Wellington School



# Knowledge Organisers Year 9 Summer 2024

### Knowledge Organisers

### **Contents**

An introduction to Knowledge Organisers Art Computing Drama Design Technology (DT) English Geography History Mathematics MFL Music PSHE Religion, Ethics and Philosophy (REP)

\*Some subjects have Knowledge Organisers which last two terms or a year, therefore it will be the same as in past booklets.

### An Introduction to Knowledge Organisers

### What is a Knowledge Organiser?

A knowledge organiser is a document, usually one side of A4, occasionally two, that contains key facts and information that children need to have a basic knowledge and understanding of a topic, or in some cases a series of topics.

Students are expected to bring their Knowledge Organiser Booklet to school every day. Students will be issued with a new booklet to bring each term. However, it is import they keep the old booklets to help with revision for end of year exams.

### What are the benefits of knowledge organisers?

The main benefit of knowledge organisers is that they give students and parents the 'bigger picture' of a topic or subject area. Some topics can be complicated, so having the essential knowledge, clear diagrams, explanations and key terms on one document can be really helpful.

Research shows that our brains remember things more efficiently when we know the 'bigger picture' and can see the way that nuggets of knowledge within that subject area link together. Making links, essentially, helps information move into our long-term memory.

### How can the students use them?

As mentioned earlier, students are expected to bring their Knowledge Organiser Booklet to school everyday. In lessons they can be used in a number of ways, for example, to look up the meaning of key words, spell words correctly and do some additional work if they have finished classwork.

At home knowledge organisers can be used to support homework, independent work and revise for tests and exams. Two quick and easy ways to do this are:

- 1. <u>Look, cover write, check</u> look at <u>part</u> of the knowledge organiser, cover it, write as much as you can remember and then check it
- 2. <u>Word up</u> Pick out any words you don't understand. Use a dictionary or thesaurus to find the meaning. If they don't help as your teacher.

The more often you do this the better. YouTube has some clips on them; search 'Mr Garner look, cover, write, and check 'and 'Mr Garner word up'

#### How can parents use them?

- Read through the organiser with your son/daughter if you don't understand the content then ask them to explain it to you 'teaching' you helps them to reinforce their learning.
- Test them regularly on the spellings of key words until they are perfect. Get them to make a glossary (list) of key words with definitions or a list of formulae.
- Read sections out to them, missing out key words or phrases that they have to fill in. Miss out more and more until they are word perfect.

### How the booklet is organised

The knowledge organisers are in alphabetical order by subject.

### Year 9

Knowledge Organiser term 2&3

## Art Nouveau

## Line Printing

### Project outline

Throughout this project you will learn about the Art Nouveau movement.

### You will :

- Take inspiration from Art Nouveau movement
- Understand the Style of Art Nouveau
- Design your own Art Nouveau rotational pattern

### For your final piece you will:

Develop your pattern into a 3 colour lino print

Keywords

Mark making Natural Forms Mass production Repeated Pattern Roller Ink Cutter/Blades Art No Experiment Craft Pattern Stylise Surface print

Art Nouveau Craft Stylised print Rotation









### Skills

Develop a range of drawing techniques and mark making skills whilst still showing formal elements & observation

Take inspiration from Art Nouveau Artists and craftspeople

--Understand the movement and the style of Art Nouveau

-Apply ideas and techniques of the artist/MOVEMENT

Develop repeated patterns

Learn how to produce a 3 colour lino print

Develop a composition and manipulate media

--Using artist style, followi<mark>n</mark>g plan



Tools for printmaking Roller Cutter Blades Ink Lino Health & Safety—cut away from hand & body Artists renown for lino/block printing

- lan McCulloch
- Angie Lewin
- Edward Bawden
- Irving Amen Dale Deveraux
- Barker
- Clare Curtis
- Cyril E. Power



### Computing: AI Knowledge Organiser

Key Word	Meaning
Artificial Intelligence	Artificial intelligence (AI) is the design and study of systems that appear to mimic intelligent behaviour.
Bias	Bias refers to a preference for or against something.
Data	Data refers to values, facts, or observations in a form suitable to be used by computer programs.
Data-driven	Data-driven is a way of designing systems using data instead of step-by-step instructions.
Generative AI	Generative AI is a type of artificial intelligence (AI) designed to generate content, such as text, images, or sound.
Machine Learning	Machine learning is designing and building AI systems that 'learn' by using examples in the form of data.
ML classification	Classification refers to the task of assigning things into predefined groups, called classes
ML confidence	In machine learning, confidence is a way of measuring the certainty of a prediction
ML decision tree	A machine learning decision tree is one type of ML model. They are used to make predictions.
ML model	A computer program that is trained to make predictions.
Reinforcement learning	Training an ML model by using trial and error.
Rule-based	Rule-based is a way of designing systems using a set of rules, instead of data.
Supervised learning	Training a model using data prepared by humans.
Unsupervised learning	An ML model trains itself by grouping data.

### Drama Knowledge Organiser: Year 9

Drama Knowledge Organiser: Year 9 Techers	Practitioners	Frantic Assembly
<ul> <li>Play write = John Godber</li> <li>Comedic play offering a social commentary.</li> <li>Multirole</li> <li>Breaking the forth wall</li> <li>Devising</li> <li>Stereotypes</li> </ul>	<ul> <li>Bertolt Brecht</li> <li>Konstantine Stanislavski</li> <li>Naturalism</li> <li>Emotion Memory</li> <li>Magic If</li> <li>Hot seating</li> <li>Brecht- wanted the audience to think and to not get emotionally attached</li> <li>Stan- Wanted the audience to feel the real emotions of the character.</li> </ul>	<ul> <li>Physical Theatre</li> <li>'The Frantic Method'</li> <li>Collaboration</li> <li>Ensemble</li> <li>Chair Duets</li> <li>Round by Through</li> <li>Music</li> <li>Diverse Theatre</li> <li>Body as a prop</li> </ul>
<ul> <li>Live theatre</li> <li>Treasure Island</li> <li>National Theatre</li> <li>Bryony Lavery</li> <li>Set design</li> <li>Costume design</li> <li>Characterisation</li> <li>Key elements of the different ones.</li> <li>Bringing it all together to evaluate the performance.</li> <li>Analysing and evaluating a piece of theatre while demonstrating knowledge and understanding of how theatre is performed</li> </ul>	<section-header>         Director       Building         Maintenance       Director         Manager       Group (Choreo)         Manager</section-header>	A 'Follow Spot' sits on a stand and is designed to follow performers around the stage. It is a more powerful variation of a profile spot with additional features such as colour magazines and an iris. <b>FRESNEL SPOT</b> A 'Fresnel Spot' is used to create a general wash of light across the stage. The Fresnel has a stepped lens that causes light to scatter, producing a softer edge. 'Stand door's on all four sides of the lantern can be opened and closed to determine the spill of light.

## Year 9 Cooking and Nutrition Knowledge Organiser

PRIMARY

RESEARCH

Focus groups

### Hygiene and Safety – The four C's

Food hygiene & safety is a about protecting people and minimising the risk.

- Cleaning e.g. following routine, meeting standards using correct materials, cloths and PPE ,
- Chilling storing food at appropriate temperatures
- **Cooking** making sure food is cooked and served at correct safe temperatures.
- **Cross-contamination** avoiding food poisoning.



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EXPLORATORY

RESEARCH

Surveys/

Observations

### **World Cuisine**

World cuisines are one of the best ways to connect with others and to experience world cultures. Traditional food opens a window into the lifestyle of any given place. It tells a story of the people who lived there, its climate and the local flora and fauna.

Local ingredients and cooking techniques create a unique food profile distinctive to each area. Also, the customs around actually eating the food are integral to the culture.







### How to Research

### **Key Skills**

- Select a Topic and identify keywords.
- Decide which research methods will work best and locate information.
- Evaluate and analyse information.
- Write, organise, and communicate information in a way that your readers will find interesting and easy to understand.
- Cite sources it is important that you state where you have got information from, you don't want to be suspected of plagiarism.



