Wellington School



Knowledge Organisers Year 8 Autumn 2020

Knowledge Organisers

Autumn Term Knowledge Organisers still need to be brought to school every day, alongside this one.

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

Contents

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

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 each term. However, it is import they keep the 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.

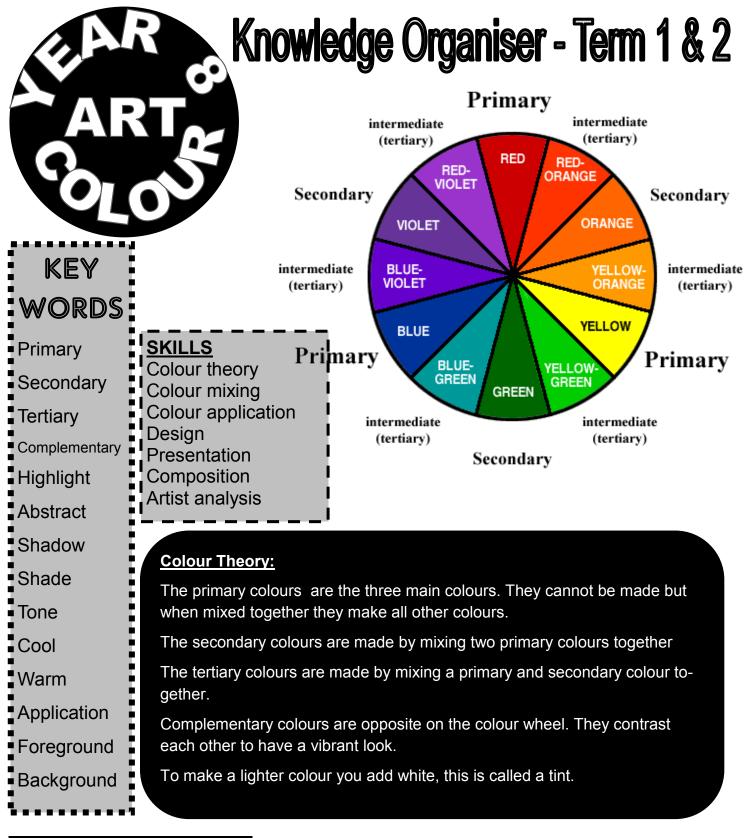
The more often you do this the better. YouTube has some clips on them; search 'Mr Garner look, cover, write, and check 'and 'Mr Garner word up'

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.



Artists inspired by colour	Warm colours - attract attention and are generally perceived
----------------------------	--

as energetic or exciting.

- Claude Monet
- Henri Matisse
- Barbara Rae
- Georgia O'Keeffe
- Mark Rothko
- David Hockney

Cool colours- are generally perceived as soothing and calm.

