Wellington School



Knowledge Organisers Year 8 Spring 2021

Knowledge Organisers

Some subjects like Design Technology organise the curriculum on a carousel, as such all the organisers for that subject are in the Spring Term booklet.

<u>Contents</u>

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 the Autumn Term.

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.

Y8 ART SKILLS P KNOWLEDGE ORGANISER

You will be completing a series of skills-based work during the January half term These skills will be revisited throughout the year in class and homework – and can transfer across different materials and in different combinations





RANDOM

CROSS HATCH

PENCIL TONE

Complete drawings to show a full range of tone Try a 2B pencil to achieve this Use your pencil lightly in planning work

COLOUR BLENDING

Layer different colour pencils to mix the correct shade Build up layers lightly Use colour wheel to help you mix shades

MARK MAKING

Shows the surface of an object &/or highlights a materials qualities Look at the different ways the marks have been applied - the more marks – the darker the tone Surface detail/pattern can also reference an artist's application technique This is about control of the marks & focus to maintain it

Top Tip

Always draw what you see – not what you think you see





Mix your colours carefully Follow the structure/steps from staff Use the brush as directed

PAINTING

Use the brush as directed Consider paint consistency– wash, flat block, thick, textured Allow layers to dry Start with base layers & work towards details & darker colours

COLLAGE

Plan accurate shape of your object/image Cut & tear paper carefully Select colours to show tone Use magazines, free papers, scrap

> **Top Tip** You must focus on your work to build on your skills Use lesson time as directed

Check out our Instagram for inspiration and our YouTube channel for some videos of many of these skills



A merge sort compares the first item in a two lists, removing the lowest and adding it to a new list. [54] [36] [40] [88] [8] [2] [1] [3] [40,88] [2,8] [1,3] [36,54] [2,8,40,88] [1,3,36,54] [1,2,3,8,36,40,54,88]

A **binary search** works by looking for items in an **ordered list**. The middle item is examined and half the list discarded. This happens until there are no items in the list or the item is found. Here is an example:

A. Search for **77**

B. Examine middle element of list (54)



A **bubble sort** compares the first two items in a list, swapping if they are in the wrong order. It then moves to the next two items, until the end is reached. This happens repeatedly until there are no more items to swap. One pass through the list sends the highest value to the rear.

77	73	95	22
73	77	95	22
73	77	95	22
73	77	22	95
73	77	22	95
73	22	77	95
22	73	77	95

A bubble sort is much less *efficient* than a merge sort. It will take much longer to carry out on larger lists.

"A step-by-step process to perform a task.

2

KS3 Computing: Algorithms

```
from turtle import *
down()
fd(50)
rt(90)
fd(50)
rt(90)
fd(50)
rt(90)
fd(50)
rt(90)
fd(50)
rt(90)
up()
```

This program draws a square. The **sequence** of instructions is important. If they are in a different order, the outcome of the program will be different.

down() and up() tell the turtle to start and stop drawing.

fd(50) moves the turtle forward 50 steps.

rt(90) rotates the turtle 90 degrees to the right (clockwise)

```
from turtle import *
down()
for i in range(4):
    fd(50)
    rt(90)
up()
```

This program does exactly the same thing. However, it uses a loop to repeat instructions, making it shorter and therefore easier to edit if necessary. This is known as **iteration**.

for i in range(4):

means to repeat the instructions that are indented 4 times.

```
from turtle import *
sides = 4
steps = 50
down()
for i in range(sides):
    fd(steps)
    rt(360/sides)
up()
```

The program has been improved further here. It uses two **variables**, *sides* and *steps*.

This makes the program more flexible, by being able to draw shapes of different number of sides.

The number of degrees to rotate has been calculated by an

arithmetic operation:

 $360 \div$ sides. We use '/' as the division operator (instead of \div) in computing.

Computing: Programming with Python

```
from turtle import *
sides = input("How many sides?")
sides = int(sides)
steps = 50
down()
for i in range(sides):
    fd(steps)
    rt(360/sides)
up()
print("I've drawn a shape with",sides,"sides")
```

This time the program asks the user how many sides the shape should be. This is known as **user input** and the answer is stored in the variable *sides*.

Once the shape has been drawn, the program **outputs** text to the screen.

```
from turtle import *
```

```
print("Type r for a red shape, or b for blue")
col = input("")
if col == "r":
    color("red")
else:
    color("blue")
```

Finally, the user is given a choice of colours.

The user enters a colour which is stored as variable `col'

This part of the program uses a **Boolean expression** to compare col variable with 'r'.

If this is *true* (the users types 'r'), the pen colour is red.

If this is *false* (the user doesn't type 'r'), the pen will be blue. *If... else* statements are known as **selection**.

Drama Knowledge Organiser: Year 8

Marking the moment

Cross - cutting

Humpty Dumpty Creating and devisi Basic technique - T Improvisation- crea Using a script to cr Non-naturalistic pe Sound scape - crea Engaging the audied	ng performances based arour ableaux, thought track and h ating a performance on the sp reate a character on stage. erformance style. ting noise using voice and boo nce through creating a tense	nd the theme 'Bullying'. ot seating. pot. ly as an ensemble. atmosphere on stage.	Soap Ope Soap event Soap naugh Story death Role Cross Mark	Opera is a genre. A radio opera is a genre. A radio opera have stereotypical c nty teenager, the lad and t vlines reflect real life issue n. on the wall- develop charac scutting - Two scenes happ ing the moment - highlight	or television drama dealin characters such as: The g he strong female. es such as mental health, cterisation. ening at the same time wi ing an important moment	ng with daily randparent, the marriages and th a split stage. in the play.
 Christmas Carol An interpretation selfish man call Charles Dickens Role-play - action characterisation Scrooge- selfistic His personality who appreciate Tiny Tim - A characteris The Ghosts - Comparison 	ion of the book 'A Christmas ed 'Scrooge'. s is a writer, journalist and ed ng out scenes from the book n. changes after Christmas to d s his family. maracter who is disabled and n hristmas past, present and fu	Carol' about a rich and ditor in the 1800's. to develop s pushed his family away. a joyful and selfless man needs the help of his uture.	Blood Br	others Willy Russle wrote the p The main characters are separated by birth. Mrs Johnstone and Mrs Liverpool at the time. T Linda is both brothers' l Prologue – Piece of text about to happen. Musical theatre- Theat	play Blood Brothers in the e Edward and Mickey; two tyons demonstrate the c hey are both the parents best friend and Mickey's before the action explain re created with song.	2 1970's. twins lass divides in of the boys. future wife. hing what is
STUDYING DRAMA T	HROUGH TEXT		Borstal			
 Understanding Monologues - C Exploring how a What is the put 	language and dialogue to inte ine-character revealing infor characters develop as the plo rpose of the play? Why was	rpret plot and character mation to an audience t progresses s it written?	•	Borstal is a youth offen Monologue - One speech audience about yourself Non- naturalistic style - ensemble and narration. Teacher in role - teacher realism for the student: Script writing - to deve Research into real life p	ding prison in the early 19 n on stage in character te - - Tableaux, thought track er acting in role to create s. lop a monologue using stag people using real life acco	100's. ling the ing, transitions, a sense of ge directions. unts.
KEY WORDS FOR YEA	AR 8 DRAMA					
Pitch Choral Speaking	Pace Role on the wall	Pause Gait		Volume Body Language	Tone Facial Expression	Diction Posture

Direct Address

Interpretation of text

Genre

Style

Year 8 Cooking & Nutrition Mediterranean Cuisine Knowledge Organiser



Example Time Plan

Time	Process	Hygiene & Safety
8:50 - 9:00	Collect all equipment and ingredients. Wash hands.	ls fridge 0°C – 4°C?
9:00 – 9:15	Dice onion, peppers and mushrooms.	Use a green chopping board. Use bridge and claw techniques.
9:15 – 9:30	Thread vegetables onto a skewer. Make dressing.	Ensure skewer has been soaked in cold water.

Mixing i Resting

Baking Cooling Slicing

Kneading 🦾

Dividing/Moulding

Proofing

Packaging



These kind of tests can be used to find out what people particularly like about a food product to help build up a profile of it according to a



garlic

Keyvocabulary			
Design Brief	An written outline which		
-	explains the aims and		
	objectives and milestones of a		
	design project.		
Task Analysis	Breaking a design brief down to understand the requirements of the task.		
Target Audience	The person or people most likely to be interested in your design or product.		
Mediterranean Cuisine	Food from the countries that surround the Mediterranean Sea.		

