the thin-walled membrane. A plan or drawing produced to show the look and function or Design workings of a building, garment, or other object before it is built or made Thinner than human hairs and can be coiled to provide a very Microfibre warm, soft or absorbent material Offering resistance to something Resistant Allow a small electrical current to safely pass through them. Conductive Yarn or other materials are laid across the surface of the Couching

ground fabric and fastened in place with small stitches of the

Supplying someone or something with items necessary for a

Craft of decorating fabric or other materials using a needle to

same or a different yarn.

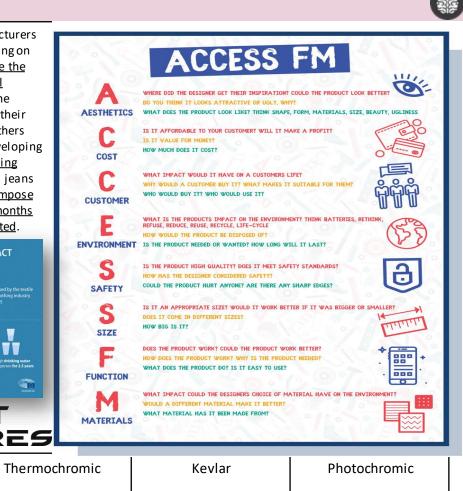
particular purpose:

apply thread or yarn.

Equipment

Embroidery

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













Academy Year 9 Skills Cushion Project

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

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

Retrieval Practice



Question	A1	A2	А3	А4	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. Whatis a Design Specification?	A listof 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 sub stance	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 t o add to a Christmas tree	Techniques to add to shoes
Question	Quick Cor	rections (brid	lge learning g	aps & miscon	ceptions)

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.

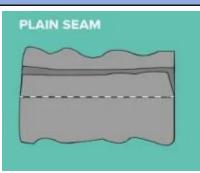
Huddersfield University offer an BA Hons degree in Graphics Design, and you will need 5 GCSE grades 5 and above and a higher-level certificate in the subject.

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



Additional Resources



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 – You Tube

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

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



Year 9 Resistant Materials

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

- Demonstrate safe use of tools and equipment.
- Explain a range of material properties and end uses.

 Rank materials in order of environmental impact.
- $\bullet \quad \text{Annotate design} \, solutions \, with \, manufacturing \, production \, in \, mind.$
- $\bullet \quad {\sf Demonstrate} \ {\sf an} \ {\sf understanding} \ {\sf of} \ {\sf Card} \ {\sf Prototyping}.$

Keyword	Definition
Seasonal	Seasoning wood is the process of correctly drying timber in order to remove moisture in the cells of the wood walls.
Specification	an act of describing or identifying something precisely or of stating a precise requirement.
Mass Production	the production of large quantities of a standardized article by an automated mechanical process.
Batch Production	Batch production is a method of manufacturing where the products are made as specified groups or amounts, within a time frame
Ergonomics	Human factors and ergonomics are the application of psychological and physiological principles to the engineering and design of products.
Anthropometric Data	A list of <u>units of measurement</u> based on <u>human body</u> parts or the attributes and abilities of humans.
JIT Production	Just-in-time manufacturing tries to match <u>production</u> to <u>demand</u> by only supplying <u>goods</u> which have been ordered and focuses on efficiency.
Continuous Production	Continuous production is a <u>flow production</u> method used to <u>manufacture</u> , produce, or process materials without interruption.
Resistor	A resistor is a <u>passive</u> <u>two-terminal electrical component</u> that implements <u>electrical resistance</u> as a circuit.
Micro Controller	A microcontroller contains one or more <u>CPUs</u> (<u>processor cores</u>) along with <u>memory</u> and programmable <u>input/output</u> peripherals.
Modifications	A change in design/ product which makes it better.
LED	is a light-emitting diode.
PET	most common thermoplastic polymer resin of the polyester family
Poly Propylene	a thermoplastic polymer used in a wide variety of applications.
HDPE	thermoplastic polymer produced from the monomer ethylene

Key Concepts Vacuum Former Acrylic **Polythene** ABS ∞ ... **Switch** Resistor Microcontroller **LED** Health **Modifications** Time **Process** & Safety **Constraints**



Academy Year 9 Anglepoise Lamp 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 material properties and end uses.
- Rank materials in order of environmental impact.
- $\bullet \quad \text{Annotate design solutions with manufacturing production in mind.} \\$
- Demonstrate an understanding of Card Prototyping..