			,
WARM COL	OURS	<u>COOL COI</u>	LOURS
RED		BLUE	
ORANGE		GREEN	The sale was
YELLOW	IMAGE	VIOLET	

```
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**.

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Formatting

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				Short Date		
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				Time		
			%	Percentage		
			1/2	Fraction		
			10 ²	Scientific		
			ABC	Text		
			M	ore Number Fo	ormats	

mat Cels Sumber Alignment Font Border Fill Protection text alignment General Indent: Verticat Sotom Sotom Suthy distributed Ext control Suthy distributed Ext control Suthy distributed Cells	Orientation T T t T T T T T T T T T T T T T
light-to-left Test direction: Contest	OK Cancel

Every cell in a spreadsheet can be formatted to accept different types of data. Highlight the cells and then select the data for mat you want such as currency.

	Basic Spread	sheet F	or	mulas	To use basic formula, you m always begin with the = sign
-					You can then use the follow symbols:
	Examples of basic f	ormulas:			Add +
	if using Cells B7 a Addition	and C7: =B7+C7			Subtract -
	Subtraction =	B7-C7			Multiply *
	Multiplication	=B7*C7 =B7/C7			Divide /
	DIVISION	-67/07			
				COUNTIF * : X V	<i>f</i> e =
	You can also use the SL tion o add up more tha			A B 1 2 INCOME 3 Ticket Pris 4 Child	earch Function earch for a function: Spece arear description of what you want to do and them Mod 20 Or select a function; whether the selection of the sel

The formula bar gives you access to more complex functions

such as =SUM(B2:B5)

To use basic formula, you must
always begin with the = sign.
 You can then use the following
symbols:
Add +
Subtract -
Multiply *
Divide /

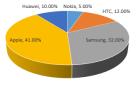


Uses of spreadsheets

- Create Charts to analyse 1. and present data
- **Financial Analysis of** 2. business data
- **Computer Modelling such** 3. as Weather Forecasting
- **Project Planning and Time** 4. Management



World Mobile PhoneMarket Share



BUSINESS PLAN TEMPLATE Project Plan for New Busines Phase 1: Strategic Plan

TASKS	START	END	DAYS				-
Phase 1: Self-Assessment							
Define business vision	9/2	92	0				
Identify skills	93	93	0				
Decide whether to proceed	94	94	0				
Phase 1: Define Opportunity							
Research market	95	95	0				
Conduct interviews	9/6	9/10	4				
identify needed resources	9/11	913	2				
identify operating costs	9/13	914	1				
Phase 1: Evaluate Potential Riska	1		j.				