Year 8 Product Design Knowledge Organiser

Automata Project

design

technology

Key Skills

- Responding to a Design Brief
- Analysing & researching information
- Creating a suitable idea for a target audience
- Isometric drawing techniques
- Developing CAD drawing skills using:
 - Serif Draw / Techsoft Design
- Rendering techniques
- presentation skills
- Developing & testing
- Manufacturing with modelling materials (card & paper)
- Evaluating the design & making process



	Key vocabulary
Design Brief	An written outline which explains the aims and object project.
Target Audience	The person or people most likely to be interested in y
Function	What a product does, how it works and what it will be
Mechanism	A system of parts working together in a machine.
Motion	Something moving or being moved.
Cam	A rotating or sliding piece used to transfer rotary mo
Modelling	To present ideas to the user (target audience) or clier
Evaluating	To judge or calculate the quality, importance, amount
Linea Motion	Motion moving along a straight line.
Rotary Motion	Motion moving clockwise or anti-clockwise.





Year 8 Textiles Knowledge Organiser

Sustainable Children's Toy

Key Skills

- Responding to a Design Brief
- Analysing existing products
- Identifying a target audience
- Designing & annotating to include a range of a range of decorative and construction techniques
- Demonstrating ability to complete decorative techniques:
 - Appliqué (hand)
 - Reverse appliqué (hand)
 - Hand embroidery stitches (running stitch, blanket stitch & French knots)
- Using a range of construction techniques:
 - 3D features
 - Inserting wadding
 - Applying buttons & googly eyes
 - o Seams







Health & safety	
Follow teacher instructions	Consideration of a
Move slowly around the room do not run	
Tie long hair back	Interactive
Hold scissors or shears correctly when walking around the room.	Components used a decoration
Report any injuries or breakages to the	Recycled fabrics us
eacher immediately	3D features
	Hand embroidery

	Key vocabulary
Interactive	Components or features that can be attached
Materials	What the product is made from?
Components	The parts/materials/threads needed to make
3D features	Use of wadding to make a feature stand up or
Function	What a product does, how it works and what i educational or both?
Aesthetics	How a product or design looks .
Target Audience	The person or people most likely to be intere
Embroidery	Even stitch widths and lengths completed by
Reverse appliqué	A decorative technique whereby a fabric is se is visible from the front
Sustainable	Conserving an ecological balance by avoiding
Appliqué	A decorative technique whereby one material
Design Brief	An written outline which explains the aims a design project.



Product features				
specified	Appliqué or reverse appliqué			
	Creative & individual			
as	Features are in proportion to the body shape			
sed	Accurate machine stitches			
	Seam allowance			
	Sustainable			

/detached or have different textures

a product.

r raised off the backing fabric

it will be used for? Is it sensory or

sted in your design or product.

hand sewn stitches

ewn on the reverse of the top fabric and

g the depletion of natural resources.

is sewn on top of another by machine

and objectives and milestones of a

Year 8 Design & Technology (Graphic Products) Knowledge Organiser

Pop Up Story Book

Key Skills

- Responding to a Design Brief
- Analysing & researching information
- Creating a suitable and appealing story idea for an identified target audience
- Developing CAD drawing skills using:
 - \circ Serif Draw Plus
- Manipulating/editing images & graphics in 2D & 3D
- Rendering shapes, images with colour & texture
- Layout & placement of images and text to scale
- Developing & testing Pop-Up mechanisms
- CAD modelling & presentation skills
- Using a Stanley knife (cutting mat, safety ruler) to cut, score & fold
- Manufacturing with modelling materials (card & paper)
- Marketing point of sale display design
- Evaluating the design & making process





Key vocabulary

Design Brief	An written outline which explains the aims and obje project.
Target Audience	The person or people most likely to be interested in y
Function	What a product does, how it works and what it will be
Aesthetics	How a product or design looks
CAD	Computer aided design
Rendering	The process of adding shading, colour, texture or ma
Materials	What something is made from e.g. paper & card.
Modelling	To present ideas to the user (target audience) or clie
Point of sale display	A specialised form of sales promotion found near or
	customers' attention to the products,



ENGLISH KNOWLEDGE ORGANISER: OUR SOCIETY

YEAR: 8 UNIT: 3

HOW TO ST	RUCTURE VIEV	VPOINT WRITING	ADVANCED SEN	ITENCE STRU	ICTURES AND PATTERNS		
This is an advised structure that we often use at GCSE as well to ensure that you have enough to write.		*litotes	Begin with the	Begin with the negative: use 'Nothing' or 'Never' for example			
		*hypohora	A rhetorical qu	A rhetorical question that is answered			
Witty			*diacope	Repeated use of the same word within/across sentences			
Witty introduction to build rapport		One sentence RQ or hypophora to move onto advice/points	*isocolon	Series of phras active, keep he	Series of phrases or sentences structured in the same way: <i>Keep fit, keep active, keep healthy!</i>		
		$\mathbf{-}$	*epizeuxis	The repetition of a word or phrase in immediate succession: <i>Run, run, run!</i>			
A conclusion t emphatically as your argument ar	A conclusion that emphatically asserts your argument and links		*anaphora	Using a phrase to begin more than one clause of sentence, such as 'I Have a dream' in Martin Luther King's famous speech			
introductio	n 2		*epistrophe	The repetition	The repetition of a word at the end of successive clauses or sentences		
ADVANCE	D PUNCTUATIO	N	CONVENTIONS	OF DESCRIPT	IVE WRITING		
	Used to replace 'a	nd' in a compound	simile		Phrase with 'as' or 'like' to su	uggest similarity	
*semi-	*semi-						
colon Like an angel, the sun shone; there wasn't a		metaphor		Suggesting something is something else			
			*motif	A metaphor used across a piece of writing			
	Means 'Here's my evidence' and follows a		personification	Given an inanimate object human qualities like movement or emotion			
*colon	simple statement:		allitanation	Denotition of concenent counds			
	Majestically, the p was beautifull	rincess created a stir: sne	anneration	Repetition of consonant sounds			
	Single: Used to er	nphasise a description at	assonance	Repetition of vowel sounds			
	the end of a sent	ence:					
*dash	Happily, the sun sh	one - its rays reached	sibilance	Repetition of 's' sounds		ounds	
dush	Double: Used to emphasise a description with						
further emphasis: The sun's rays - its burning,		pathetic fallacy		Where the weather or setting	g reflects a mood		
	radiant rays - shon	ne across the kingdom.					
KET SPEL	LINGS FOR THIS	SCHEME OF WORK					
rhetoric		statistics	epizeuxis		interrogative (sentences)	simile	
irony		anaphora	hypophora		imperatives	personitication	
anecdote		epistrophe	hyperbole		motif	alliteration	
tripling repetition		exclamation		metaphor	assonance		