### World Cuisine's popular in the UK:

- Chinese
- Italian
- Thai
- Indian
- Mexican
- Japanese
- Turkish
- Greek
- American
- Spanish

### Key vocabulary

Process by which bacteria or other microorganisms are unintentionally transferred from one substance or object to another, with harmful effect.

Detailed examination of the given task.

Primary research is data which is obtained first-hand. This means that the researcher conducts the research themselves, going directly to the source, rather than relying on preexisting data samples.

Secondary research or desk research is a research method that involves using already existing data. Existing data is summarised and collated.



## design technology Year 9 Product Design Knowledge Organiser

## Architectural Light

### Key Skills

- Responding to a Design Context
- Analysing & researching information
- Creating a brief & identifying an audience
- Writing a product specification
- Developing CAD/CAM skills using:
  - o Techsoft 2D Design
- Applying Health & Safety procedures and PPE in the workshop environment
- Identifying & using specific workshop tools and equipment
- Developing practical skills to create lap, housing & dowel joints to join materials
- Using a line bender to manipulate Acrylic
- Knowledge of timbers, manufactured boards, thermosetting polymers & card
- Prototype modelling, finishing & presentation skills
- Evaluating the design & manufacturing process

L.E.D. - Light Emitting Diode

This component is usually called by its initials L.E.D. It lights up when connected to a battery and needs between 1.5v - 3v (Volts). More than 3 volts will burn it out. The long leg must be connected to the positive side of the circuit or current will not pass through.

	-			Design Context	The o whic
	То	ools & Equipme	nt	Design Brief	An w
	3			Specification	aims A sta funct
	Try square	Steel rule	Soldering Iron	CAD	Com
	MAN Sequence			САМ	Com cutte
			Official	Finishing	The pr
	Bench vice	Bench hook	Tenon saw	Prototype	A pro
	🚇 🚨 🕵	$\boldsymbol{\checkmark}$			need impr
	LED	Sido suttors		PPE	Pers
		Side cutters	Sand Paper	Timber is a natu grain – always s	
ı &			CHISTOT Cellulose Scanding Scale Market Mark	Softwood Fi	rom c hich a
	Pillar drill	Belt & Disc sander	Sealant	su su	ustair
	Thermoplastic polyr can be heated and s	ners are chemically haped many times.	manufactured and		egrow trong
- r	Acrylic Acryli lightw a vari transp good e	c is used in sheet fo reight or shatter-res ety of colours it can parent. Acrylic is du electrical insulator . It is recyclable and	istant. It comes in be frosted or rable and is a but scratches	tr th a	lardwo rees, w ne aut re not uy





### Key vocabulary

Design Context The circumstances, problem or setting in which a product will be used.

written outline which explains the ns and objectives of a project.

statement that details exactly a products nction and the design requirements.

mputer aided design

mputer aided manufacture e.g. laser tter

e process of applying a finish to preserve protect a material & improve aesthetics. prototype is a model that is built to test see if it is successful or whether it

eds further modification or

provements.

rsonal protective equipment are items

material with imperfections, knots and I with the grain

a coniferous trees that are evergreen, h are faster to grow and are less nsive than hardwoods. Softwoods are a anable material as the resource can be own and not depleted. Softwoods are ng and easy to work with.

wood. Hardwoods come from deciduous s, which have large flat leaves that fall in autumn. Hardwoods take longer to grow, not easily sourced and are expensive to design technology Year 9 Product Design Knowledge Organiser

## Organiser

Key Skills

- Responding to a Design Context
- Analysing & researching information
- Creating a brief & identifying an audience
- Developing CAD/CAM skills using:
  - Techsoft 2D Design
- Applying Health & Safety procedures and PPE in the workshop environment
- Identifying & using specific workshop tools and equipment
- Developing practical skills to create mitre joints
- Drilling pilot holes, fixing screws
- Cutting Acrylic/MDF to produce a shelf
- Prototype modelling, finishing & presentation
- Evaluating the design & manufacturing process

Joining Materials – Mitre Joint Mitre Joint A mitre joint is a joint made by cutting each of two parts to be joined, across the main surface, usually at a 45° angle, to form a corner, usually to form a 90° angle, though it can comprise any angle greater Miter Joint than 0 degrees.

**Tools & Equipment** Key vocabulary Design Context | The circumstances, problem or setting in which a product will be used. An written outline which explains the **Design Brief** aims and objectives of a project. Try square Steel rule Mitre Clamps Specification A statement that details exactly a products function and the design requirements. CAD Computer aided design CAM Computer aided manufacture e.g. laser cutter Bench hook Bench vice Tenon saw The process of applying a finish to preserve Finishing or protect a material & improve aesthetics. A prototype is a model that is built to test Prototype to see if it is successful or whether it Coping saw Chisel File needs further modification or improvements. Personal protective equipment are items PPE such as goggles and aprons. Pillar drill Belt & Disc sander Screw driver Timber is a natural material with imperfections, knots and grain – always sand with the grain

Thermoplastic polymers are chemically manufactured and can be heated and shaped many times.



Acrylic is used in sheet form it is lightweight or shatter-resistant. It comes in a variety of colours it can be frosted or transparent. Acrylic is durable and is a good electrical insulator but scratches easily. It is recyclable and can be heat moulded.

Softwood

layers or wood fibres together. Medium



From coniferous trees that are evergreen, which are faster to grow and are less expensive than hardwoods. Softwoods are a sustainable material as the resource can be regrown and not depleted. Softwoods are strong and easy to work with.

Manufactured boards are timber produced by gluing wood

Medium Density Fibreboard or also known as MDF is made from wood fibres which are glued together. MDF has a smooth even surface which makes it easier to work than natural timber.

## Year 9 Textiles Knowledge Organiser

### Novelty Hot Water Bottle Cover

### Key Skills

- Responding to a Design Brief
- Analysing existing products
- Identifying an intended user
- Demonstrate the ability to apply decorative techniques:
  - Machine appliqué (including reverse)
  - $\circ \quad \text{Computerised embroidery} \\$
  - Embroidery stitches (hand & machine)
- Using a sewing machine to complete a range of construction techniques:
  - $\circ$  Seams
  - o Hems
  - Application of components
- Understanding the properties of materials
  - o Polyester
  - Fleece
- Understand CAM using computerised embroidery



Product	features	
	Consideration of a	Foll
& non-woven materials	specified target market	Mov
Originality	Creative	Tie l
Components used as decoration	Efficient use of materials	Hol aro
A variety of hand embroidery stitches	Components & fastenings	Only one
CAM embroidery	Machine appliqué	Nev by a





Key vocabulary
The parts/materials/threads needed to
Use of wadding to make a feature stand
What a product does, how it works and velocational or both?
Computer Aided Manufactured
The person or people most likely to be i product.
Even stitch widths and lengths complet
A decorative technique whereby a fabric front and is sewn in place by hand or ma
A product that is unique, creative and h
A decorative technique whereby one ma hand or machine.
A Design Brief is a written outline whic project.



### Health & safety

low teacher instructions

ve slowly around the room do not run

long hair back

ld scissors or shears correctly when walking bund the room.

y one person operating a sewing machine at

ever use a sewing machine unless supervised a teacher or technician

Turn off the sewing machine when not in use.