Assess market size	9/15	917	2				
Estimate competition	8/17	918	1				
Assess needed resources	9/18	919	1				

Drama Knowledge Organiser: Year 8

Marking the moment

Cross - cutting

Humpty Dumpty	Soap Op	era		
 Creating and devising performances based around the then Basic technique - Tableaux, thought track and hot seating. Improvisation- creating a performance on the spot. Using a script to create a character on stage. Non-naturalistic performance style. Sound scape - creating noise using voice and body as an ens Engaging the audience through creating a tense atmosphere 	re 'Bullying'. • Soap • Soap naug • Stor deat e on stage. • Cross	p Opera is a genre. A radio ts and real life situations. opera have stereotypical cl hty teenager, the lad and th ylines reflect real life issue h. on the wall- develop charac scutting – Two scenes happe	s such as mental health, mar	lparent, the riages and split stage.
Christmas Carol	Blood Br	others		
 An interpretation of the book 'A Christmas Carol' about selfish man called 'Scrooge'. Charles Dickens is a writer, journalist and editor in the Role-play - acting out scenes from the book to develop characterisation. Scrooge- selfish, cruel and stubborn who has pushed his personality changes after Christmas to a joyful and who appreciates his family. Tiny Tim - A character who is disabled and needs the huncle. The Ghosts - Christmas past, present and future. 	t a rich and 1800's. s family away. d selfless man	Willy Russle wrote the p The main characters are separated by birth. Mrs Johnstone and Mrs Liverpool at the time. Th Linda is both brothers' b	lay Blood Brothers in the 19 Edward and Mickey; two twi Lyons demonstrate the class ney are both the parents of t best friend and Mickey's futu before the action explaining e created with song.	ns divides in he boys. re wife.
STUDYING DRAMA THROUGH TEXT	Borstal			
 Understanding language and dialogue to interpret plot of Monologues - One-character revealing information to a Exploring how characters develop as the plot progresse What is the purpose of the play? Why was it writte 	n audience • es	Monologue - One speech audience about yourself. Non- naturalistic style - ensemble and narration. Teacher in role - teache realism for the students Script writing - to devel	Tableaux, thought tracking, r acting in role to create a se	the transitions, ense of irections.
KEY WORDS FOR YEAR 8 DRAMA				
Pitch Pace	Pause	Volume	Tone	Diction
Choral Speaking Role on the wall	Gait	Body Language	Facial Expression	Posture