Question	A1	A2	А3	A4	A5
A. What is rethinking?	Designing	Making	Discarding	Creating	Upscaling
B. Whatis reusing?	Maintaining	Discarding	Making	Upscaling	Creating
C. Whatis recycling?	Creating	Upscaling	Discarding	Making	Collecting
D. Whatis repairing?	Making	Fixing	Creating	Discarding	Upscaling
E. What is reducing?	Discarding	Making	Imprint	Creating	Upscaling
F. Whatis refusing?	Creating	Discarding	Upscaling	Morals	Making
G. What is mass production?	Detailed	Maintenance	Rapid	Thousands	Expensive
H. What is batch production?	Hundreds	Detailed	Detailed	Maintenance	Rapid
I. What is one off?	Maintenance	Rapid	Expensive	Detailed	Singular
J. What is continuous?	Expensive	Ongoing	Maintenance	Rapid	Detailed
K. What is seasonal?	Rapid	Expensive	Monthly	Maintenance	Thousands
L. What does the JIT process provide?	Expensive	Thousands	Rapid	Efficiency	Maintenance

Question	Quick Corrections (bridge learning gaps & misconceptions)

Career Focus - Where could this take you?





Architects are responsible for designing buildings that meet the needs of their clients and comply with local building codes. Architects work with clients and other professionals to develop project plans that outline the scope, budget, and timeline for the project

Huddersfield University offer an Architectural Technology BSc(Hons) and you will need 5 GCSE grades 5 and above and a higher-level certificate in the subject.

Salaries usually range from£21,000-£80,000

Challenge Activities- Can you match the correct product to material?









PTE

HDPE

Poly Propylene

Topic Links



Additional Resources



This topic links to:

- Science- The creation of Plastics.
- English- Subject specific Vocabulary knowledge, understanding and spelling.
- Maths- Measurements and scales of productions.

To further practise and develop your knowledge see:

https://youtu.be/iO3SA4YyEYU

https://voutu.be/_6xINvWPpB8

https://youtu.be/eISJ33Scrnc



Year 9 Food Tech

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

• 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 an act that all food businesses in the UK must comply with.
Adaptation	Changing the ingredients or cooking methods of a dish in some way
Shortening	Shortening 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 a cids. 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.

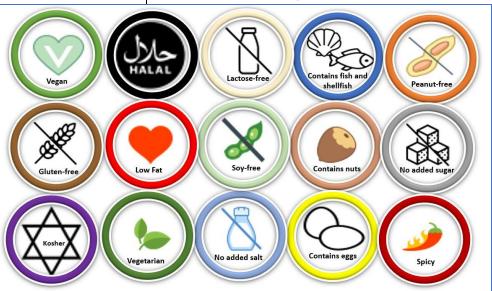
Food Standards Act 1999

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



Year 9 Food Tech

Demonstrate sound preparation skills of both equipment and ingredients

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

Beef burgers Serves 4 people



Equipment:

- Mixing bowl
- Fork
- Brown chopping board
- Green chopping board
- 2 x Sharp knife
- Butter knife

Ingredients:

- 500g lean minced beef
- 1 onion, finely chopped
- 1 tbsp mustard
- 1 medium egg
- 1 tbsp olive oil
- Salt and freshly ground black pepper

Cooking methods:

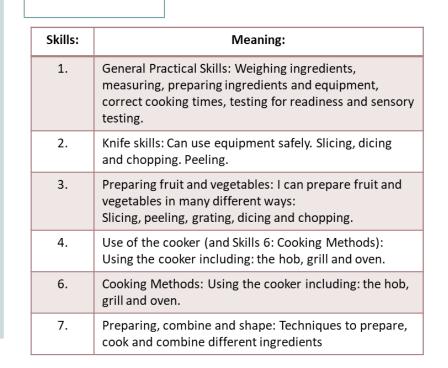
 Shallow frying and baking

To serve the burger (optional):

- 4 slices mature Cheddar cheese
- 2 tbsp mayonnaise
- ¼ iceberg lettuce, shredded
- 4 ciabatta or ordinary bread rolls
- 1 small red onion, thinly sliced
- 1 large tomato, sliced.