Report any injuries or breakages to the teacher immediately

y

time

make a product.

d up or raised from the backing fabric.

what it will be used for? Is it sensory or

interested or use your design or

ted by sewing by hand or machine.

ic placed on the back and visible on the nachine.

has functional features.

aterial is sewn on top of another by

ch explains the aims and objectives of a

Key Knowledge	Definition	A View
Tragedy/Tragic Hero	A play dealing with tragic events and having an unhappy ending, especially one concerning the downfall of the main character- the Tragic Hero	from the
Hubris	Excessive pride or self-confidence	Bridge
Sympathetic	Feeling, showing, or expressing sympathy	
Subservient	Willing to do what other people want, or considering your wishes as less important than those of others	
Climax	The most intense, exciting, or important point of something	San Cara
Foreshadows	A warning or indication of (a future event)	A View from the Bridge
Masculinity	Qualities or attributes regarded as characteristic of men or boys	Arthur Miller (Born
Community	A group of people living in the same place or having a particular characteristic in common	1915) was an American playwright,
Immigrant	A person who comes to live permanently in a foreign country	essayist and screenwriter in the
Protagonist	The leading character or one of the major characters	20th-century American theatre.
Catharsis	The process of releasing, and thereby providing relief from, strong or repressed emotions	The play is set in the 1950s in
Realism	The quality or fact of representing a person or thing in a way that is accurate and true to life	Red Hook, Brooklyn. It tells the story of Eddie Carbone, an Italian American
Naturalistic Dialogue	Dialogue written in a style to mimic real life conversation	longshoreman who lives with his wife, Beatrice, and his niece, Catherine. When
Colloquial Language	Everyday, informal language	Beatrice's cousins, Marco and Rodolpho, arrive illegally from Italy and move into the
American Dream	The ideal that every citizen of the United States should have an equal opportunity to achieve success and prosperity through hard work, determination, and initiative	Carbones' small apartment, Eddie's intense love for Catherine drives him to betray his family's trust.



evacuation

with 81 mph winds.

### Year 9 Geography Unit 3: Climate Change and Atmospheric Hazards

Physical causes:

orbital tilt

Volcanic eruptions and •

storms

extinct

Species will become



power stations and

storing it underground.

## **KEYWORDS**

Tropic

Climat



Lesson 1: Hazard risk <u>What is a natural hazard?</u> They are extreme natural events that can cause loss of life, extreme damage to property and disruption to human activity. <u>What factor can increase risk?</u> <u>Urbanisation:</u> With a more dense population urbanisation	Lesson 2: Global atmospheric circulation Global atmospheric circulation <u>creates winds</u> across the planet as <u>air moves from areas of high</u> <u>pressure to areas of low pressure</u> . It also leads to areas of high rainfall, like tropical rainforests, and areas of dry air, like deserts	<ul> <li>Lesson 3: Formation of tropical storms</li> <li>A tropical storm is a huge storm that develops in the tropics.</li> <li>They form over warm oceans above <u>27 degrees</u> Celsius.</li> <li>They form between <u>5</u></li> </ul>	Hazard Risk	Definition The probability of a hazard event causing harmful consequences
can increase hazard risk as there will be a more dense population which would increase the chance of those injured and the death rate.	Polar – Ferrel – Hadley	and 15 degrees north and south of the equator.		(death, injury, loss of property, damage to environment etc.).
Lesson 4 – Lesson 5: Hurricane Katrina Hit New Orleans 29 <sup>th</sup> August 2005. Cat 3 storm – 120 miles per hour	Lesson 6: Reducing the impacts of tropical storms Monitoring/ prediction: hurricane watch and hurricane warning Protection: reinforce windows and doors, houses close to the coast built on stilts, sea walls built to prevent flooding Planning: Reduces hazard risk,	<ul> <li>Lesson 7: Storm Fani</li> <li>Cyclone Fani made landfall in India <u>3<sup>rd</sup> May 2019.</u></li> <li><u>1.6 million people were</u> evacuated</li> <li>Storm surge breached the embankments</li> <li><u>53,000 acres</u> of agricultural land damaged</li> <li>17 deaths in Pangladash</li> </ul>	Climate Tropical Storm change	A very intense storm with winds faster than 73 miles per hour that forms over tropical oceans. The change in global or regional climate patterns.
iso350,000 peoples homes and possessions destroyedSuperdome • Coast guards rescued 33,500 people • \$62. 3 billion in aidImage: transmission of billion gallons of oil spilt on the coastlineImage: transmission of billion gallons of oil spilt on the coastlineImage: transmission of billion gallons of oil spilt on the coastline	education and evacuation plans Lesson 8: Global warming vs climate change Global warming is the long- term heating of Earth's surface due to human activities which increases heat-trapping greenhouse gas levels in Earth's atmosphere	<ul> <li><u>17 deaths</u> in Bangladesh</li> <li>Lesson 9: Extreme weather in the UK</li> <li>Extreme weather is an weather that is unusual or unexpected.</li> <li>Examples of extreme weather in the UK: <ul> <li>Strong winds and storms</li> <li>Droughts</li> <li>Floods</li> </ul> </li> </ul>	Mitigation	Reducing the impact and severity of climate change such as through using environmentally friendly technology.
Lesson 10: Storm Desmond1000 people evacuatedDecember 2015 storm hit£500bn in damagedCumbria with record breaking rainfall of 341.4mm in 24 hours200 military personnel had to support evacuation	Lesson 11 – 14: Climate change Human Causes: Fossil fuels and cattle farming Physical causes: Endition people Increase in tropical storms	ect How can we manage climate change? Carbon capture – this is the removal of co2 from	Scan th	e QR codes for useful links



## Year 9 Geography Unit 3: Contemporary Environmental Issues





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**CU** 

Global warming causes: Deforestation, burning fossil fuels, farming, landfills Negative impacts of global warming around the world:	Greenhouse gases trap heat and warm Earth Some of the radiation is		Definition Check
<ul> <li>sea level rise will affect 80 million people</li> <li>tropical storms will increase in magnitude (strength)</li> <li>diseases such as malaria increase,</li> <li>There are also some positive impacts of a warmer climate:</li> <li>energy consumption may decrease due to a warmer climate</li> <li>longer growing season for agriculture</li> <li>frozen regions such as Canada may be able to grow crops</li> </ul>	Solar radiation Pollution adds to greenhouse gases	Global warming	The gradual increase in the overall temperature of the earth's atmosphere
As our plastic consumption is set to skyrocket, it's clear that urgent action is needed. We dump eight million tonnes of plastic into the sea every year. It's killing and harming marine life. • Turtles eat plastic bags mistaking them for jellyfish • Seabirds are found with their stomachs full of plastic items • Plastic debris can get lodged in coral and affect the health of reefs	<ul> <li>Clothing Industry Impact:</li> <li>Toxic chemicals (e.g. lead and arsenic) are released into rivers</li> <li>Water from rivers is diverted into cotton- producing farms</li> <li>Loss of tourists to the Aral Sea</li> </ul>	Climate Change	A long-term change in the earth's climate, especially a change due to an increase in the average atmospheric temperature.
<ul> <li>Microplastics are consumed by animals like plankton, passing the problem back up the food chain - to us.</li> <li>Solutions: reuse, reduce, recycle. Stop the use of plastic straws, choose to use reusable cups, use a bag for life.</li> </ul>	<ul> <li>Loss of hourists to the Aral Sea</li> <li>Loss of biodiversity in and around the Aral Sea Solution:</li> <li>Eco-fashion industry: swap clothes with friends, reduce the number of new clothes we buy, consider where the clothes you buy were made.</li> </ul>	Sustainable Development	Development that meets the needs of the present without limiting the ability of future generations to meet their own needs.
How to achieve environmental sustainability: 1. Choose to reuse, reduce and recycle your waste. 2. Deduce the environmental sustainability:	A K H S T A N C H I	Greenhouse gases	A gas that contributes to the greenhouse effect by absorbing infrared radiation.
<ol> <li>Reduce the amount of electricity you use.</li> <li>Choose to walk/cycle/use public transport instead of trave car.</li> <li>Eat less meat.</li> <li>Buy new clothes less often. Try to find out where and how the you do buy were produced.</li> <li>Plant a tree or donate to plant a tree.</li> <li>Pass the message on!</li> </ol>	A Part Char Are	Fossil Fuels	A natural fuel such as coal or gas, formed in the geological past from the remains of living organisms.