Direct Address

Interpretation of text

Genre

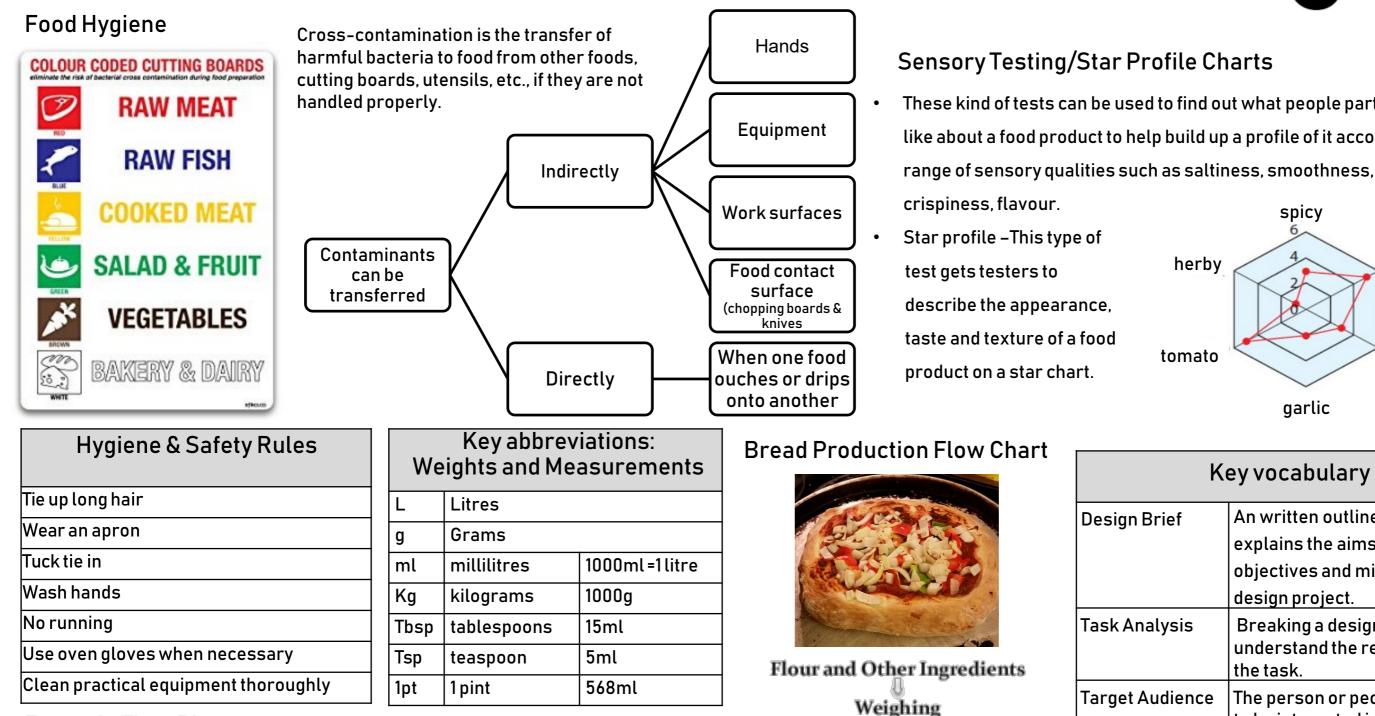
Style

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Design Technology Subjects

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 🦾

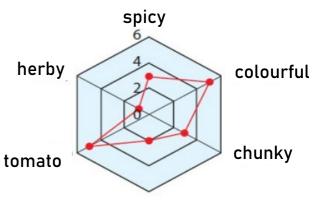
Dividing/Moulding

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

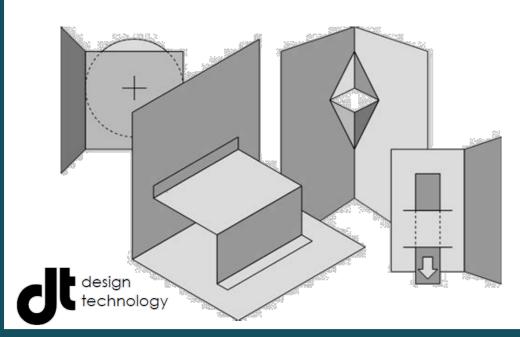
Key vocabulary			
Design Brief	An written outline which explains the aims and objectives and milestones of a design project.		
Task Analysis	Breaking a design brief down to understand the requirements of the task.		
Target Audience	The person or people most likely to be interested in your design or product.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

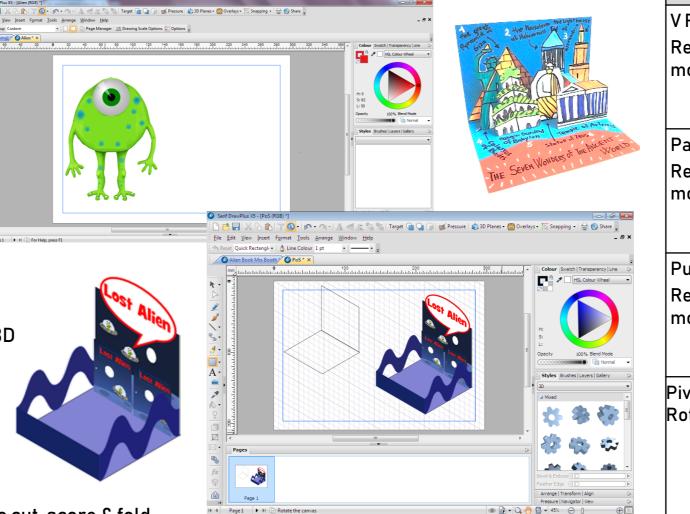
Year 8 Design & Technology (Graphic Products) Knowledge Organiser

Pop Up Story Book

Key Skills

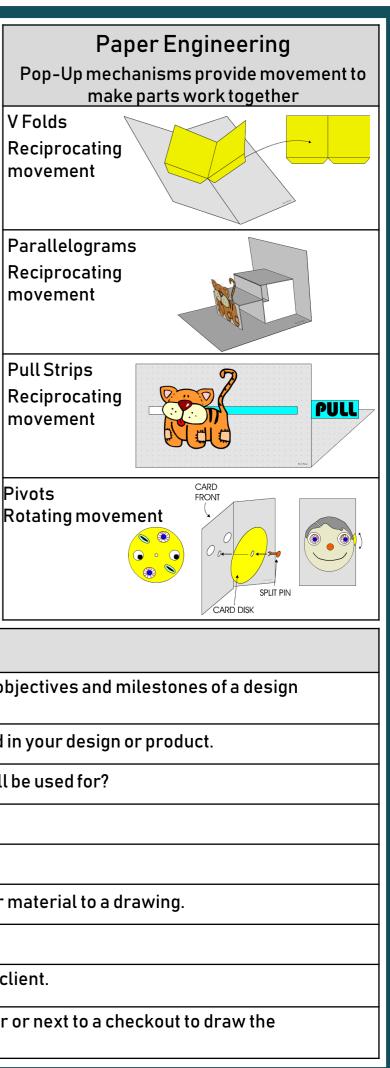
- Responding to a Design Brief
- Analysing & researching information
- Creating a suitable and appealing story idea for an identified target audience
- Developing CAD drawing skills using:
 - o Serif Draw Plus
- Manipulating/editing images & graphics in 2D & 3D
- Rendering shapes, images with colour & 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 objec project.
Target Audience	The person or people most likely to be interested in ye
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 mat
Materials	What something is made from e.g. paper & card.
Modelling	To present ideas to the user (target audience) or clien
Point of sale display	A specialised form of sales promotion found near or r customers' attention to the products,



Year 8 Textiles Knowledge Organiser

Sustainable Children's Toy

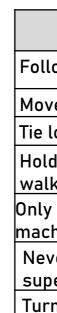
Key Skills

- 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 sewing machine to complete a range of construction techniques:
 - 3D features
 - Inserting wadding
 - Applying buttons & googly eyes
 - o Seams









Product features				
Consideration of a specified target market	Machine appliqué or reverse appliqué			
Interactive	Creative & individual			
Components used as	Features are in proportion			

decoration	to the body shape	super
Recycled fabrics used	Accurate machine stitches	Turn
3D features	Seam allowance	use.
Hand embroidery	Sustainable	Repor teache

	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 a
3D features	Use of wadding to make a feature stand up or