Method:

- 1. Preheat your over to 180°c
- 2. Chop your onion very finely.
- 3. Place all the burger ingredients in a mixing bowl and mix thoroughly with a fork (or with your clean hands) to combine. Using your hands, shape the mixture into four equal-sized balls and then squash sown to create a burger shape.
- 4. Put a small amount of oil in the frying pan and wait for it to heat (moderate/high). Carefully add your burgers, turn down the heat slightly and turn every 1-2 minutes so that they do not burn, up to 10 minutes.
- 5. Finally, carefully put your burgers onto a baking sheets and into the oven for 10 minutes to cook through.
- 6. Check that they are cooked through with the temperature probe



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TSP		TBSP	FLO	oz	CUP	PINT	QUART C		LLON	
3		1	1/	2	1/16	1/3	12	- 0		3
6		2	1		1/8	1/2	16	1/32		-
12		4	2		1/4	1/	8	1/16		
18		6	3		3/8	13				
24		8	4		1/2	1/	4	1/8	1	/32
36		12	- 6		3/4					+
48		16			1	1/	2	1/4	1	1/16
96		32	16		1	1		1/2	13	1/8
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33		256	12	8	16		1	*	ļ.	1
	0	_		0				0-		
1		IPOON ML		DESSERTSPOON 10 ML				TEASPOON 5 ML		
	IILI	IILI	TER	s				GR	AM	15
oz	ML		CUP	ML				oz	G	LB
2	60		1/4	60				2	58	104
4	135		1/2	120				4	114	1
6	150		2/3	160				6	170	-
8	230		2/4	180				8	226	1/2
10	285		1	240				12	340	18
12	340		3	480				16	454	- 1
N4 CUP				1/2 CUP				1		
FLOU		32g			OUR	64g		FLO	UR	125
SUGA		50g 55g			GAR	100g 112g		SUG	AR TER	200

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

Butterfly Buns

Ingredients

110g butter100g caster sugar110g self-raising flour2 eggs



Equipment

Cupcake tin and cases
Mixing Bowl
Electric whisk
Cooking rack
Knife
Teaspoon

School will provide:

1 tsp vanilla extract ½ tsp baking powder Jam and filling



<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.	Preparing, combine and shape: Techniques to prepare, cook and combine different ingredients.
11.	Raising Agents: Use of raising agents including: eggs, chemical, steam and biological.

Method

- 1. Heat the oven to 180C/160C fan/gas 4.
- 2. Line a cupcake tin with 10 cases.
- 3. To make the sponge, tip the butter, sugar, eggs, vanilla, flour, baking powder and milk into a large mixing bowl and beat with either a hand whisk or electric mixer until smooth, pale and combined.
- 4. Divide the batter between the cases and bake for 15 mins until golden brown and a skewer inserted in the middle of a cake comes out clean.
- 5. Leave on a wire rack to cool.
- 6. Once the cakes are cool, use a sharp knife to slice off the tops, then cut the tops in half.
- 7. Pipe or spread the buttercream on top of the cakes, then gently push two semi-circular halves into the buttercream on each cake, doing this at an angle to look like butterfly wings. Y
- 8. You can serve the cupcakes at this stage, or decorate them with a little blob of jam in the centre and a scattering of sprinkles, if you like.



Year 9 Food Tech

Us e safe and hygienic practices in a working kitchen environment De monstrate sound preparations kills of both equipment and

Demonstrate sound preparation skills of both equipment and ingredients

Sausage roll/plait



Ingredients:

- 200g plain flour
- 100g butter (chilled)
- ½ tsp salt
- 250g sausage meat or 6 sausages (take off the skin).

Can add onion/ herbs or apple.

Other flavouring ideas, chutney, mustard, apple sauce, cheese etc.

Vegetarians: Cheese and onion etc Or Veggie sausages

Equipment:

- Large bowl
- Table knife
- Grater
- Measuring jug
- Chopping board
- Lined baking tray
- Table spoon
- Rolling pin

***Container with a lid ***

PRACTICAL SKILLS

- Weighting & Measuring
- Glazing
- Pastry making
- Mixing ingredients
- Shaping product
- · Oven skills: Baking
- Timing
- Decorating

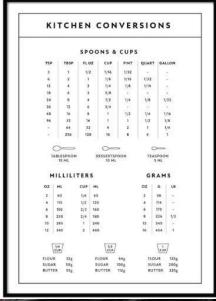
HYGIENE & SAFETY TIPS

- Wash your hands with warm soapy water before you begin and after touching meat.
- Use red chopping board for meat.
- Check work tops and equipment are clean.
- Any meat is stored in the fridge.
- · Gas ovens lit correctly.