# Wellington History Year 9 HT 5 Knowledge Organiser Why does Britain no longer have an empire?



<ul> <li>What and why? You will learn about the decline of the British Empire</li> <li>Stop, think and link: What caused country's to fight for their independence?</li> <li>Want to explore further?</li> <li>Book: The Decline and Fall of the British Empire by Piers Brendon</li> <li>Book: The Rise and Fall of the British Empire by Lawrence James</li> <li>Website: <a href="https://www.bbc.co.uk/bitesize/guides/zf7fr82/revision/1">https://www.bbc.co.uk/bitesize/guides/zf7fr82/revision/1</a></li> </ul>	<ul> <li>Key Questions</li> <li>What allowed Britain to grow such a vast empire?</li> <li>What factors led to the decline of empire?</li> <li>How did war play a crucial role in the decline of empire?</li> <li>How did country's gain their independence?</li> <li>What legacy has the Empire left today?</li> <li>Which individuals were important in nationalist movements?</li> <li>What control does Britain have today?</li> </ul>	KeywordsEmpirean extensive group of states or countriesruled over by a single monarch, an oligarchy,or a sovereign state.Imperialisma policy of extending a country's power andinfluence through colonization, use ofmilitary force, or other means.Independencethe fact or state of being independent
NE-KING - ONE - FLAG- ONE - FLEET - ONE - EMPIRE -	Key events and Key People 1867 – Britain passes the British North America Act. The Provinces of the British North America become a federation called Canada. Canada rules itself but has close trade links to the British Empire 1901 – Australia became a federation of territories. 1931 – Britain created the Commonwealth of Nations. This effectively ended British rule over Canada, Australia and New Zealand. 1947- India gain Independence 1949 – Ireland became a Republic and Northern Ireland remained part of the UK.	<ul> <li>Nationalism <ul> <li>dentification with one's own nation and</li> <li>support for its interests, especially to the</li> <li>exclusion or detriment of the interests of</li> <li>other nations.</li> </ul> </li> <li>Dominion <ul> <li>sovereignty or control.</li> </ul> </li> <li>Colonialism <ul> <li>the policy or practice of acquiring full or</li> <li>partial political control over another country,</li> <li>occupying it with settlers, and exploiting it</li> <li>economically.</li> </ul> </li> </ul>



### Wellington History Year 9 HT 6 Knowledge Organiser What was the Cold War?



✓ What and why? You will learn about the causes and	Key Questions	Keywords	
escalation of the Cold War and how the Civil Rights movement progressed.	What caused the Cold War?	Arms	Weapons
• Stop, think and link: How would the end of WWII cause	What was life like in Berlin?	Atomic bomb	Nuclear weapon
world tension? Why would Black American's need to protest for their Civil Rights?	Why was the Korean War Significant?	Blockade	Using force to prevent movement
• Significance Assessment – How significant was the Cold		Boycott	Withdraw from something in protest
War in the creation of the Modern World?	How did the Arms Race escalate tensions?	Capitalism	Economic system in the West
<ul> <li>Want to explore further?</li> </ul>	What was the Cuban Missile Crisis?	Censorship	Controlling or removing information
Book: <i>The Cold War: A New History</i> – John Lewis Gaddis Book: <i>The Vietnam War: An Intimate History -</i> Geoff Ward	How did the Civil Rights Movement progress?	CIA	American intelligence agency
and Ken Burns	Why was the Vietnam War Significant?	Communism	Political and economic system in Russia
Book: <i>The Billion Dollar Spy -</i> David E. Hoffman Website: https://www.jfklibrary.org/learn/about-jfk/jfk-in-		Containment	Limiting the spread of something
history/civil-rights-movement		Democracy	Political system in the West
	Key events and Key People	Detente	Period of increased diplomacy between the Soviets and Americans
A A A THAT A	1945 Russians reach Berlin: Hitler commits suicide and Germany	Deterrent	Preventing something from happening
	surrenders on 7 May. After atomic bombs are dropped on Hiroshima and Nagasaki, Japan surrenders on 14 August.	Doctrine	A set of ideas and beliefs
	<b>1946</b> Winston Churchill gives his "Iron Curtain" speech <b>1947</b> The Truman Doctrine is announced, with plans to "Contain"	Glasnost	Russian for openness
	communism <b>1948 – 1949</b> The Berlin Blockade	Hawks	Those who supported going to war, opposite of <i>Doves</i> who were against war
	<b>1949</b> – The Soviets successfully test their first Atomic Bomb <b>1950</b> – <b>1953</b> The Korean War	Ideology	A set of shared beliefs
	1954 – 1968 The Civil Rights Movement	MAD	Mutually Assured Destruction
	<b>1953</b> – Josef Stalin dies. He is replaced by Nikita Krushchev <b>1961</b> – Berlin Wall begins construction.	Perestroika	Russian for reconstruction
	1962 – The Cuban Missile Crisis.	Satellite state	A country under the control of another
	<b>1964 – 1975</b> – The Vietnam War <b>1989</b> – Berlin Wall pulled down	Ultimatum	A final demand, backed by a threat
	<b>1991</b> – Collapse of the USSR.	Vietcong	The Communist fighters in Vietnam

### Year 9: Pythagoras' Theorem

Topic/Skill	Definition/Tips	Example
1. Pythagoras'	For any <b>right angled triangle</b> :	Finding a Shorter Side
Theorem	$a^2 + b^2 = c^2$	y 10 subtract!
	c	8
		a = y, b = 8, c = 10 $a^2 = c^2 - b^2$
	b Used to find missing longths	$y^2 = 100 - 64$ $y^2 = 36$
	Used to find <b>missing lengths</b> . a and b are the shorter sides, c is the	y = 6
	hypotenuse (longest side).	
2. 3D Pythagoras' Theorem	Find missing lengths by <b>identifying right angled triangles</b> .	Can a pencil that is 20cm long fit in a pencil tin with dimensions 12cm, 13cm and 9cm? The pencil tin is in the shape
	You will often have to find a missing length you are not asked for before finding the missing length you are solved for	of a cuboid.
	the missing length you are asked for.	Hypotenuse of the base = $\sqrt{12^2 + 13^2} = 17.7$
		Diagonal of cuboid = $\sqrt{17.7^2 + 9^2}$ = 19.8 <i>cm</i>
		No, the pencil cannot fit.

### **Topic: Summarising Data**

Topic/Skill	Definition/Tips	Example		
1. Types of Data	Qualitative Data – non-numerical data Quantitative Data – numerical data	Qualitative Data – e etc.	ye colour, gender	
	<b>Continuous</b> Data – data that can take <b>any</b> <b>numerical value</b> within a given range. <b>Discrete</b> Data – data that can take <b>only</b>	Continuous Data – v Discrete Data – num		
2. Grouped	<b>specific values</b> within a given range. Data that has been <b>bundled in to</b>	shoe size etc.	N 1 6 1 11	
Data	categories.	Foot length, <i>l</i> , (cm)	Number of children	
Data	categories.	$10 \leq l \leq 12$	5	
	Seen in grouped frequency tables, histograms, cumulative frequency etc.	12 ≤ <i>l</i> < 17	53	
3. Primary	<b>Primary</b> Data – <b>collected yourself</b> for a	Primary Data – data	collected by a	
/Secondary Data	specific purpose.	student for their own	n research project.	
	Secondary Data – collected by someone else for another purpose.	Secondary Data – C analyse link between earnings.	n education and	
4. Mean	Add up the values and divide by how many values there are.	The mean of 3, 4, 7, 3+4+7+6+7 7		
5. Mean from a Table	<ol> <li>Find the midpoints (if necessary)</li> <li>Multiply Frequency by values or midpoints</li> <li>Add up these values</li> <li>Divide this total by the Total Frequency</li> </ol>	Height in cmFrequency $0 < h \le 10$ 8 $10 < h \le 30$ 10 $30 < h \le 40$ 6Total24Estimated Meanheight: 450 $\div$ 24 =18,75 cm	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	
	If <b>grouped</b> data is used, the answer will be an <b>estimate</b> .	18.75cm		
6. Median Value	The <b>middle</b> value.	Find the median of:		
	Put the data in order and find the middle one.	Ordered: 2, 3, 4, 5, 6	5, 6, 7	
	If there are <b>two middle values</b> , find the number half way between them by <b>adding</b> <b>them together and dividing by 2</b> .	Median = 5		
7. Median	Use the formula $\frac{(n+1)}{2}$ to find the position of	If the total frequency	y is 15, the median	
from a Table	the median.	will be the $\left(\frac{15+1}{2}\right) =$	8 <i>th</i> position	
	n is the total frequency.			
8. Mode /Modal Value	Most frequent/common.	Find the mode: 4, 5,	2, 3, 6, 4, 7, 8, 4	
	Can have more than one mode (called bi- modal or multi-modal) or no mode (if all values appear once)	Mode = 4		
9. Range	Highest value subtract the Smallest value	Find the range: 3, 31	1, 26, 102, 37, 97.	
		Range = $102-3 = 99$		