Function	What a product does, how it works and what it educational or both?
Aesthetics	How a product or design looks .
Target Audience	The person or people most likely to be interes
Embroidery	Even stitch widths and lengths completed by h
Reverse appliqué	A decorative technique whereby a fabric is sev is visible from the front
Sustainable	Conserving an ecological balance by avoiding
Appliqué	A decorative technique whereby one material i
Design Brief	An written outline which explains the aims an
_	design project.



Health & safety

Follow teacher instructions

- Move slowly around the room do not run
- Tie long hair back
- Hold scissors or shears correctly when walking around the room.
- Only one person operating a sewing machine at one time
- Never use a sewing machine unless supervised by a teacher/ technician
 - off the sewing machine when not in

ort any injuries or breakages to the ner immediately

/detached or have different textures

a product.

raised off the backing fabric

will be used for? Is it sensory or

sted in your design or product.

hand sewn stitches

wn on the reverse of the top fabric and

the depletion of natural resources.

is sewn on top of another by machine

nd objectives and milestones of a

ENGLISH KNOWLEDGE ORGANISER: SHAKESPEAREAN TRAGEDY AND HISTORY

HAMLET - A REVENGE TRAGEDY

FIRST PERFORMED: circa 1600 **PROTAGONIST:** Prince Hamlet SETTING: Elsinore Castle, in Denmark; medieval era

OTHER SIGNIFICANT CHARACTERS:

Claudius: Hamlet's uncle, and the new king; the antagonist who murdered Old Hamlet Gertrude: Hamlet's mother, the Queen Horatio: Hamlet's friend and confidant

Ophelia: Hamlet's girlfriend; she is driven mad

Laertes: Ophelia's brother; a foil for Hamlet as he is

driven to revenge

Polonius: Father of Ophelia and Laertes; the Lord Chamberlain

The Ghost: Hamlet's father returns to tell him that he was

murdered by his brother

THEMES:

- Madness •
- Revenge and Delay
- Death .
- Parent-child relationships •
- Machiavellian politics ٠

WHY THE PLAY IS A TRAGEDY:

Hamlet is a noble prince whose flaw (hamartia) is his inability to enact the revenge on his Uncle that his father wants.

TRAGIC CONVENTIONS

According to Aristotle, the famous Greek philosopher, a tragedy should feature a tragic hero of noble birth and whose fortunes go from good to bad because of a flaw (hamartia) that they have. The tragic hero always dies as a consequence.

ROMEO AND JULIET - A TRAGIC ROMANCE