Method

- •1.Place flour in large bowl with salt.
- •2.Roll butter in flour, then grate into large bowl.
- •3.Mix with table knife.
- •4. **Gradually** add cold water a tablespoon at a time and stir with table knife to form a dough. Place in fridge if time allows.
- •5.Roll out pastry on floured surface into a rectangle.
- •6.Prepare sausage meat on floured chopping board adding any additional ingredients.
- •7.Prepare sausage meat in centre of pastry.
- •8.Use knife to cut diagonally sides of pastry.
- •9.Fold over both ends then plait pastry sides.
- •10.Place on baking tray and glaze.
- •11.Place in oven for 35 to 40 minutes.









Year 9 Rap and Hip Hop

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

To develop an understanding of Hip Hop and it's surrounding culture.

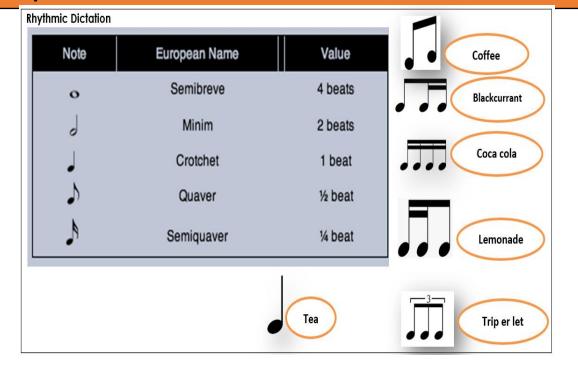
To be able to perform Gangsta's Paradise, using appropriate musical technique on the keyboard.

To develop appropriate musical vocabulary through the MAD TSHIRT mnemonic.

To be able to identify musical features of Gangsta's Paradise, applying appropriate musical vocabulary.

Keyword	Definition
Melody	The main layer or tune of a piece. Melodies can move by step or in leaps.
Articulation	The way the notes are played: <i>long and smooth</i> or short and choppy. Legato = Long and smooth Staccato = Short and choppy.
Dynamics	How loud or quiet the sound is.
Texture	The layers that make up a piece Monophonic = One Layer On its own. Homophonic = One melody and accompaniment Polyphonic = More than one melody at the same time.
Structure	The way the music is put together in sections . Beginning – Middle – End
Harmony	The chords that accompany the melody. Diatonic – notes that blend well together. Dissonant - notes that do not blend well together. Tonality – What key the music is in.
Instrumentation /Forces	The instruments or voices used to perform a piece of music.
Rhythm	The note values used. Syncopation – off beat rhythm.
Тетро	The speed of the beat

Key Concepts





Hip-hop music focuses on rhythm rather than melody and harmony. It is characterised by:

- rapping
- use of samples
- · use of programmed beats
- DJing

What is Rapping?



Often the lead vocal is joined by another member of t group who:

Rapping is rhythmical, rhyming, semi-spoken recitation

- doubles the last word of some lines
- adds answering phrases
- adds spoken ad libs



Newsome Year 9 Rap and Hip Hop Academy

Gangsta's Paradise - MAD TSHIRT, Musical analysis.

Hip Hop	Musical Devices	Sampling	Riffs
Hip Hop is not just a style of music but an entire culture that is made up: DJing and beat making. B-Boying or Break Dancing, a form of acrobatic group dancing. Graffiti art Mc'ing or rapping,	Musical devices are techniques used by composers (people who write music) to give a certain feel or sound to the music. Using specific musical devices can make the music sound like a specific style. Examples = Riffs / Sampling	In music, sampling is when a short snippet (or sample) of a sound recording is used in another recording. Samples are often changed in some way e.g. by changing the pitch or slowing them down.	A riff is a short repeating pattern in a piece of pop music.
Gangsta's Paradise:	Gangsta's Paradise: Tonality	Gangsta's Paradise: Harmony	Time Signature
Texture The song uses two types of texture Homophonia – One melody and accompaniment (during the verse sections) Polyphonia – more than one melody at the same time (during the chorus sections).	Gangsta's Paradise is in a minor key. It sounds sad , which fits with the lyrics.	The chord sequence, which repeats throughout the song is: G E F# B Maior minor Maior minor	Gangsta's Paradise is in 4/4, meaning each bar has 4 beats.
Breakbeat	Looping	Vocalisation	Melisma
A short break in the song that is just the drum beat on its own. Breakbeats were sampled a lot because drumbeats are perfect to rap over.	A small section of sound that is repeated.	Wordless singing. Wordless singing can be heard during the chorus of Gangsta's Paradise in the backing vocals	Signing more than one note per syllable.