	Range is a 'measure of spread'. The smaller	
	the range the more <u>consistent</u> the data.	
10. Outlier	A value that 'lies outside' most of the other values in a set of data. An outlier is <b>much smaller or much</b> <b>larger</b> than the other values in a set of data.	12 10 8 6 4 2 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0
4.4 <b>T</b>		0 20 40 60 80 100
11. Lower Quartile	<b>Divides</b> the <b>bottom half</b> of the data into <b>two halves</b> .	Find the lower quartile of: 2, <u>3</u> , 4, 5, 6, 6, 7
	$LQ = Q_1 = \frac{(n+1)}{4} th$ value	$Q_1 = \frac{(7+1)}{4} = 2nd$ value $\rightarrow 3$
12. Lower	Divides the top half of the data into two	Find the upper quartile of: 2, 3, 4, 5, 6,
Quartile	halves.	<u>6</u> , 7
	$UQ = Q_3 = \frac{3(n+1)}{4} th \text{ value}$	$Q_3 = \frac{3(7+1)}{4} = 6th \text{ value } \rightarrow 6$
13.	The <b>difference</b> between the <b>upper quartile</b>	Find the IQR of: 2, 3, 4, 5, 6, 6, 7
Interquartile	and lower quartile.	
Range	$IQR = Q_3 - Q_1$	$IQR = Q_3 - Q_1 = 6 - 3 = 3$
	The <b>smaller</b> the <b>interquartile range</b> , the <b>more consistent</b> the data.	

### Stage 7: Presentation of Data

Topic/Skill	Definition/Tips	Example		
1. Frequency	A record of <b>how often each value</b> in a set	Number of marks	Tally marks	Frequency
Table	of data <b>occurs</b> .	1	JHT 11	7
		2	1111	5
		3	JHH I	6
		4	JH1	5
		5		3
		Total		26
2. Bar Chart	Represents data as vertical blocks. x - axis shows the type of data y - axis shows the frequency for each type of data Each bar should be the same width There should be gaps between each bar Remember to label each axis.		0 1 2 3 lumber of pets ow	4 ned
3. Types of Bar Chart	<b>Compound/Composite</b> Bar Charts show data stacked on top of each other.	Weight (gm)	Carbon Carbon Aluminum	c
	<b>Comparative/Dual</b> Bar Charts show data side by side.	50 40 30 20 10 0 Jan Fe	Rainfall	iey: ondon ristol
4. Pie Chart	Used for showing <b>how data breaks down</b> <b>into</b> its constituent <b>parts</b> .	Tennis 40		
	When drawing a pie chart, <b>divide 360° by</b> <b>the total frequency</b> . This will tell you how many degrees to use for the frequency of each category.	6 Hockey	0° 144° 80° Netball	
	Remember to <b>label</b> the category that each sector in the pie chart represents.	If there are 40 per each person will of the pie chart.	-	•
5. Pictogram	Uses <b>pictures</b> or symbols to <b>show the</b> <b>value</b> of the data.	Black 🖨 🖨 🕅		<b>A</b> = 4 com
	A pictogram must have a key.	Green	÷	= 4  cars
	- •	Others 🚍 🚍 (		



### Year 9: Right Angled Trigonometry

Angle (0) Degrees	<b>0</b> °	30°	45°	60°	90°
sin( <del>0</del> )	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
cos(θ)	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0
tan(θ)	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	Not Defined

### **Topic: Basic Probability**

Topic/Skill	Definition/Tips	Example
1. Probability	The <b>likelihood/chance</b> of something	
1.11000001111	happening.	
		Impossible Unlikely Even Chance Likely Certain
	Is expressed as a number <b>between 0</b>	
	(impossible) and 1 (certain).	
	Con he expressed as a fraction desired	1-in-6 Chance 4-in-5 Chance
	Can be expressed as a fraction, decimal, percentage or in words (likely, unlikely,	
	even chance etc.)	
2. Probability	<b>P</b> ( <b>A</b> ) refers to the <b>probability that event A</b>	P(Red Queen) refers to the probability
Notation	will occur.	of picking a Red Queen from a pack of
		cards.
3. Theoretical	Number of Favourable Outcomes	Probability of rolling a 4 on a fair 6-
Probability	Total Number of Possible Outcomes	sided die $=\frac{1}{6}$ .
4. Relative	Number of Successful Trials	A coin is flipped 50 times and lands on
Frequency	Total Number of Trials	Tails 29 times.
		The relative fragments of active T-il-
		The relative frequency of getting Tails
		$=\frac{29}{50}$ .
5. Expected	To find the number of expected outcomes,	The probability that a football team
Outcomes	<b>multiply</b> the <b>probability</b> by the <b>number of trials</b> .	wins is 0.2 How many games would you expect them to win out of 40?
		you expect them to will out of 40?
		$0.2 \times 40 = 8 games$
6. Exhaustive	Outcomes are <b>exhaustive</b> if they <b>cover the</b>	When rolling a six-sided die, the
	entire range of possible outcomes.	outcomes 1, 2, 3, 4, 5 and 6 are
	The probabiliting of an exhaustive set of	exhaustive, because they cover all the
	The <b>probabilities</b> of an <b>exhaustive</b> set of outcomes <b>adds up to 1</b> .	possible outcomes.
7. Mutually	Events are mutually exclusive if they	Examples of mutually exclusive events:
Exclusive	cannot happen at the same time.	y
		- Turning left and right
	The <b>probabilities</b> of an exhaustive set of	- Heads and Tails on a coin
	mutually exclusive events adds up to 1.	Examples of non-mutually analysis
		Examples of non mutually exclusive events:
		Cronto.
		- King and Hearts from a deck of cards,
		because you can pick the King of
		Hearts
8. Frequency	A diagram showing how information is	Wears glasses
Tree	categorised into various categories.	18 Does not wean
	The <b>numbers</b> at the ends of branches tells	Bolts Does not wear glasses
	us how often something happened	
	(frequency).	Giny Wears glasses
		Does not 8
		Does not wear glasses

	The <b>lines</b> connected the numbers are called <b>branches</b> .									
9. Sample	The set of all possible outcomes of an		+	1	2	3	4	5	6	
Space	experiment.		1	2	3	4	5	6	7	
			2	3	4	5	6	7	8	
			3	4	5	6	7	8	9	
			4	5	6	7	8	9	10	
			5	6	7	8	9	10	11	
			6	7	8	9	10	11	12	
10. Sample	<ul> <li>A sample is a small selection of items from a population.</li> <li>A sample is biased if individuals or groups from the population are not represented in the sample.</li> </ul>	A samp from a						0	10 s	students
11. Sample	The larger a sample size, the closer those	A samp	ole s	size	of 1	100	giv	es a	mo	re
Size	probabilities will be to the true probability.	reliable	e res	ult	thar	n a s	sam	ple	size	of 10.