FIRST PERFORMED: circa 1595 **PROTAGONISTS:** Romeo Montague and Juliet Capulet SETTING: Verona, in Italy; medieval era

OTHER SIGNIFICANT CHARACTERS:

The Capulet family: Juliet's family

The Montague family: Romeo's family; bitter rivals with the Capulets

Tybalt: Juliet's cousin who hates the Montagues Mercutio: Mercurial and unpredictable (like his name); Romeo's best friend

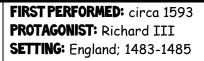
The Friar: Secretly marries Romeo and Juliet and creates a plan to help them be together after Romeo's banishment

THEMES:

- Love.
- Parent-Child relationships
- Family rivalries
- Hastiness

WHY THE PLAY IS A TRAGEDY:

Romeo is a noble man whose flaw (hamartia) is being overhasty and reckless. He makes a lot of decisions that would have benefitted from reflection rather than acting on his emotions - mainly love and anger.



OTHER SIGNIFICANT CHARACTERS:

Richmond: The future Henry VII Edward IV: the dying King

George, Duke of Clarence: the middle of the York brothers who Richard has killed

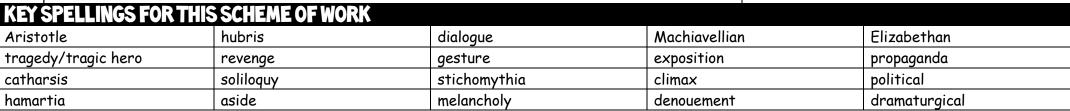
The Princes: The sons (and heirs) of Edward IV who were famously murdered in the Tower of London

The Duke of Buckingham: a loyal supporter of Richard until he goes too far

There are also a number of significant historical figures, including Duchess Cecily, Elizabeth Woodville, Margaret Beaufort and Anne Neville who all conspire against Richard.

WHY THE PLAY IS AN INTERESTING HISTORY:

This play has influenced how we have viewed Richard III, as a hunchbacked Machiavellian tyrant. He is perhaps the chief suspect in the murder of the princes but not the only one. This play also claims him responsible for many other murders, including his own wife, Anne Neville. There is no historical proof of this. This play can be seen as tutor propaganda because Henry VII, who defeated Richard at the Battle of Bosworth, was Elizabeth I's grandfather. Shakespeare wouldn't have wanted to displease the gueen would he!









ENGLISH KNOWLEDGE ORGANISER: TRAVEL WRITING

descriptive

journal

TYPES OF TRAVEL WRITIN	G	STYLE		POPULAR TRAVEL W	RITERS		
Guide books: books and websi	ites	INSTRUCTIVE: Providin	g	MICHAEL PALIN (1943 -)		
for tourists or travellers that provides details about a geogr location, tourist destination, o itinerary. It is the written equivalent of a tour guide. Travel journals and blogs:	aphic	information EVOCATIVE: Capturing the emotions of an experience		Michael Palin is a popula He found fame as part career produced a numl accompanying books - f the World in 80 Days, i Brazil.	of Monty Python but ber of travel program or the BBC. His books	later ir nmes - c s includ	his and e: Around