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

To develop an understanding of Hip Hop and it's surrounding culture.

To be able to perform Gangsta's Paradise, using appropriate musical technique on the keyboard. To develop appropriate musical vocabulary through the MAD TSHIRT mnemonic.

To be able to identify musical features of Gangsta's Paradise, applying appropriate musical vocabulary.



I'm a music producer and my job is to arrange compositions, runs recording sessions, and suggests changes to instrumentation, effects and lyrics. I guide the mastering, mixing of the music and also the recording engineers. I also gather ideas and inspiration for projects and develop the vison and direction for each project.

Challenge Activities



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

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

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

Topic Links	Additional Resources
This topic links to Maths – understanding of pitch requires knowledge of halfs teps and full steps and the ability to count in different intervals	Free sheet music for piano - https://makingmusicfun.net/htm/printit_piano_sheet _music_index
Science – pitch is a scientific concept. Concert A has a requency of 440 Hz vibrations per second	Have a go at writing your own melody - https://www.bbc.co.uk/bitesize/topics/z3dqhyc/artides/z7n2qp3



Year 9 Athletics

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

Students explore advanced skills to track and field activities including runup and take off in jumping events, kick and glide in throwing events that shall excel their results from year 8. Students can compare themselves to English Schools performance table so they can compare their successes in track and field events. Students identify their best performances and are competitive against others. Students can justify why they are successful in some areas and how they need to improve in others.

Key Concepts You should already know: - Some components of fitness and be able to apply them to different athletic events. You will be assessed on: - Understanding - Technique - Application - Leadership

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Athletics Key Concepts- How well am performing?

Personal Challenge

- Set your goals
- Learn the skills
- Practise hard to achieve your goal
- Record your progress
- · Reward yourself with a badge and certificate
- Move onto the next stage!

- Develop CONFIDENCE and COMPETENCE, learning the skills of different Running, Jumping and Throwing activities.
- Progress to becoming COMPETITIVE with Confidence and Competence.

INCLUSIVITY

Allows teachers to adjust weights, select distances, hurdle heights and spacings to suit the age and level of performers.

Boys' Award Standards

STAGE PROGRESSIONS	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7	Stage 8	Stage 9
SPRINTS	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Eite	Podium
50m Standards	14.8s	12.0s	10.3s	9.6s	8.9s	8.3s	7.8s	7.As	7.0s
75m Standards	21.0s	17.0s	15.0s	13.5s	12.5s	11.5s	10.7s	10.0s	9.5s
100m Standards	23.0s	18.7s	16.7s	14.6s	14.2s	13.8s	13.4s	13.0s	12.7s
200m Standards				30.3s	29.3s	28.8s	27.6s	27.0s	26.0s
300m Standards				56.5s	54.0s	51.5s	48.5s	45.0s	42.5s
HURDLES	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Eite	Podium
60m Standards	25.0s	19.0s	15.5a	13.5s	12.0s	11.0s	10.5a	10.1s	9.7s
70m Standards	24.0s	20.4s	17.3s	15.8s	14.5s	13.6s	13.0s	12.5s	12.2s
75m Standards	23.0s	21.0s	18.0s	16.5s	15.3s	14.5s	13.8s	13.5s	13.2s
80m Standards						15.2s	14.4s	14.0s	13.4s
ENDURANCE	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Eite	Podium
400m Standards	3m 20s	2m 30s	2m 05s	1m 45s	1m 35s	1m 20s	1m 10s	1m 05s	1m 00s
600m Standards	6m 00s	4m 30s	3m 20s	2m 50s	2m 30s	2m 15s	2m 05s	2m 00s	1m 50s
800m Standards	4m 00s	3m 40s	3m 20s	3m 00s	2m 50s	2m 41s	2m 33s	2m 27s	2m 20s
1500m Standards	6m 20s	6m 05s	5m 50s	5m 38s	5m 28s	5m 19s	5m 10s	4m 59s	4m 46s
JUMPS	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Eite	Podium
Standing Long Jump	0.35m	0.90m	1.40m	1.60m	1.80m	2.00m	2.30m	2.60m	2.80m
Long Jump	1.00m	1.80m	2.40m	3.00m	3.50m	4.00m	4.40m	4.70m	5.05m
Standing Triple Jump	1.00m	2.40m	4.00m	4.60m	5.10m	5.60m			
Triple Jump						6.40m	8.50m	9.70m	10.60m
High Jump	0.20m	0.50m	0.80m	1.00m	1.10m	1.20m	1.30m	1.40m	1.50m
THROWS	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
Shot Put	1.00m	2.00m	3.25m	4.80m	5.80m	6.80m	8.00m	9.40m	10.15m
Javelin	1.00m	5.00m	10.00m	12.00m	15.00m	19.00m	26.00m	30.00m	33.50m
Discour	1.00-	5.00m	8 00m	10.00-	12.00m	17.00m	22.00m	24.00-	26.00-