FOUNDATION WRITING : D	escribing a photo	Year 9 German	n Knowledge Organiser:	Half Term 5	
Was gibt es auf dem Foto ?	What is in the photo ?				
Es gibt	There is/ are	Was für Musik hörst du	What kind of music do	Questi	on words
einen Mann einen Junge eine Frau eine Familie ein Mädchen zwei Männer zwei Frau <b>en</b> zwei Jungen viele Leute einen Bahnhof	a man a boy a woman a family a girl two men two women two boys lots of people a train station	Was für Musik hörst du gern ?Wer ist dein Lieblingssänger / deine Lieblingssängerin ?Wann/ wie/ wo hörst du Musik ?Was hast du als letztes gehört ?Wann bist du zuletzt auf ein Konzert gegangen ? die Dance-Musik	What kind of music do you like listening to ? Who is your favourite singer (m) (f)? When/ how/ where do you listen to music ? What was the last thing I listened to ? When did you last go to a concert ? dance music	Questi Was ? Wo ? Wie ? Wann ? Warum ? Was für ? Was für ? Wer ? Mit wem ? Wie so ?	on words What ? Where ? How ? When ? Why ? What sort ? Who ? Who with ? Why ?
ein Geschäft/ ein Laden einen Flohmarkt eine Imbissbude	a shop a flea market a take away, snack stand	der Deutschrap der Hip-Hop	German rap hip-hop	Pronu	inciation
ein Einfamilienhaus eine Wohnung ein Dorf eine Stadt einen Computer einen Fernseher einen Kleiderschrank einen Schreibtisch ein Handy ein T-shirt einen Pullover eine Brille einen Rock eine Hose	a detached house a flat a village a town a computer a TV a wardrobe a desk a mobile phone a T-shirt a jumper glasses a skirt trousers	die klassische Musik der Pop die Rockmusik der Schlager die Volksmusik (Hip-Hop) hat einen tollen Rhythmus beliebt entspannend laut lebendig die Melodie melodisch rhythmisch Texte (pl)	classical music pop rock music German pop folk music (Hip-hop) has a great rhythm popular relaxing loud lively, upbeat melody, tune tuneful rhythmic lyrics	Letter (s) ie w v e j sch sp st z ei au eu ö ü ä	Sound ee v f uh yuh shh shp sht ts eye ow oy er oo e
ein Hemd Kleidung/ Klamotten gestreift kariert	a shirt clothes striped checked	Ich höre (nicht) gern Ich höre lieber	I (don't) like listening to I prefer listening to	on how to these let	<b>iseful videos</b> o pronounce tters on the <b>gton MFL</b>

YouTube Channel.

INFINITIVE	PAST	IMPERFECT	PRESENT	FUTURE	
SPIELEN = to play	Ich habegespielt	Ich spielte	Ich spiele	Ich werdespielen	
MACHEN = to do	Ich habegemacht	Ich machte	Ich mache	Ich werdemachen	
WOHNEN = to live	Ich habegewohnt	Ich wohnte	Ich wohne	Ich werdewohnen	
HÖREN = to listen	Ich habegehört	Ich hörte	Ich höre	Ich werdehören	
KAUFEN = to buy	Ich habegekauft	Ich kaufte	Ich kaufe	Ich werdekaufen	
BENUTZEN= to use	Ich habebenutzt	Ich benutzte	Ich benutze	Ich werdebenutzen	
ARBEITEN = to work	Ich habegearbeitet	Ich arbeitete	Ich arbeite	Ich werdearbeiten	
Zeit VERBRINGEN mit = to spend time with	Ich habe Zeit mit der Familie verbr <b>a</b> cht	Ich verbrachte Zeit mit der Familie	Ich verbringe Zeit mit der Familie	Ich werde Zeit mit der Familie verbringen	
LESEN = to read	Ich habegelesen	Ich las	Ich lese	Ich werdelesen	
SEHEN = to watch	Ich habegesehen	Ich sah	Ich sehe	Ich werdesehen	
ESSEN = to eat	Ich habegegessen	Ich aß	Ich esse	Ich werdeessen	
TRINKEN = to drink	Ich habegetr <b>u</b> nken	Ich trank	Ich trinke	Ich werdetrinken	
TRAGEN = to wear	Ich habegetragen	Ich trug	Ich trage	Ich werdetragen	
FINDEN = to find	Ich habe esgef <b>u</b> nden	Ich fand es	Ich finde es	Ich werde esfinden	
HELFEN = to help	Ich habegeh <b>o</b> lfen	Ich half	Ich helfe	Ich werdehelfen	
Sport TREIBEN = to do sport	Ich habe Sport getr <b>ie</b> ben	Ich trieb	Ich treibe Sport	Ich werde Sport treiben	
GEHEN = to go	Ich <b>bin</b> ge <b>gang</b> en	Ich ging	Ich gehe	Ich werde gehen	
FAHREN = to travel	Ich <b>bin</b> gefahren	Ich fuhr	Ich fahre	Ich werdefahren	
SEIN = to be	Ich bingewesen	Ich war	Ich bin	Ich werdesein	
HABEN = to have	Ich habegehabt	Ich hatte	Ich habe	Ich werdehaben	

<b>Opinions</b> Ich mag mein Haus.	I like my ho		Year 9 Ger	man Knowledge Organiser: H	Half Term 6				
Ich mag nicht meine Stadt.	,				·				
Ich liebe Schokolade.	I love choco		<b>Opinion Adverbs</b>	Adverbs of frequency	Question words				
Ich hasse Federball.	I hate badm								
Timperley gefällt mir	I like Timpe		Rule: ADD to the VERB.	Rule: ADD to the VERB.	Was ? What ?				
Ich interessiere mich für Mo		sted in fashion.			Wo? Where?				
Mein Handy ist mir wichtig.		s important to me.	Ich trage <b>gern</b> Jeans.	Ich trage <b>nie</b> Jeans.	Wie? How?				
Musik macht mich glücklich	1	•	I like to wear jeans.	Ich trage <b>immer</b> Hose.	Wann? When?				
Sport ist nicht mein Ding.					Warum ? Why ?				
Ich finde das teuer				k. oft <i>often</i>	Was für ? What sort ?				
Ich denke, dass	I think that	Apensive.	Ich trage <b>lieber</b> einen Rock I prefer to wear a skirt.	immer <i>always</i>	Wer? Who?				
Ich glaube, dass	I believe that	at	,	ab und zu now & again	Mit wem ? Who with ?				
Ein Vorteil ist, dass	An advantag		Ich trage am liebsten Ohrrir		Wie so ? Why ?				
Ein Nachteil ist, dass	A disadvant	-	I like to wear earrings most/be		,				
Meine Eltern denken, dass	My parents	5							
Meine Mutter glaubt, dass	<i>i</i> 1	believes that	Sequencing words:	Use a variety of connectives	•				
			Jeden Tag everyday	e normal position.					
Qualifiers	More interesting	adiectives	Zuerst first of all und and						
sehr very	blöd	rubbish	Dann then, next	n then, next denn because					
wirklich quite	unterhaltsam	entertaining	Danach afterwards	oder or					
ganz quite	lässig	relaxed	<i>Später</i> later	aber aber					
<i>echt</i> really	idyllisch	idyllic	Zum Schluss finally	1 2					
zu too	gemütlich	cosy	<i>Endlich</i> finally	Ich benutze das Internet <b>und</b> ic	h chatte mit Freunden.				
Past Time Expressions:		Future Time Ex	pressions:	Sticking: the verb sticks to it	<u>t.</u>				
Gestern	yesterday			jedoch however					
Letztes Wochenende	last weekend	Morgen	tomorrow	verb					
Letztes Jahr	last year	Nächstes Wocher	next weekend	Ich mag Wasser, <b>jedoch</b> trinke	ich lieber Cola.				
Letzten Sommer	last Summer	Nächstes Jahr	next year						
Früher	before	Nächsten Somme	r next Summer	Kicking: kicks the verb to th	<u>e end of the sentence.</u>				
Neulich	recently	In der Zukunft	in the future	weil because					
Damals	Back then			da because/ as					
			<i>erde ich</i> in Berlin <i>wohnen</i>	dass that					
	Damals <i>hatte</i> ich kein Handy. In the future I			obwohl although					
Back then I had no phone.	Back then I had no phone.								
				Ich lade Musik herunter, <b>da</b> es p	praktisch <b>ist.</b>				
50 WORD STRATEGY 10 WORDS for each bull Present tense.	et point.		ATEGY each bullet point. AND 2 opinions.						