ENGLISH KNOWLEDGE ORGA	NISER: ROMANTIC POETRY		YEAR: 8 UNIT: 4	
ROMANTIC POETRY			FAMOUS ROMANTIC POETS	
 Popular poetry of the late 18th and early 19th century 			William Wordsworth (1770-1850)	
• The genre was introduced a	and developed by William Wordswor	th and Samuel Taylor-Coleridge	Samuel Taylor Coleridge (1772-1834)	
Wordsworth's Lyrical Ballace	ds (1798) is the first major collection	on of Romantic Poetry	William Blake (1757-1827)	
Romantic poems celebrated	the natural world		P.B. Shelley (1792-1822)	
Romantics thought we could	l learn from nature and understand	life better from its example	Lord Byron (1788-1824)	
Romantics were fascinated	by the human mind and imagination		John Keats (1795-1821)	
'JERUSALEM' BY WILLIAM B	LAKE	OZYMANDIAS' BY P.B. SHELLI	а т	
• This poem was written by Blake	e by 1820	• This sonnet was written by P.B. S	Shelley in 1818	
• It celebrates the past beauty	of England by comparing it to the	• Shelley wrote this poem, inspired	d by the discovery of the statue of Ramesses	
Holy land of Jerusalem		II in Egypt. He wrote it before t	he statue had even arrived in the British	
• It is a poem that fears the imp	pact of industrial change on	Museum in London, where you car	n still see it today	
beautiful, rural England		• Rameses was a tyrant who had in	mense power in Egypt; he fought many wars	
		and built many monuments to cele	ebrate this power	
KEY QUOTES:		Ozymandias is the Greek name for	or Ramesses II.	
• 'dark satanic mills'				
England's green and pleasar	nt land'	KEY QUOTES:	KEY QUOTES:	
 'Bring me my chariot of fire!' 		• I wo vast and trunkless legs		
		Look on my works, ye Mighty,	, and despair!	
SONGS OF INNOCENCE AND	EXPERIENCE' BY WILLIAM BL	AKE		
These collections of poems	were counterparts to each other: 3	<i>Songs of Innocence</i> was published in 17	89 and the <i>Songs of Experience</i> in 1794.	
 Blake explored childhood in 	nocence in his first collection and t	hen explored the adult world of 'exper	rience' and suffering in a time of	
industrialisation and war. H	ere are some examples			
"THE LAMB" (INNOCENCE) AND "THE T	YGER' (EXPERIENCE)	'THE CHIMNEY SWEEPER' POEMS		
These poems use animal symbolism	to explore the innocence of	These poems explore the experiences of young chimney sweepers. Blake criticises		
childhood (<i>The Lamb</i>) compared to	the corruption and	how institutions like the Church wou	ld justify this child labour through religion	
industrialisation of the Victorian e	era (<i>The Tyger</i>)	with working be the behaviour of goo	od boys.	
The lamb. 'Little Lamb God bless	theel'	The Chimney Sweeper (Innocence):	'Tf all do their duty they need not fear harm'	
The Typer: 'Typer tiper burning t	right/Tn the forests of the night'	The Chimney Sweeper (Innocence)	: 'They clothed me in the clothes of death'	
KEY SPELLINGS FOR THIS SO	HEMEOEWORK	The onininey oweeper (Experience)	· mey clomed me in the clothes of death	
Romanticism	ballad	symbolism	pastoral	
sublime	sonnet	refrain	radical	
beautiful	meter	enjambment	persona	
awesome	rhyme	caesura	speaker	
	1	1	1 •	



Year 8 Geography Unit 2: Population and Migration













Wellington History Year 8 HT 3 Knowledge Organiser Why were the British so keen to build an Empire?

Disease, massacres and the taking of land? How did the British Empire change the World?



		-
 What and why? You will learn about why the British began to conquer colonies and our legacy on the modern world. Stop, think and link: The Roman Empire. Causation Assessment – Why did the British want an Empire? Want to explore further? Book: The rise and fall of the British Empire by Aaron Wilkes Book: We need to talk about the British Empire by Afua Hirsch Book: Barmy British Empire by Terry Deary Websites: https://www.natgeokids.com/uk/discover/history/general-history/british-empire-facts/ 	 Key Questions What do we know about Empires? Why did the British want an Empire? Where and when did the Empire grow? What was life like in British colonies? How did the British keep control of their Empire in the 18 and 19th Centuries? 	Keywords Empire When one country rules land outside of it's own borders Colony Lands belonging to an Empire Trade The exchange of money and goods Nationalism Thinking your country is better than all others Indigenous Deeple who originally live in a land
https://www.bbc.co.uk/bitesize/guides/zf7fr82/revision/1	How should we remember the Empire?	Independence
	Key events and Key People 1600 East India Company granted a royal charter 1606 Virginia Company granted a royal charter 1627 Barbados Company granted a royal charter 1756 The beginning of the Seven Years' War 1757 The Battle of Plassey 1759 Britain wins the Battle of Quebec 1763 End of the Seven Years' War 1765 Treaty of Allahabad 1770 Captain Cook claims Australia for Britain 1788 The first fleet of 11 convict ships reaches Australia	Missionary Someone who wishes to convert others to their religion Imperial An adjective for anything to do with an Empire Legacy What you leave behind for future generations Multi-Cultural A society made up of different peoples Atrocity A terrible crime



Wellington History Year 8 HT 3 Knowledge Organiser What was the impact of the slave trade? How significant was the Haitian Revolution?

Ocean



Key Questions What and why? You will learn how the transatlantic slave Keywords What was Africa like before the slave trade? trade began, how Britain came to dominate it, what it was like Captive What was Europe like before the slave trade? to be enslaved and resistance to enslavement • A person who has been taken prisoner How & why did the slave trade begin? Stop, think and link: Why were the British so keen to build an 0 ٠ Sub-Saharan Africa empire? How did the British Empire change the world? How How did people in Britain benefit from slavery? • significant was Mansa Musa How were slaves caught and transported? African countries south of the Saharan desert ٠ Consequence Assessment: What was the impact of the slave * What were conditions for slaves like? . **Merchant** trade? Should the slave trade be called the triangular slave Person/company who trades with foreign trade? Want to explore further? Should we use the term 'The Middle Passage'? countries • Book: Black and British: A short, essential history by David Olusoga How did the captured resist slavery? Book: A Short History of Slavery by James Walvin Commodity Where were slaves taken? ٠ Book: David Richardson, 'The British Empire and the Atlantic Slave Trade, A raw material or product than can be bought What was an auction like? 1660-1807' in The Oxford History of the British Empire, Volume II - The ٠ or sold What was work on a plantation like? Eighteenth Century, edited by P.J.Marshall . Websites: http://www.understandingslavery.com/ What was the legacy of slavery? Triangular • https://www.liverpoolmuseums.org.uk/history-of-slavery/europe Eurocentric view of the slave trade https://www.liverpoolmuseums.org.uk/history-of-slavery/west-Enslaved africa The action of taking someone prisoner **Key events and Key People** Atlantic EUROPE NORTH **1555:** A group of Africans help the English break the monopoly Ocean Colonists AMERICA Northern US All Europe that the Portuguese have over the African trade Gulf Coast Foreign inhabitant of a country 500 km 1562-9: John Hawkins becomes the first Englishman definitely Georgia 250 mi Plantation Senegambia known to have traded in Africans 756.000 AFRICA Cuba Freetown 1672: The Royal African Company is formed in order to regulate 104,000 Estate where crops are grown e.g. sugar Sierra Leone Jamaica the English slave trade 389.000 **Bight of Benin Auction 1698:** The trade is opened to private traders Spanish British Caribbean Bight of Bonny **1760:** Slave revolts in Jamaica last for several months Mainla Public sale of goods/property Amazonia • **1783:** 133 Africans are thrown overboard alive from the slave ship Pernambuco •West Central Africa **Transatlantic** Zong so that the owners can claim compensation SOUTH St. Helena Bahia South-east AMERICA Crossing the Atlantic Ocean 1784: Cotton from America was first imported into Britain Madagascar 1791: A slave uprising triggers the Haitian Revolution South-east Brazil Windward Yoke Pacific Coast 337.000 1804: St Domingue declared the Republic of Haiti, the first Ocean Wooden stick to tie captives together Gold Coast independent black state outside of Africa. 543.000 Río de la Plata 1.2m Atlantic

Wellington School



Mathematics

Stage 8: Proportional Reasoning

Topic/Skill	Definition/Tips	Example
1. Ratio	Ratio compares the size of one part to	3:1
	another part.	
2 Dronaution	Written using the ':' symbol.	In a class with 12 hours and 0 sinks the
2. Proportion	the size of the whole	In a class with 15 boys and 9 girls, the $\frac{13}{13}$
	the size of the whole.	proportion of boys is $\frac{1}{22}$ and the
	Usually written as a fraction.	proportion of girls is $\frac{9}{22}$
3. Simplifying	Divide all parts of the ratio by a common	5: 10 = 1: 2 (divide both by 5)
Ratios	factor.	14:21 = 2:3 (divide both by 7)
4 Detion in the	Divide both ports of the ratio by one of the	
4. Katios in the	numbers to make one part equal 1	$5:7 = 1:\frac{1}{5}$ in the form 1: n
n: 1	numbers to make one part equal 1.	$5:7 = \frac{5}{5}:1$ in the form n : 1
5. Sharing in a	1. Add the total parts of the ratio.	Share $\pounds 60$ in the ratio $3:2:1$.
Ratio	2. Divide the amount to be shared by this	
	value to find the value of one part.	3 + 2 + 1 = 6
	3. Multiply this value by each part of the	$60 \div 6 = 10$ 2 x 10 20 2 x 10 20 1 x 10 10
	rauo.	$5 \times 10 = 50, 2 \times 10 = 20, 1 \times 10 = 10$ f = 10
	Use only if you know the total	250.220.210
6. Proportional	Comparing two things using multiplicative	X 2
Reasoning	reasoning and applying this to a new	
	situation.	30 minutes 60 pages
		? minutes 150 pages
	Identify one multiplicative link and use this	
7. 11. : 4	to find missing quantities.	
7. Unitary	Finding the pagessory value by multiplying	5 cakes require 450g of sugar to make.
Method	the single unit value	make 5 cakes
	the single unit value.	make 5 cakes.
		3 cakes = 450 g
		So 1 cake = $150g (\div by 3)$
		So 5 cakes = 750 g (x by 5)
8. Ratio	Find what one part of the ratio is worth	Money was shared in the ratio 3:2:5
already shared	using the unitary method .	between Ann, Bob and Cat. Given that
		Bob had £16, found out the total
		amount of money shared.
		$\pm 16 = 2$ parts
		So $\pounds 8 = 1$ part
		$3 + 2 + 5 = 10$ parts, so $8 \ge 10 = \text{\pounds}80$
9. Best Buys	Find the unit cost by dividing the price by	8 cakes for £1.28 \rightarrow 16p each (÷by 8)
	the quantity.	13 cakes for £2.05 \rightarrow 15.8p each (÷by
	The lowest number is the best value.	
		Pack of 13 cakes is best value.