Girls' Award Standards

STAGE PROGRESSIONS	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7	Stage 8	Stage 9
SPRINTS	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
50m Standards	14.8s	12.2s	10.6s	9.91	9.2s	8.61	8.1s	7.7s	7.3s
75m Standards	21.0s	17.3s	15.3s	13.8s	12.8s	12.1s	11.5s	11.0s	10.5s
100m Standards	23.0s	19.0s	17.0s	15.5s	15.0s	14.6s	14.2s	13.9s	13.7s
200m Standards				31.7s	30.8s	30.5s	29.7s	29.2s	28.5s
300m Standards				55.0s	53.5s	52.0s	50.0s	48.5s	46.0s
HURDLES	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
60m Standards	25.0s	19.3s	16.0s	14.0s	12.5a	11.5a	11.0s	10.5s	10.1s
70m Standards	24.0s	21.0s	18.9s	17.3s	15.9s	14.6s	13.7s	13.1s	12.7s
75m Standards	23.0s	21.0s	18.5s	17.0s	16.0s	15.0s	14.0s	13.7s	13.4s
80m Standards						15.0s	14.2s	13.9s	13.6s
ENDURANCE	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
400m Standards	3m 20s	2m 30s	2m 10s	1m 55s	1m 40s	1m 25s	1m 15s	1m 10s	1m 05s
600m Standards	6m 00s	4m 30s	3m 30s	3m 00s	2m 40s	2m 30s	2m 20s	2m 10s	2m 00s
800m Standards	5m 00s	4m 45s	4m 30s	4m 10s	3m 45s	3m 20s	2m 55s	2m 45s	2m 35s
1500m Standards	7m 20s	7m 00s	6m 44s	6m 30s	6m 17s	óm 06s	5m 55s	5m 42s	5m 24s
JUMPS	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
Standing Long Jump	0.35m	0.90m	1.35m	1.55m	1.70m	1.90m	2.20m	2.40m	2.60m
Long Jump	1.00m	1.80m	2.30m	2.80m	3.10m	3.40m	3.70m	4.00m	4.30m
Standing Triple Jump	1.00m	2.40m	3.60m	4.40m	4.80m	5.20m			
High Jump	0.20m	0.50m	0.75m	0.90m	1.00m	1.10m	1.20m	1.28m	1.36m
THROWS	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
Shot Put	1.00m	2.00m	3.00m	4.25m	5.25m	6.00m	6.50m	7.00m	8.00m
levelin	1.00m	5.00m	7.00m	9.00m	12.00m	15.00m	18.00m	21.00m	24.00m
Discus	1.00m	3.00m	5.00m	7.00m	9.00m	13.00m	17.00m	19.00m	21.00m