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SEIN = to be	Ich bingewesen	Ich war	Ich bin	Ich werdesein	
HABEN = to have	Ich habegehabt	Ich hatte	Ich habe	Ich werdehaben	

<u>Year 9 French FOUNDATION Knowledge Organiser</u> <u>HT 6 – End of Year Revision</u>						J	Giving an opinion         J'apprécie       I appreciate         Ça me fait       It makes me        rire      laugh		It makes me	La nourriture le pain le beurre le poulet	<b>Food</b> bread butter chicken
Past J'ai joué J'ai mangé J'ai nagé J'ai regardé J'ai visité J'ai bu J'ai fait Je suis allé(e) C'était	I played I ate I swam I watched I visited I drank I did I went I went It was	Present Je joue Je mange Je nage Je regarde Je visite Je visite Je bois Je fais Je vais <b>C'est</b>	I play I eat I swim I watch I visit I drink I do I go <b>It is</b>	FutureJe vais jouerI'm going to playJe vais mangerI'm going to eatJe vais nagerI'm going to swimJe vais regarderI'm going to watchJe vais visiterI'm going to visitJe vais boireI'm going to visitJe vais faireI'm going to doJe vais allerI'm going to goCe seraIt will be		rat Je wim À vatch J' isit J' Irink J' Io J' Io J' Je Je	pleurer peur Je pense que À mon avis Je préfère J'adore J'aime bien J'aime bien J'aime beaucoup J'aime Je n'aime pas Je déteste Je ne supporte pas		laugh cry scared I think that In my opinion I prefer I love I really like I like better I really like I like I don't like I hate I can't stand	une banane une pomme les bonbons les chips la dinde les frites le fromage les fruits les fruits de m les légumes un oeuf les sucreries un gateau une glace	a banana an apple sweets crisps turkey chips cheese fruit er seafood vegetables an egg sweet things a cake an ice cream
Frequency work Souvent Quelquefois Parfois Normalement De temps en te Tous les weeke Une/ deux fois par semaine Nejamais Neplus	Ofter Som Some Norn mps From nds Even Once neve	OftenConnectivesSometimesMaisButSometimesCependantHoweverNormallyAussiAlsopsFrom time to timePuisThen			Int Vra Trè Ass	ensifiers aiment ès sez peu	Really Very Quite A little bit too	le poisson la viande l'eau un jus d'orang le lait le vin la bière <u>Adjectives</u> ennuyeux drôle rasant	fish meat water e an orange juice milk wine beer Boring Funny Boring		
Le weekend	Act the weekendveekend dernierLast weekendhatinIn the morningrès-midiIn the afternoonpirIn the eveningedi dernierLast Saturday			eat a lot c don't do e drink lots go to the smoke. good for yo	at a lot of fruit/vegetables on't do enough exercise. rink lots of water. o to the gym.			barbant passionnant amusant égoïste mignon jaloux fidèle têtu riche content	Boring Exciting Fun/funny selfish cute jealous loyal stubborn rich happy		

### Year 9 French HIGHER Knowledge Organiser

#### HT 6 – End of Year Revision

Past (Perfect)		Pas	st (imerfect	)	Present		Future (futur p	oroche)		Future (futur	simple)		
J'ai joué	I played		ouais	I was playing	Je joue	I play	Je vais jouer	l'm going	to play	Je jouerai	I will pl	21/	
, J'ai mangé	l ate	-		/used to play	Je mange	l eat	Je vais manger				l will ea	•	
J'ai nagé	Iswam	l Je i	mangeais	I was eating/	Je nage	I swim	Je vais nager	l'm going		Je mangerai			
J'ai regardé	I watched			used to eat	Je regarde	I watch	Je vais regarde			Je nagerai	l will sv		
J'ai visité	l visited	 Ier	nageais	I was swimming/	Je visite	l visit	Je vais regarde			Je regarderai			
J'ai bu	I drank	JC .	lageais	used to swim	Je bois	I drink	Je vais visiter Je vais boire	l'm going		Je visiterai	I will vi		
J'ai fait	I did	ر ما ا	regardais	I was watching/	Je fais	I do		l'm going		Je boirai	I will dr		
Je suis allé(e)		1 26 1	egaruais	used to watch	Je vais		Je vais faire	l'm going		Je ferai	I will do		
	l went					l go	Je vais aller	l'm going		J'irai	I will go		
J'ai eu	I had	l le i	visitais	I was visiting/	J'ai	I have	Je vais avoir	l'm going		J'aurai	I will ha	ave	
C'était	It was	Ι.		used to visit	Je suis	l am	Je vais être	l'm going		Je serai	l will be	e	
		1	ouvais	I was drinking/	C'est	lt is	Ce sera	It will be					
Frequency wor	-		<b>.</b> .	used to drink					Les loisirs		Leisure		
Souvent	Often	Jet	faisais	I was doing/	Après avoir 4	Past participl	e After havin	g	Les coméd	lies	Comedie	S	
Quelquefois	Sometimes			used to do	  / l'ai l'intentio	n de <b>+ infinitiv</b>	<b>/e</b> Lintend		Les séries		Police se		
Parfois	Sometimes	J'al	lais	I was going/					Les feuillet	•	Soaps		
	Normally			used to go	Il faut/On do	oit <b>+ infinitive</b>	You must			ons musicales	•	ogrammes	
De temps	<b>F 1</b>		vais	I had/used to have	Giving an opi	nion			1	ons de sport		ogrammes	
en temps	From time to	J'ét	tais	I was/used to be	J'apprécie		I appreciate		Les émissio	•	-	-0	
To at la tanana	time				Ca me fait		It makes me		science-fic		Science-fic	tion progra	immes
Tout le temps			Adjective	25	rire		laı		Les émissio				
Tous les weeke			ennuyeu		pleı	irer	cr	-	télé réalité	<u>5</u>	Reality TV	shows	
•	weekend		drôle	Funny	pieu			, ared	Les jeux té		, Game sho		
Une/ deux fois			rasant	Boring	Je pense que	•	I think that	uica	Les dessins	s animés	Cartoons		
par semaine	Once/twice a	1	barbant	Boring	À mon avis		In my opinic	n	faire du VT	ГТ	to do mou	untain bikin	g
	week		passionn	J	Je préfère		l prefer		faire de l'a		to do athl		0
Nejamais	never		amusant	U U	Je <b>les</b> aime		l like <b>them</b>		faire des ra	andonnées	to go hikir	ıg	
Neplus	no more/no		égoïste	selfish	Je <b>l'</b> aime		l like <b>it/him</b>	/her	s'entraînei		to train	0	
	longer		mignon	cute	J'aime bien		I really like		lire		to read		
			jaloux	jealous	J'aime mieux.		I like bette	٥r					
			fidèle	loyal	J'aime beauco		I really like		Connectiv	es	où		where
			têtu	stubborn	Je me passion	•	I'm passiona	ate about	car	because	pou	rtant	howe
			riche	rich	•	e à la/au/aux	•		comme	as, since	у со	mpris	inclu
			content	happy		le plus, c'est			de plus	what's m			
					Je ne support	•	I can't stand		donc	therefore			
					Je ne support	c pus	i cui i stano	1	finalement	t finally			



## Year 9 Music – T3: School of Rock

### **KEYWORDS**

Rap	Stands for 'rhythm and poetry'. Speak- ing lyrics to a beat.	Performing Four Chord Pop Songs – Drum kit f you don't have access to a drum kit, use the drum kit sounds on the eyboard. Look for the symbols above the notes on the keyboard.
Ensemble	A musical group, e.g. a band/choir/ orchestra.	Simple       1       &       2       &       3       &       4       &       Basic       1       &       2       &       3       &       4       &         Hi-Hat       Image: Sinare       Image:
Rock	A genre of pop- ular music that evolved from rock and roll and pop music during the 1960s.	Bass ())       •<
Lyrics	The words to the song.	Bass ()  Bas
Rhyme	Words with endings that sound the same, e.g. bend and friend, said and shed, day and way.	Performing Four Chord Pop Songs - Guitar
Chord Progression	Movement from chord to chord	
	own piece of music.	
Chorus	of the song that is repeated after each verse. In rap songs, the chorus is usually the part that is	This is an example of the C chord. Figure the rest out in your group.
	Rap Ensemble Rock Lyrics Rhyme Chord	Ittip'rhythm and poetry'. Speak- ing lyrics to a beat.EnsembleA musical group, e.g. a band/choir/ orchestra.RockA genre of pop- ular music that evolved from rock and roll and pop music during the 1960s.LyricsThe words to the song.RhymeWords with endings that sound the same, e.g. bend and friend, said and shed, day and way.Chord ProgressionMovement from chord to chordComposeTo create your own piece of music.ChorusThe catchy part of the song that is repeated after each verse. In rap songs, the chorus is usually