10. Speed,	Speed = Distance ÷ Time	Speed = 4mph
Distance, Time	Distance = Speed x Time	Time = 2 hours
,	Time = Distance ÷ Speed	
		Find the Distance.
	^	
		$D = S \times T = 4 \times 2 = 8$ miles
		$D = 5 \times 1 = 4 \times 2 = 0$ milles
	Remember the correct units.	
11. Density,	Density = Mass ÷ Volume	Density = 8kg/m^3
Mass, Volume	Mass = Density x Volume	Mass = 2000g
,	Volume = Mass ÷ Density	
		Find the Volume.
	\land	$V = M \div D = 2 \div 8 = 0.25m^3$
	/ M \	V = 11 : D = 2 : 0 = 0.25 m
	Remember the correct units.	
12. Pressure,	Pressure = Force ÷ Area	Pressure = 10 Pascals
Force, Area	Force = Pressure x Area	$Area = 6cm^2$
	Area = Force ÷ Pressure	
		Find the Force
	^	
		$F = P \times A = 10 \times 6 = 60 N$
	Remember the correct units.	
13. Distance-	You can find the speed from the gradient	
Time Graphs	of the line (Distance ÷ Time)	(Km) 3
_	The steeper the line, the quicker the speed.	
	A horizontal line means the object is not	, , , , , , , , , , , , , , , , , , , ,
	moving (stationary).	
	, , , , , , , , , , , , , , , , , , ,	Time (Hours)

Stage 8: Angles

Topic/Skill	Definition/Tips	Example
1. Types of	Acute angles are less than 90°.	
Angles	Right angles are exactly 90°.	
	Obtuse angles are greater than 90° but less	Acute Right Obtuse Reflex
	than 180°.	noute reput course rener
	Reflex angles are greater than 180° but less	
	than 360°.	- B
2. Angle	Can use one lower-case letters, eg. θ or x	
Notation	Can use three upper case letters as BAC	
	Can use unter upper-case letters, eg. DAC	A D
3. Angles at a	Angles around a point add up to 360°.	
Point		u a
		b
		$a+b+c+d=360^{\circ}$
4. Angles on a	Angles around a point on a straight line	/
Straight Line	add up to 180° .	
		x / y
		1906
		$x + y = 180^{\circ}$
5. Vertically	Vertically opposite angles are equal.	x v
Opposite		$\frac{x}{v/x}$
Angles		5/1
6. Alternate	Alternate angles are equal.	v x
Angles	They look like Z angles, but never say this	
	in the exam.	
7.	Corresponding angles are equal.	$\frac{y}{x}$
Corresponding	They look like F angles, but never say this	
Angles	in the exam.	
Q. C. Interior		
8. Co-Interior	They look like C angles, but never say this	$\frac{y}{x}$
Aligies	in the exam	
		x y
0.41		Δ
9. Angles in a	Angles in a triangle add up to 180°.	~
Thangle		80°
		B 45°
		C

10. Types of Triangles	Right Angle Triangles have a 90° angle in. Isosceles Triangles have 2 equal sides and 2 equal base angles. Equilateral Triangles have 3 equal sides	
	Scalene Triangles have different sides and different angles	Right Angled Isosceles
	different angles.	60"
	Base angles in an isosceles triangle are equal.	60° 60° Equilateral Scalene
11. Angles in a Quadrilateral	Angles in a quadrilateral add up to 360°.	65° 93°
12. Polygon	A 2D shape with only straight edges .	Rectangle, Hexagon, Decagon, Kite etc.
13. Regular	A shape is regular if all the sides and all the angles are equal .	
14. Names of Polygons	3-sided = Triangle 4-sided = Quadrilateral 5-sided = Pentagon 6-sided = Hexagon	Triangle Quadrilateral Pentagon Hexagon
	 7-sided = Heptagon/Septagon 8-sided = Octagon 9-sided = Nonagon 10-sided = Decagon 	Heptagon Octagon Nonagon Decagon
15. Sum of	$(n-2) \times 180$	Sum of Interior Angles in a Decagon =
Interior Angles	where n is the number of sides.	$(10-2) \times 180 = 1440^{\circ}$
16. Size of	$(n-2) \times 180$	Size of Interior Angle in a Regular
Interior Angle	n	Pentagon = $(5 - 2) \times 100$
in a Regular	Vou can also use the formula:	$\frac{(5-2) \times 180}{-} = 108^{\circ}$
Polygon	180 – Size of Exterior Anale	5
17. Size of	360	Size of Exterior Angle in a Regular
Exterior Angle	\overline{n}	Octagon =
in a Regular		360
Polygon	You can also use the formula:	$\frac{1}{8} = 45^{\circ}$
	180 – Size of Interior Angle	



Stage 8: Calculating with Percentages, Decimals, Fractions

Topic/Skill	Definition/Tips	Example
1. Increase or	Non-calculator: Find the percentage and	Increase 500 by 20% (Non Calc):
Decrease by a	add or subtract it from the original	$\frac{10\% \text{ of } 500 = 50}{10\% \text{ of } 500 = 50}$
Percentage	amount.	so 20% of 500 = 100
		500 + 100 = 600
	Calculator: Find the percentage multiplier	
	and multiply.	Decrease 800 by 17% (Calc):
		100%-17%=83%
		$83\% \div 100 = 0.83$
		$0.83 \ge 800 = 664$
2. Percentage	The number you multiply a quantity by to	The multiplier for increasing by 12% is
Multiplier	increase or decrease it by a percentage.	1.12
-		
		The multiplier for decreasing by 12% is
		0.88
		The multiplier for increasing by 100%
		is 2.
3. Percentage	Difference $\sim 100\%$	A games console is bought for £200
Change	Original ~ 100 %	and sold for £250.
		% change = $\frac{50}{200} \times 100 = 25\%$
		200
4. Reverse	Find the correct percentage given in the	A jumper was priced at £48.60 after a
Percentage	question, then work backwards to find	10% reduction. Find its original price.
	100%	
		100% - 10% = 90%
	Look out for words like 'before' or	
	'original'	$90\% = \pounds 48.60$
		$1\% = \pounds 0.54$
		$100\% = \pounds 54$
5. Simple	Interest calculated as a percentage of the	£1000 invested for 3 years at 10%
Interest	original amount.	simple interest.
		10% of $\pounds 1000 = \pounds 100$
		Interest = $3 \times \pm 100 = \pm 300$
6. Compound	Interest paid on the original amount and	A bank pays 5% compound interest a
Interest	the accumulated interest.	year. Bob invests ±3000. How much
		will he have after / years.
		$2000 \times 1.057 - 64221.20$
7 Adding or	Find the ICM of the denominators to find	$\frac{3000 \times 1.05^{\circ} = \pm 4221.30}{2 4}$
7. Adding or	rind the LCIVI of the denominators to find	$\frac{2}{2} + \frac{4}{2}$
Fractions	a common denominator.	$\begin{array}{c} 3 & 5 \\ \text{Multiples of 3: 3 } 6 & 9 & 12 \\ \end{array}$
Fractions	fraction to the common denominator	Multiples of 5: 5, 10, 15
	Then just add or subtract the numerators	I CM of 3 and 5 - 15
	and keep the denominator the same	2 10
	and keep the denominator the same .	$\frac{2}{2} = \frac{10}{15}$
		3 15

		4 12
		$\overline{5} = \overline{15}$
		$\frac{10}{15} + \frac{12}{15} = \frac{22}{15} = 1\frac{7}{15}$
8. Multiplying	Multiply the numerators together and	3 2 6 1
Fractions	multiply the denominators together.	$\frac{1}{8} \times \frac{1}{9} = \frac{1}{72} = \frac{1}{12}$
9. Dividing	'Keep it, Flip it, Change it – KFC'	3 5 3 6 18 9
Fractions	Keep the first fraction the same	$\frac{1}{4} \div \frac{1}{6} = \frac{1}{4} \times \frac{1}{5} = \frac{1}{20} = \frac{1}{10}$
	Flip the second fraction upside down	
	Change the divide to a multiply	
	Multiply by the reciprocal of the second fraction.	