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Keyword (Tier 3 subject specific language)	Definition
Power	This is the ability to perform maximum strength and maximum speed of your muscles in order to generate forces to move an object or propel yourself forward. Power = strength x speed. This component of fitness is exceptionally important with all throwing events.
Co-ordination	The ability for muscles to work together in pairs to move different body parts at the correct time with ease and efficiency. Having good technique in all athletics events will aid in your performance so you can be faster, stronger and work harder.
Reaction Time	The time taken for a person to respond and initiate movement to a stimulus (the starter or whittle in athletics running events).
Balance	The ability to maintain your centre of mass and control of sports performance either statically (stationary) or dynamically (moving). This is very important with throwing activities so you don't fall over the line and get disqualified.
Speed	The rate at which a person moves as fast as possible to cover a distance over the shortest time possible. Speed=distance/time. Important in all short distance sprint races. The winner in sprinting events is determined by the fastest person.
Cardiovascular endurance	The ability for the heart and blood vessels to transport oxygenated blood to the working muscles in sports performance. The performer can work at a moderate level of intensity for a long period of time without getting fatigued (tired). This is important for long distance running activities including the 1500m.
Muscular strength	This is the maximum force that can be applied from muscles in order to overcome resistance (external force) so that movement can take place. This is an extremely important component of fitness for jumping and throwing activities in order to travel the furthest distance possible in order to win in the event.
Flexibility	This is the range of movement that can be

performed around a joint by the muscles, ligaments and tendons without any pain or over

stretching.



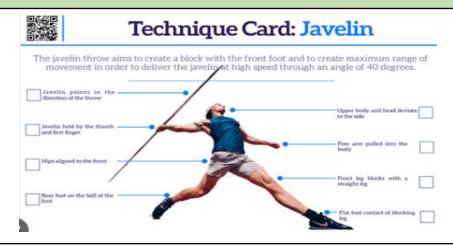
Year 9 Athletics

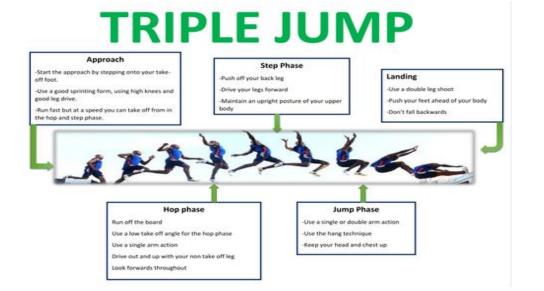
The aims of the sequence of learning are to ensure that all students:

Pupils will further develop their running, jumping and throwing skills and learn specific techniques for events in order to further improve performance. In all a thletic activities, pupils will engage in performing and improving their skills and personal best in relation to speed, height and distance. Pupils will also develop their a bility to officiate and set up a thletics events.

Use the skill cards to help you have a full understanding on how to perform the techniques in your next PE lesson on javelin and triple jump.







Career Focus - Where could this take you?





My career is known as an athletics umpire. I am responsible for track and field athletics events. I am responsible for judging the various events to make sure all athletes compete with fair play and to make sure they are kept safe whilst performing. They can be sub-divided into four main groups: field judges, track judges, timekeepers, and starters. My career takes me all over the UK during the domestic season and every four years I umpire at the Olympic games.

Challenge Activities



Design a throwing activity skill card:-

Can you create a skill card that shall help a student in your class develop the correct technique in a throwing activity. Include diagrams and basic key written points that is clear for them to understand.

Create a key words poster:-

This can be used by all students in their PE lessons as memory recall revision task. Select between five to eight different key words and match them to a correct track and field event. Remember to use pictures of the events and students can match the definitions to the events. Remember that some events may have more than one key word linked to them.

Topic Links



Additional Resources



This topic links to:

- •RSHE Understanding how physical activity can reduce stress and anxiety and promote physical, mental and social wellbeing
- •English –understanding and defining key terminology
- Mathematics problems olving, recording figures and analysing performance. Time keeping and scoring against data.
- Voice 21 Discussing techniques, acting as race officials.

To further practise and develop your knowledge see:

https://howard.staffs.sch.uk/news/2021-06-11-english-schools-athletic-association

https://olympics.com/en/

https://www.britannica.com/story/what-do-the-olympic-rings-and-flame-represent



Keyword

Spotting

Aesthetic

Flexibility

Pike

Tuck

Straddle

Feedback

Parallel

Routine

Bounce count

Biomechanics

Year 9 Trampolining

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

- Identify at least 6 core trampolining skills.
- Demonstrate core skills such as a swivel hips.

Demonstrate a 10 bounce routine. Lead a small group of peers in a cool down.

Definition



Standing around the trampoline to help prevent the performer from falling.