## Year 9 Unit 3: Living in the Wider World

### **KNOWLEDGE**

**L1.** study, organisational, research and presentation skills

**L2.** to review their strengths, interests, skills, qualities and values and how to develop them

**L3.** to set realistic yet ambitious targets and goals

**L4.** the skills and attributes that employers' value

**L5.** the skills and qualities required to engage in enterprise

**L6.** the importance and benefits of being a lifelong learner

**L8.** about routes into work, training and other vocational and academic opportunities, and progression routes

**L9.** the benefits of setting ambitious goals and being open to opportunities in all aspects of life

**L10.** to recognise and challenge stereotypes and family or cultural expectations that may limit aspirations

**L13.** about young people's employment rights and responsibilities

**L14.** to manage emotions in relation to future employment

### <u>SKILLS</u>

1. Engage with and reflect on different ideas, opinions and beliefs to help develop personal opinion.

 Can express and explain opinions through discussion and written work.
 Develop empathy with others and an understanding of how to safely and respectfully interact.

4. Is reflective about the knowledge and skills needed for setting realistic targets and personal goals.

 5. Work individually and with others to negotiate, plan and take action.
 6. Can recognise and reduce risk, minimising harm and getting help.
 7. Develop skills of enquiry and advocacy via research and group work







## Y9: Unit 3 Humanism

Humanism in the UK is a growing movement that seeks to separate religion from state. Ultimately Humanists want equality and fairness for all human beings and they believe that this cannot be achieved when religion governs our laws, morals and education systems. In this unit you will consider what it actually means to be a Humanist today and how this world view has an impact on ethical decision making and philosophical enquiry. Would the world be a better place if we were all Humanist?

## Knowledge Organiser

### Lesson 1-2

### What does it mean to be Humanist?

Society is progressing and becoming increasingly secular (non-religious) – so what is Humanism?

## Is religion necessary in the 21<sup>st</sup> century? A humanist view of society.

Some people argue that religion is a danger to society and it is now time to put our faith into other things. Are Humanists right when they say religion isn't needed anymore?

### Lesson 3-4

### Euthanasia, abortion and animal testing. How do Humanists view these issues?

Humanists don't believe in the sanctity of life and so what do they believe about modern ethical issues surrounding human and animal life?

## Organ donation after death – should we all do it?

Organ donation is something that many people think about but what are the laws in the UK and why might it be important for us to consider in a religious world?

### Lesson 5-6

## What do Humanist marriages/funerals look like?

If Humanists aren't religious how do they mark important events in life and are they seen to be as important to them as they are to religious people?

## What are Humanist views on life and death?

Humanists have a very different outlook on death than most – what are their views and why might they be considered to be quite refreshing?

### Lesson 7-8

### End of year exam and feedback

Your end of year examination will not only include elements of Humanism but also Christianity and Buddhism. Crucially, you need to be able to compare and contrast elements of each of the movements you have studied this academic year.







better hope – brighter future





PiXL					Displayed formu	la for	first four alkar	nes			Each	n fraction contains	PIXL
Partners in excellence Crude oil	A finite resourc	Consisting mainly of plankton that was buried in the mud, crude oil is the remains of ancient		and alkanes		H H H $-C$ $-C$ $-H$ H H H H Ethane (C <sub>2</sub> H <sub>6</sub> )		Fractions	The hydrocarbons in crude oil can be spli into fractions	t num them do th	ecules with a simila ber of carbon aton n. The process used his is called fractior llation.	nr sin d to	
Hydrocarbon	s These make up to majority of the compounds in crude oil	e Inese (	compounds are up of hydrogen and	alkanes	H H H H-C-C-H H H H Propane ( $C_3H_8$ )	F	H H H H H-C-C-C-C-C- H H H H H H H H Butane (C <sub>4</sub> H <sub>10</sub>	—н )	Using fractions	Fractions can be processed to produce fuels and feedstock for	these and l Man	depend on many of e fuels; petrol, dies kerosene. ny useful materials a	sel
General formula for alkanes	C <sub>n</sub> H <sub>2n+2</sub>	For exa	mple: C <sub>2</sub> H <sub>6</sub>	(	Carbon compo and feed				petrochemical industry	made by the petrochemical industry; solvents, lubricants and polymers.			
The brea	king down of The	e smaller chai	$C_6H_{14}$ ns are more useful.		SCIEN		<b>C</b> 0	F		istillation and nemicals		20	°C Butane & Propane
into smaller, more useful metho		-	done by various ng catalytic cracking	and	Fuels (Pa		- 1	chains	s in	rbon chains in crude lots of different lengt		<u> </u>	Petrol
Sulfur dioxide	Released from burning hydrocarbons with sulfur impurities in			nages plai ats acidic stone and	ges plant life and can es acidic. Acid rain can			dep fractio	e boiling point of the chain bends on its length. During bonal distillation, they boil and ate at different temperatures due to this.			°C ກ_ກ_t_ Diesel °C ກ_ກ_t_ Fuel Oil	
Oxides of nitrogen	Oxygen and nitrogen react from the air under highAs pollutan rain and are			tides of nitrogen cause acid classified as greenhouse e respiratory problems.			During				lunace		Lubricating oil, Parrafin Wax, Asphalt
Hydrogen fuel	Hydrogen reacts with oxygen in the engine as a fuel for	<ul><li>Water is</li><li>No gree</li><li>Renewa</li></ul>	Advantages: - Water is the product - No greenhouse gases released - Renewable Disadvantages:				hydrocarb and hydro are oxidi carbon dio	gen ir sed, r xide,	he carbon n the fuels releasing water and	Complete combustion of methane: Methane + oxygen $\rightarrow$ carbon dioxide + water + energy $CH_4$ (g) + 2O <sub>2</sub> (g) $\rightarrow$ CO <sub>2</sub> (g) + 2 H <sub>2</sub> O (I)		ter + energy	
	the vehicle	<ul><li>Expensive to buy</li><li>Difficult to re-fuel</li></ul>					During th	energy During the inco combustio		Boiling point (temperature at which liquid boil		As the hydrocarbo increases, boiling p	-
Fossil fuels	Crude oil, natural gas and coal	gas and coal is found in natural gas and is also			enewable.	te combus	for comple for comple for comple for comple the pro reactio		available mbustion.	Viscosity (how easily it flow	ws) As the hydrocarbon chain lea increases, viscosity increas		-
Incomplete combustion issues	Carbon monoxide is an odourless, toxic gas that can kill		s up in the ng. This reduces the h and can alter	Incomplex	The pro reaction monoxid	on is c	arbon bon and	Flammability (how easily it burn		As the hydrocarbo ncreases, flammab	-		
					better hope -	_ hric	abter future						

## Science – Physics: P2 Motion



## **Science Physics – P1 Maths in Science**

In Science, all scientists use SI units to measure certain quantities.

We use multiples and sub-multiples of SI units if quantities are very large or very small.

Quantity	SI unit	Abbreviation			
Distance	metre	m			
Mass	gram	g			
Time	second	S			
Current	ampere	А			
Temperature	kelvin	К			
Concentration	mole	mol			
Frequency	hertz	Hz			
Force	newton	Ν			
Energy	joule	J			
Power	watt	W			
Pressure	pascal	Pa			
Electric charge	coulomb	С			
Potential difference	volt	V			
Electric resistance	ohm	Ω			
Magnetic flux density	tesla	Т			