Stage 8: Equations

Topic/Skill	Definition/Tips	Example
1. Solve	To find the answer /value of something	Solve $2x - 3 = 7$
	Use inverse operations on both sides of the equation (balancing method) until you find the value for the letter.	Add 3 on both sides 2x = 10 Divide by 2 on both sides x = 5
		Solve $3x + 1 = 5x - 3$
		Subtract 3x (the smallest amount of x) from both sides
		1 = 2x - 3 Add 3 on both sides 4 = 2x Divide by 2 on both sides 2 = x
2. Inverse	Opposite	The inverse of addition is subtraction. The inverse of multiplication is division.
3. Rearranging Formulae	Use inverse operations on both sides of the formula (balancing method) until you find the expression for the letter	Make x the subject of $y = \frac{2x-1}{z}$
		Multiply both sides by z yz = 2x - 1 Add 1 to both sides
		yz + 1 = 2x Divide by 2 on both sides
		$\frac{yz+1}{2} = x$ We now have x as the subject
4. Writing Formulae	Substitute letters for words in the question.	Bob charges £3 per window and a £5 call out charge.
		C=3N+5
		Where N=number of windows and C=cost
5. Substitution	Replace letters with numbers.	a = 3, b = 2 and $c = 5$. Find:
	Be careful of $5x^2$. You need to square first, then multiply by 5.	1. $2a = 2 \times 3 = 6$ 2. $3a - 2b = 3 \times 3 - 2 \times 2 = 5$ 3. $7b^2 - 5 = 7 \times 2^2 - 5 = 23$

Wellington School



Modern Foreign Languages

<u>Year 8 French</u>		
Knowledge Organiser HT3		
La technologie		
une maison	a house	
un appartement	a flat	
la rue	the street	
à la campagne	in the country	
dans un village	in a village	

in a town

dans une ville

<u>Rooms in a house</u>		
chez moi	in my	home
la chambre	the b	edroom
la cuisine	the k	ithcen
le jardin	the g	arden
la salle à man	iger	the dining
		room
la salle de ba	ins	the
		bathroom
le salon	the li	ving room

Prepositions	
devant	in front of
derrière	behind
en face de	opposite
sur	on
SOUS	under

Intensifiers	
vraiment	really
très	very
assez	quite
trop	too
un peu	a bit

<u>Giving an opinion</u>	
je pense que	I think that
à mon avis	in my
	opinion
je préfère	I prefer
je trouve ça	I find it
je sui s fan de	I am a fan of
j'ai horreur de	I hate
ça me fait rire	it makes me
	laugh
ça me fait pleurer	it makes me
	cry

Present tense key verbs I watch Je regarde Tu regardes you watch il/elle regarde he/she watches nous regardons we watch vous regardez you (formal) watch ils/elles regardent they watch

Ιqo you qo il/elle va he /she goes nous allons we go vous allez you qo ils /elles vont they go I do you do il/elle fait he/she does

we do

you do

they do

je vais

tu vas

je fais

tu fais

nous faisons

vous faites

ils/elles font

Weather Il fait beau it is nice Il pleut it is raining Il fait chaud it is hot Il fait froid it is cold On TV les dessins animés cartoons les infos the news les jeux télévisés game shows the weather la météo les séries series les documentaires les émissions de sport les émissions de télé-réalité Internet Je fais des achats en ligne I do online shopping Je fais des recherches I do searches J'envoie I send Je mets à jour I update Je joue à des jeux en ligne I play games on line Time phrases: When? le weekend at the weekend le matin in the morning l'après midi in the afternoon

le soir

in the evening/at

on Sunday afternoon

night

morning

<u>samedi</u> matin on Saturday

dimanche après-midi

<u>Past tense</u>	
J'ai discuté	I discussed
J'ai écouté	I listened
J'ai envoyé	I sent
J'ai joué	I played
J'ai posté	I posted
J'ai regardé	I watched
J'ai surfé	I surfed
J'ai tchatté	I chatted
J'ai téléchargé	I
_	downloaded

<u>Connectives and sequencers</u>	
cependant	however
aussi	also
puis	then
d'abord	firstly
ensuite	next
après	after
avant	before

Adjectives	
ennuyeux	boring
rasant	boring
barbant	boring
passionnant	exciting
amusant	fun/funny
confortable	comfortable
douillet	cosy
assez bien	quite good
chouette	excellent
effrayant	frightening
émouvant	moving
passionnant	exciting
pratique	practical

<u>Year 8 French Knowledge</u> <u>Organiser HT4</u>

<u>Intensifiers</u>	
vraiment	really
très	very
assez	quite
trop	too
un peu	a bit
<u>Giving an opinion</u>	
je pense que	I think that
à mon avis	in my
	opinion
je préfère	I prefer
je trouve ça	I find it
je suis d'accord	I agree
je ne suis pas d'accord	I don't
agree	

<u>Relationships</u>

On s'amuse	We have fun
On se chamaille	We squabble
On se confie des se	ecrets
We tell e	each other
secrets	
On se dit	We tell each
	other
On se dispute	We argue
On s'entend	We get on
On se fâche	We get angry

<u>Mon caractère</u>	
Je suis	I am
Je pense que je suis	I think that
	I am
Je ne suis pas	I am not

Je ne suis pas du tout I am not at all Mon meilleur ami/Ma meilleure amie est... My best friend is Adorable adorable Arrogant(e) arrogant Amusant(e) funny Casse-pieds annoying Curieux/se curious Débrouillard(e) resourceful Drôle funny égoïste selfish gentil(le) nice intelligent(e) intelligent optimiste optimistic paresseux/se lazy patient(e) patient pessimiste pessimistic rigolo(te) funny sociable sociable nice sympa

les vêtements	Clothes
Normalement, je porte	
Normally, I wear	
Des baskets	traiers
Des bottes	boots
Des chaussures	shoes
Une chemise	a shirt
Un chapeau	a hat
Un jean	jeans
Une jupe	a skirt
Un pantalon	trousers
Un pull	a jumper

un sweat à capuche	a hoodie
un tee-shirt	a T-shirt
une veste	a jacket
Verbes essentiels	Key verbs
Je vais	I am
	going/I go
Tu vas	You go/You
	are going
Il/elle va	He/She is
	going/He/S
	he goes
On va	We are
	going/we go

Using the past tense

Hier	Yesterday
La semaine dernière	Last week
Je suis allé(e)	I went
J'ai regardé	I watched
J'ai dansé	I danced
C'était	It was

Using the present tense

Normalement	Normally
)'habitude	Usually
Je vais	I go
Je regarde	I watch
Je danse	I dance
C'est	It is

Using the future tense

Ce weekend	This weekend
Cet été	This summer
Je vais aller	I'm going to go
Je vais regarder	I'm going to
watch	

Je vais danser	I'm going to
danse Ça va être	It's going to
be	5 5

Les couleurs	
Beige	beige
Blanc(he)	white
Bleu turquoise	turquoise
Gris(e)	grey
Marron chocolat	chocolate
	brown
Noir(e)	black
Orange	orange
Vert kaki	khaki

Les mots essentiels	High
frequency words	g. i
Thequency worlds	
A	
Avec	with
Bien	well
Comme d'hab	as usual
En général	in general
En plus	in addition
Ensemble	together
Même	same
Ou	or
Partout	everywhere
Plutôt	rather
Quand	when
Sinon	otherwise
Surtout	especially
Souvent	often
Tout(e)	all,every
Tout le temps	all the time
Vraiment	really