The way something looks/something looking artistic.

The range of motion allowed at a joint.

Jumping with the legs extended out in front of the body and toes pointed.

Jumping with the knees flexed and toes pointed down.

Jumping with the legs extended diagonally from the hips.

Information given to an individual/team about their performance.

The amount of times the bed is touched

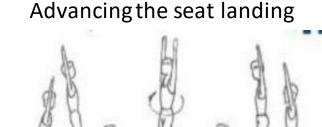
Straight lines that do not intersect.

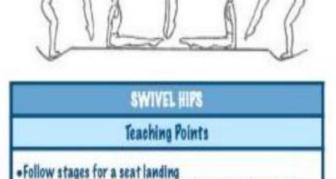
A set of core skills performed together to create a routine.

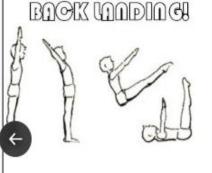
during a routine.

The study of the mechanical laws relating to the movement or structure of living organisms.

Key Concepts







Key points:

- At the top of the bounce, your hips and feet drive forwards, horizontal to the trampoline
- Arms stay by your ears, until landing (as demonstrated in image)
- Legs also need to be positioned like the diagram, tense core muscles on landing.



Key points:

Start of the skill is the same positioning as a front landing. Your body must take off as if completing a front landing.

- On take-off push feet back
- Head remains looking forwards
- Once in mid air, initiate the twist by looking under your armpit (depending on direction of twist)
- Arms remain my your ears, straight
- Once completing 180 degree twist, hips bend, keeping your legs straight to land in a back landing position.

Peer feedback sentence starters:

. Swing your arms and look under the armpit (towards the

. Land back in the seat position, with hands by your side

- Moving forwards you need to...
- For your next performance include...
- To improve your aesthetics, make sure that you...
- You showed great...

direction of twist)

What you should already know:

- At least 5 core trampolining skills.
- Demonstrate an 8 bounce routine.
- The biomechanics of a seat drop.



Year 9 Trampolining

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

- Identify at least 6 core trampolining skills.
- Demonstrate core skills such as a swivel hips.

Demonstrate a 10 bounce routine. Lead a small group of peers in a cool down.

Retrieval Practice. Recall routines for your performance.



Routine #6:

Full twist jump Tuck jump Pike jump 1/2 twist to seat landing ½ twist to feet

Routine #7:

½ twist jump Straddle jump Tuck jump Front landing To feet

Routine #8:

Full twist Straddle jump Pike jump Back landing To feet

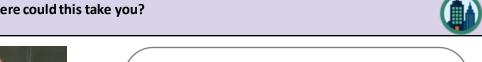
Depending on your progress levels in trampolining:

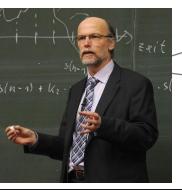
If you are unable to complete a front drop or back drop, then you can replace with a seat landing with a twist or a swivel hips

If you are unable to complete the routine, then have two bounces between each skill.

Questions	Answers
Why does a trampolinist require good flexibility?	Without flexibility, a trampolinist will struggle to perform their moves aesthetically due to a lack of pointed toes and straight body lines.
Explain the importance of an aesthetic performance.	An aesthetic performance is important as it allows people to fully enjoy the performance and ensures the performance looks good to the audience.
Why does a seat drop require good core strength?	Because without good core strength, the body will not stay tense and upright.
Give 3 safety points for trampolining.	All jewellery removed, hair tied back, socks worn.

Career Focus - Where could this take you?





A biomechanics lecturer teaches adults about the body and how it works in different settings against **biomechanics** principles.

Challenge Activities



Create:

- Create a 10 bounce routine using the correct trampolining terminology. You can use this routine in class so make sure it only has skills in which you can perform. Try to include at least 2 different shapes.
- Create a skill card for a skill of your choice. Include diagrams and key terminology.

1≧Ì **Additional Resources Topic Links** To further practise and develop your knowledge see: This topic links to: Science – a natomy and physiology https://www.bbc.co.uk/bitesize/guides/z39ck7h/revisi Maths - Angles on/1 Voice 21 – verbal feedback to peers https://www.british-gymnastics.org/technical-English – understanding and defining key terminology pages/trampoline-technical-resources



Usernames and Passwords