Was isst du gern? Ich esse gern Ich esse nicht gern Was trinkst du gern? Ich trinke gern Ich trinke nicht gern Brot. Joghurt. Käse. Kuchen. Marmelade. Schinken. ,denn es ist süß. ,weil es schmackhaft ist. Was hast du gegessen? Ich habegegessen Was hast du getrunken? Ich habegetrunken Ich fand es lecker Es war eklig	What do you like to eat? I like eating I don't like eating What do you like to drink? I like drinking I don't like drinking bread. yoghurt. cheese. cake. jam. ham. because it is sweet. because it is tasty. What did you eat? I ate What did you drink? I drank I found it delicious It was disgusting	Im CaféWas möchtest duals Vorspeiseals Hauptgerichtals NachtischWas möchtest duSonst noch etwasHaben Sie?Die Speisekarte, bitteDie Rechnung, bitte?Wo sind die ToiletterIch möchteden Fischden Salatdie Pizzadie Tortedas Eisdas Hähnchendas Steak	? trinken? ? e? 1?	In the café What would you like ? as a starter as a main course as dessert What would you like to drink Anything else? Do you have? The menu, please? The bill, please? Where are the toilets? I would like the fish the salad the pizza the tomato soup the cake the ice-cream the chicken the steak	Year 8 German Knowledge Organiser Half Term 3
Wo gehst du einkaufen? Ich gehe gern einkaufen Normalerweise gehe ich zum Modegeschäft	Where do you go shopping? I like going shopping Normally I go to the clothes shop	einen Milchshake eine Limo ein Mineralwasser Nichts, danke Wir haben kein en / k	ein e / kein	a milkshake a lemonade a mineral water Nothing, thanks We have no	
zum Sportgeschäft zum Kaufhaus zum Musikladen zur Buchhandlung zur Konditorei zur Drogerie zur Metzgerei zur Metzgerei zur Bäckerei Was hast du letzte Woche gemacht? Letzte Woche habe ich Taschengeld bekommen Ich bin ich in die Stadt	to the sports shop to the department store to the music shop to the book shop to the cake shop to the chemist to the butcher's to the bakery What did you do last week? Last week I got pocket money I went to town	Was kostet das? zehn Euros zwanzig Euros dreißig Euros vierzig Euros fünfzig Euros sechzig Euros siebzig Euros achtzig Euros neunzig Euros	<i>How much is</i> <i>that?</i> <i>€10</i> <i>€20</i> <i>€30</i> <i>€40</i> <i>€50</i> <i>€60</i> <i>€70</i> <i>€80</i> <i>€90</i>	 Das kostet einundzwanzig Euros zweiunddreißig Euros dreiundvierzig Euros vierundfünfzig Euros fünfundsechzig Euros sechsundsiebzig Euros einhundertachtzig Euros zweihundertneunzig Euros dreihundertfünfzig Euros 	<i>€21 €32 €43 €54 €65 €76 €180 €350</i>
gegangen. Was hast du gekauft? Ich habe gekauft	What did you buy? I bought	Was kaufst du näc Nächstes Wochene Bücher.	hstes Wochene ende kaufe ich	ende? What areyou going to weekend? Next weekend I'm go books.	o buy next oing to buy

Year 8 German Knowledge Organisers

						Was machst du	What do you
Fernsehsendungen der Film(-e) der Dokumentarfilm(-e) der Zeichentrickfilm(-e) der Krimi(-s) die Kindersendung(-en) die Quizsendung(-en) die Sportsendung(-en) die Tiersendung(-en) die Komödie(-n)	TV programmes film documentary cartoon detective story children's programme music programme quiz sports programme animal programme comedy	Siehst du gern (Filme)? Ja, ich sehe gern (Filme)? Nein, ich sehe nicht so gern (Filme). Ich sehe lieber (Seifenopern). Was ist deine Lieblingssendung? Was kommt um zehn Uhr? Wann beginnt / endet	 Do you like watching (films)? Yes, I like watching films. No, I don't really like watching (films). I prefer watching (soaps). What is your favourite programme? What's on at ten o'clock? When does the film 	Das war lustig. spannend. doof. zu lang. toll. interessant. langweilig.	It was funny. exciting. stupid. too long. great. interesting. boring.	nach der Schule? Ich besuche meine Freunde. Ich gehe einkaufen. Ich gehe ins Sportzentrum. Ich helfe zu Hause. Ich mache	do after school? I visit my friends. I go shopping. I go to the sports centre. I help at home. I do my
die Seifenoper(-n) die Nachrichten	soap opera the news	der Film? Was für eine Sendung is das? Das ist eine Komödie. Was hast du gestern	start / finish? t What kind of programme is that? That's a comedy. What did you watch on	Ein Ausflug Wir haben im Bus	A trip On the bus we	meine Hausaufgaben. Ich surfe im Internet.	homework. I surf the Internet.
Skater Wo wohnt er? Er wohnt in Wie alt ist er? Er ist (siebzehn) Jahre alt. müssen Wie oft muss er trainieren? Er muss jeden Tag trainieren. Was macht er am Wochenende? Am Wochenende muss er zu Skateshows fahren. Was braucht er zum Skaten?	Skateboarders Where does he live? He lives in How old is he? He is (17). must How often does he have to train? He has to train every day. What does he do at the weekend? At the weekend he has to go to skateboarding shows. What does he need for skateboarding?	Abend gesehen?Ich habe gesehen.Ich habe nichts gesehen.Ich habe nichts gesehen.Ich habe nichts gesehen.Ich habe nichts gesehen.Grinden.Was sind seineWhite ist er?Wie ist er?Wie ist er?Wie ist er?WinEr ist impulsiv undHer ist impulsiv und <td< td=""><td>TV last night? I watched I didn't watch anuthing needs a good kateboard. at are his avourite ricks? favourite ricks are liding and rinding. at is he like? s impulsive and ambitious. He must rain. ear a helmet. to skating shows. e very fit.</td><td>Bücher gelesen. SMS geschickt. geschlafen. Schwarzwälder Kirschtorte gegessen. Chips gegessen. Limo getrunken. Wir sind mit dem Zug gefahren. mit dem Bus gefahren. schwimmen gegangen. wandern gegangen. nach Hause gefahren.</td><td>music. read books. sent text messages. slept. ate Black Forest gateau. ate crisps. drank lemonade. We travelled by train. travelled by bus. went swimming. went hiking.</td><td>Ich schicke SMS. Ich übe Klavier. Sie sehen fern. Sie spielen Fußball. Sie gehen angeln. Sie kaufen Make-up. Sie fahren Skateboard. Sie helfen zu Hause. immer oft manchmal ab und zu nie</td><td>I send text messages. I practise the piano. They watch TV. They play football. They go fishing. They buy make- up. They buy make- up. They go skateboarding. They help at home. always often sometimes now and then never</td></td<>	TV last night? I watched I didn't watch anuthing needs a good kateboard. at are his avourite ricks? favourite ricks are liding and rinding. at is he like? s impulsive and ambitious. He must rain. ear a helmet. to skating shows. e very fit.	Bücher gelesen. SMS geschickt. geschlafen. Schwarzwälder Kirschtorte gegessen. Chips gegessen. Limo getrunken. Wir sind mit dem Zug gefahren. mit dem Bus gefahren. schwimmen gegangen. wandern gegangen. nach Hause gefahren.	music. read books. sent text messages. slept. ate Black Forest gateau. ate crisps. drank lemonade. We travelled by train. travelled by bus. went swimming. went hiking.	Ich schicke SMS. Ich übe Klavier. Sie sehen fern. Sie spielen Fußball. Sie gehen angeln. Sie kaufen Make-up. Sie fahren Skateboard. Sie helfen zu Hause. immer oft manchmal ab und zu nie	I send text messages. I practise the piano. They watch TV. They play football. They go fishing. They buy make- up. They buy make- up. They go skateboarding. They help at home. always often sometimes now and then never

Year 8 Music - Composer's Logbook (melody)

KEYWORDS

1- Time Signature: to specify how many beats are to be contained in each bar and which note value is equivalent to one beat.

2- Bar: Each bar usually has the same number of beats in it. Music that feels like 1-2-3-4 will be divided into bars with four beats worth of music in each bar.

3- Barline: The bar line is a vertical line written in the music which separates the **bars**.

4- Rest: an interval of silence in a piece of music, marked by a symbol that corresponds to a particular note value.

5- Melody: the main tune of a song.

6- Phrase: a short musical passage; a musical sentence.

7- Pentatonic: 5-notes. A pentatonic scale is a series of 5-notes used to create a piece.

8- Call and Response: 2 phrases that occur in <u>different parts</u> one after another. Often a solo part then repeated by a chorus (African music).

9- Question and Answer: 2 phrases that occur one after another, the second in direct response, and complimentary to the first.

10- Ostinato: a persistent phrase or motif repeated over several bars or more.

11- Dorian mode: a medieval **mode** whose scale pattern is that of playing d to d on the white keys of a piano (T-s-T-T-s-T).

12- Drone: an accompaniment where a note is continuously heard/played throughout a piece

13- Harmony: parts that play together simultaneously create harmony. Often accompanying or secondary parts to a melody.

14- Dictation: the ability to hear a piece of music and quickly write it down.





Note	Name	Beats	Rest	Note	Name	Beats	Rest
0	Semibreve, Whole Note	4 beats		0.	Dotted Semibreve, Dotted Whole Note	6 beats	
9	Minim, Half Note	2 beats		d.	Dotted Minim, Dotted Half Note	3 beats	
	Crotchet, Quarter Note	1 beat	ર્ક	.	Dotted Crotchet, Dotted Quarter Note	1% beats	ξ.
ſ	Quaver, Eighth Note	1/2 beat	7	J.	Dotted Quaver, Dotted Eighth Note	3/4 beat	7.
ſ	Semiquaver, Sixteenth Note	1/4 beat	7	5.	Dotted Semiquaver, Dotted Sixteenth Note	3/8 beat	7.

5 characteristics of a good melody

A Good Melody...

- 1. Starts and ends on the same note (C)
- 2. Moves mainly by step
- 3. Has a smooth contour/shape
- 4. Has 2 or 4 bar phrases
- 5. Uses similar short motifs to give it a clear character

Annotate the melody above to identify its use of the '5 characteristics of a good melody'.

Grand Staff

Unit 2: Animal Rights Year 8

Skills

- Engage with and reflect on different ideas, opinions and beliefs to help develop personal opinion.
- Express and explain opinions through discussion and written assessments.
- Reflect on the knowledge and skills needed for setting realistic targets and personal goals.
- Work individually and with others to negotiate, plan and take action.
- Analyse and reflect upon action taken and progress made.

Knowledge

Learn and understand about Animal Rights & the law related to animals

Understand what is Battery farming & the law on battery farming

Appreciate why animals are used in research





Unit 3: Sex Education Year 8

Skills

- Engage with and reflect on different ideas, opinions and beliefs to help develop personal opinion.
- Can express and explain opinions through discussion and written assessments.
- Develop empathy with the situations others may find themselves in

Knowledge

Be aware of Current teenage pregnancy statistics

Develop awareness of the different methods of contraceptives

Gain knowledge and understanding about STIs and the dangers of them

Eliminate myths about STIs

Gain knowledge and understanding about HIV ♦ AIDS







<u>Y8: Unit 1 Judaism</u>

Judaism is one of the oldest religious traditions with Abraham as the 'founding father'. It is a monotheistic religion (i.e. they believe in one God only). Judaism shares a lot of similarities with the religions of Christianity and Islam as will be explored. In this unit of work you will be examining various parts of Jewish history and how these events effect both Jewish traditions, lifestyle and practices today.

Religions

Lesson 1

What are the key features of Judaism?

What does "a monotheistic religion" mean? Can you name 5 key features of Judaism? Find out about 3 new facts not covered in this lesson.

Lesson 4

Judaism and slavery - what is Passover?

What was the Passover story? Can you give three reasons why the Passover story would make Jewish people think Moses is important? What are the 10 plagues and what order did they come?

Lesson 7

Bar/Bat Mitzvah- what happens at a comingof age ceremony?

Why do Jewish children go through a bar/bat mitzvah? What are key features of a bar mitzvah? What is done/worn? List at least 5 Do you think everyone should have an event where they take on more responsibility? One reason for and one against.

Ethics

Lesson 2

Kosher food laws – why bother?

Can you name two foods that aren't Kosher and why they aren't? Create a flowchart that shows the process that meat goes through to become kosher. Give two reasons why Jewish people follow Kosher laws.

Lesson 5

Modern day slavery – does it still happen?

What are three facts about modern slavery? Explain the link between modern slavery and the history of the Jewish people Modern slavery provides a better life for some. Give 2 reasons why it is and 2 reasons why it is not.

Lesson 8

What age are we responsible for our behaviour?

Jews follow the 10 commandments, which do you think are the three most important and why?

What new rule would you make that everyone should follow? "Following the 10 commandments make you a better person" Give 2 reasons why it might and 2 reasons why it might not.

Knowledge Organiser

Philosophy

Lesson 3

Is it worth being religious?

Jews follow 613 rules but does this make them a better person?

Give 3 ideas What do people gain from having a faith? Is religion a force for good. Give 2 reasons why it is and 2 reasons why it is not.

Lesson 6

The Holocaust: How has Jewish persecution challenged faith in God?

Why were the Jewish people persecuted in the Holocaust? Can you list at least 3 reasons? What effect might the Holocaust have on Jewish people today? How do Jewish people justify their belief in God after the holocaust?

Lesson 9

Are our actions ever truly free?

Can you give two examples of actions out of our control? Can you give two examples of actions that we DO control? Create a list of 5 things that you can do to make the lives of those around you better.

*Following these 9 lessons pupils will be assessed and feedback will be given in exercise books.



<u>Y8: Unit 2 Hinduism</u>

Hinduism is the third biggest religion in the world, existing for around 4000 years. Hinduism is made up of a variety of different religious beliefs and practices which originated near the river Indus in India. In this unit of work, you will learn about the Hindu religion, analyse and understand ethical ideas such as potential

consequences of actions and equality among all and philosophical questions surrounding human existence.

Religions

Lesson 1

Hinduism: What is it all about?

How and where did Hinduism originate? Describe a day in a life of a typical Hindu teenager. Give 3 ways that Hinduism is different to Judaism (Unit 1).

Lesson 4

Hindu festivals – what is celebrated?

What is the story behind Diwali? Name and explain the traditions behind one other Hindu festival. "Religious festivals are just an excuse for a party". Give 3 reasons to agree and disagree.

Lesson 7

Samskaras – what are significant events in the life of a Hindu?

What does the term samskara mean?

Explain 5 different samskaras.

Compare 3 samskaras with 3 Jewish life events. What are the similarities and differences?

Ethics

Lesson 2

Karma, samsara and rebirth – how does it work?

How do Hindus reach moksha? Explain the concept of karma and how it relates to the samsara cycle. Is there any evidence for rebirth? Give 2 reasons for and against.

Lesson 5

Equality P4C - Are some people more important than others?

What is the difference between equality and fairness? What are the 9 protected characteristics of the Equality Act 2010?

Some people say that we don't need a law to tell us that we're all equal – do you agree or disagree? Explain your view.

Lesson 8

Should we all have goals that benefit others? Or just ourselves?

What are the 4 key goals in a Hindu's life? Do you think that you are achieving your dharma in life? "Money doesn't bring happiness" – what would a Hindu say to this?

Curriculum

Organiser

Philosophy

<u>Lesson 3</u>

How do Hindus understand God?

Explain the difference between monotheism and polytheism. Which is Hinduism?

Explain how the Trimurti represents Brahman.

How might a Hindu's belief in God influence their daily lives?

Lesson 6

The Caste system - What is the perfect way to organise society?

Describe the different levels of the caste system.

What decides the caste that someone is in?

"Life is easier if everyone knows their place." Give 2 reasons to agree and disagree.

<u>Lesson 9</u>

Is this whole world an illusion? What is real?

Explain the terms maya and moksha.

Could a Hindu still be a scientist?

How could the belief in maya influence a Hindu's daily life?

*Following these 9 lessons pupils will be assessed and feedback will be given in exercise books.



Science

8C2 Metals

Properties of metals and non-metals

-							
Propert	ty	Metal	s		Non-metals		
Appeara	nce	Shiny			Dull		
State at ro temp	oom	Solid (except r	mercury)	Ha	If are solids, half are gases, is liquid (bromine)	one	
Densit	y	High			Low		
Strengt	h	Strong	g		Weak		
Malleable brittle	e or	Malleable (can be breakin	end without g)		Brittle (will shatter when hammered)		
Conducti (heat/elect	ion ricity)	Conduct bo	th well	II Poor (graphite only no conductor)		tal	
Magnet	ic	Only iron, cobalt	t and nickel		None		
Metal		Reaction with AIR	Reaction w WATER	ith	Reaction with ACIDS		
Potassium Sodium	K Na	Burn vigorously to form metal oxides	React with c water H ₂ O (I form H _{2 (g)} a	old) to and	Strong reaction with diluted acid (aq) to		
Calcium	Ca	Burn with	(metal)OH	aq)	form H _{2 (e)} . Metal		
Magnesium	Mg	decreasing vigour	Only reacts v	vith	replaces H in		
Aluminium	Al	down the series	steam H ₂ O(g) to	compound to form a		
Zinc	Zn	to form metal	form H _{2 (g)} a	nd	salt.		
Iron	Fe	oxides	metaroxic	le			
Lead	Pb				React with		
Copper	Cu	React slowly			concentrated		
Mercury	Hg	(when heated) to form an oxide layer	No reactio	'n	replaces H to make a salt. Some of the acid decomposes into $NO_{2(g)}$ and $H_2O_{(I)}$.		
Silver	Ag	No reaction			No reaction		
Gold	Au	noreaction			ino reaction		



General Equations for metal reactions

Metal	+	Oxygen	\rightarrow	Metal Oxide	
Metal	+	Water	\rightarrow	Metal Hydroxide	+Hydrogen
Metal	+	Acid	\rightarrow	Salt	+ Hydrogen

Displacement- When a more reactive metal will displace a less reactive metal from solutions of its compounds

. Sodium + Zinc Carbonate → Sodium Carbonate + Zinc

. Magnesium + Iron Oxide → Magnesium Oxide + Iron

Advantages of Recycling	Disadvantages of Recycling
Conserves raw materials. Less energy is used so less fossil fuels are used. Reduces waste in landfill. Avoids the use of mining for ores. Less damage to habitats. Less energy needed to melt and reform metals than to extract them. Produces less carbon dioxide	Carbon dioxide is a greenhouse gas. Greenhouse gases cause global warming. Electricity for electrolysis is expensive and usually comes from fossil fuels.

Force Diagrams

To show the forces acting on a body we use a free body force diagram. A free body force diagram shows all of the forces that are acting on the body. It has arrows that show the direction the force acts, the larger the arrow, the larger the force. A free body fore diagram should always have labelled arrows.



8P1 Knowledge organiser: Forces and Motion

Unbalanced Forces

If the forces are unbalanced on an object there are two things that could happen:

- 1. If the object is stationary then it will move in the direction of the resultant force
- If the object is moving, then the object will speed up or slow down in the direction of the resultant force.

For example, what is the resultant force on the lorry below?

100N-60N= 40N (to the right)

Remember the resultant force does not tell you what direction the lorry is moving in.

- If the resultant force is in the same direction as the movement of the lorry then the lorry will speed up
- · If it is in the opposite direction the lorry will slow down

The larger the resultant force the larger the change in movement.

Balanced Forces

When we talk about the total force acting on object we call this the resultant force. When the forces acting in opposite directions are the same size we say the forces are balanced. This means one of two things:

- 1. The object is stationary (not moving)
- 2. The object is moving at a constant speed This is known as Newton's first law.



For example, the resultant force acting on this object is 5N-5N=0N

When a force is applied to an object it can lead to a change in the objects

- Speed
- Direction of movement
- Shape (think about a rubber band)

Forces can also be divided into 2 types, contact forces and non contact forces.

- Contact forces for example friction, are caused when two objects are in contact.
- Other forces for example gravity, are non contact forces. The two objects do not need to be in contact for the force to occur.

Gravity	The force of attraction between two objects with mass
Electrostatic	The force between two charged objects
Magnetic	The force that enables a compass to work
Air resistance/ Drag	The force when a material travels through a fluid
Friction	The force when two materials rub together
Upthrust	The upwards force felt by an object in a fluid
Normal contact force	The force that acts at the point of contact between two objects
Tension	The force that is transmitted through a string, rope, cable or wire when it is pulled tight by forces acting from opposite ends.
Elastic	Force exerted by a compressed or stretched spring upon any object that is attached to it



Interpreting Distance-time graphs

- A straight diagonal line of a distance-time graph shows that the object is travelling at a steady/constant speed.
- A straight horizontal line on a distance-time graph shows that the object is not moving (stationary)
- If a curved line were to appear on a distance-time graph (orange line) this shows the object is accelerating.





<u>F=ma practical</u> Independent variable: Mass of trolley Dependant variable: Acceleration of trolley Control variable: Height of ramp, surface of ramp, force on pulley, trolley.

Results: As the mass of the car increases the acceleration of the trolley decreases.

			feet)	23 metres i six car leng		14 m	9 m 🔪	(48 km/h)
			6 metres (118 feet) nine car lengths		24 m	\rangle	12 m	40 mph 64 km/h)
	75 feet) angths	metres (175 fe	ar or	38 m		\rightarrow	15 m	50 mph 80 km/h)
a (240 feet) car lengths	= 73 metres () or eighteen car	= 73 or eig	55 m				18 m	60 mph 95 km/h)
			75		\rangle	n	21 r	12 km/h)
	= 96 metres	= 96 or tw	75			n	21 r	70 mph 112 km/h)

Thinking distance

Distance travelled from seeing the hazard to the moment you react to it

Braking distance

Distance travelled from when the brakes are applied to when the car comes to a stop.

Factors that increase stopping distance:

- Alcohol/Drugs
- Mobile phones
 - **Distractions**
- High mass car
- High starting speed
- Worn brakes and tyres
 - Icy/wet roads

 Mass

 The amount of matter in an object

 Never changes

 Measured in kg

Weight The **force** acting on an object, due to gravity

Changes depending on the strength of gravity

Measured in N

Newton's 1st Law: Motion will not change unless there is a balanced force acting on an object.

Newton's 2nd Law: The bigger the size of the <u>resultant</u> force on an object, the more the object will accelerate.

Newton's 3rd Law: If object A pushes on object B, then object B pushes on A with the same force but in the opposite direction.

Year 8 Knowledge Organiser : Health and Disease

Pathogens are microorganisms that cause infectious disease. Pathogens may be viruses, bacteria, protists or fungi. They can be spread by direct contact, by water or by air. Bacteria and viruses may reproduce rapidly inside the body.



Viruses need a host to survive. They cause disease symptoms by reproducing inside cells, and bursting the cell from the inside. This releases them, so they can be passed onto other host cells or other people (e.g. by coughing or sneezing out mucus that contains the viruses). DNA or RNA envelope nbrane from



The non-specific defence systems of the

First Lines of Defence



Health is the state of physical and mental well-being. Diseases, both communicable and non-communicable, are major causes of ill health. Other factors including diet, stress and life situations may have a profound effect on both physical and mental health.





Bacteria reproduce rapidly and can release poisonous chemicals, called toxins, that damage our cells. Examples of diseases caused by pathogenic bacteria include cholera, tuberculosis (TB) and food poisoning.



Cell membrar

human body against pathogens include the skin, nose, trachea and bronchi & stomach.





Weakened or hannless version of pathogen is introduced into your body



RABID ANIMAL

Fig. 8.4. Various modes of transmission of diseases

2 White cells respond to presence of

pathogens

white blood or and enguits the

Antibiotics, such as penicillin, are medicines that help to cure bacterial disease by killing infective bacteria inside the body. It is important that specific bacteria should be treated by specific antibiotics. The emergence of strains resistant to antibiotics is of great concern. Antibiotics cannot kill viral pathogens.

Painkillers and other medicines are used to treat the symptoms of disease but do not kill pathogens.

FFECTIVE PAIN RELI PARACETAMO ABLETS BP SORTING Highlar Pain Brind

IBUPROFEN

In coronary heart disease layers of fatty material build up inside the coronary arteries, narrowing them. This reduces the flow of blood through the coronary arteries, resulting in a lack of oxygen for the heart muscle.



Vaccination involves introducing small quantities of dead or inactive forms of a pathogen into the body to stimulate the white blood cells to produce antibodies. If the same pathogen re-enters the body the white blood cells respond quickly to produce the correct antibodies, preventing infection. The spread of pathogens can be reduced by immunising a large proportion of the population