Generally in diary form, a trav	vel	NARRATIVE: Retelling of events, stories and	OT	BILL BRYSON (1951 -)		
journal contains descriptions of the traveller's experiences, and is normally written during the course of the journey, with the intention of DESCRIPTIVE		anecdotes from trav experiences DESCRIPTIVE: Providing	ecdotes from travel periences Bill Bryson is a very popular travel writer from America. Some of his most popular pieces of travel writing are: <i>Notes</i> <i>from a Small Island</i> which is all about the UK and <i>A Walk in</i>		re: Notes		
journey. Travel journals may b		the settings,		GEORGE ORWELL (1903-1950)			
published in printed form, or online as blogs. Information of travel and destinations can also be found in travel brochures and guides. Reviews can be found online for destinations. Even postcards can be viewed as travel writing as they describe travellers' experiences.		experiences and people met on travel experiences		While famous for his political and journalistic writing, Orwell travelled extensively. He wrote about the working classes in Northern England in <i>The Road to Wigan Pier</i> , about Paris in <i>Down and Out in Paris</i> , fighting in the Spanish Civil War in <i>Homage to Catalonia</i> as well as his experiences in Burma as a policeman where he had to shoot an elephant to protect the villagers.			
CONVENTIONS OF TRAVE	el jou			<u>Cl</u>		C	· · · · ·
First person narrative Detailed descriptions		Humour Facts as well as opinions				Exclar	the past tense
		Dramatic tension		Emotive language Dialogue			
KEY SPELLINGS FOR THIS SCHEME OF WORK				2			
Modes	instru		conv	ventions	juxtaposition		prioritises
guide book	narrat	ive	Str	uctural Analysis	parallel		exposition
blog	evocat	vocative for		egrounds	sequence	complication	

foreshadows

UNIT: 1

YEAR: 8

narrative shift

zoom in/zoom out

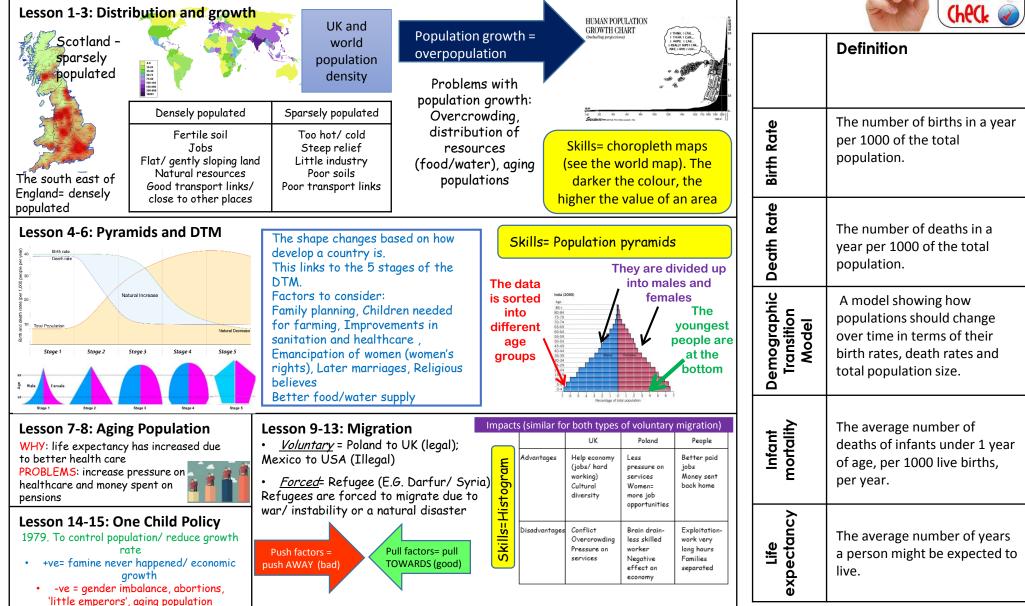


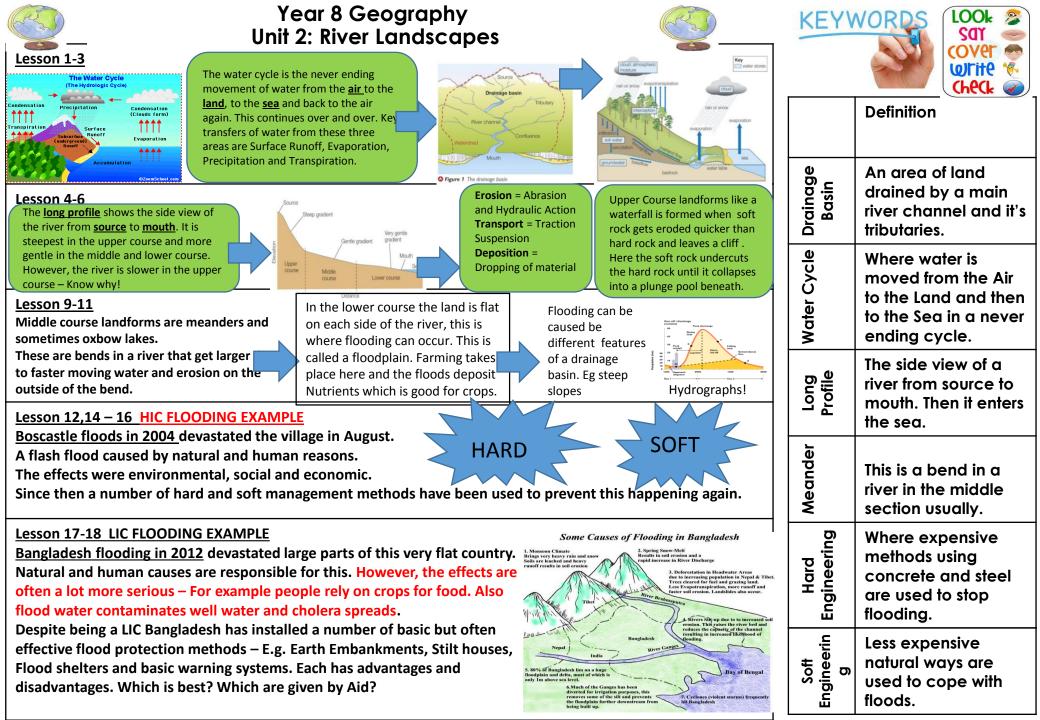
Year 8 Geography Unit 1: Population and Migration













Wellington History

Year 8 HT 1 Knowledge Organiser

How did we survive invasion during Elizabeth's Golden Age?

The voyages of exploration or the voyages of exploitation?



How did the world begin to change in the 1	L5 th Century and 16 th Century?	
 What and why? You will learn how Elizabeth I avoided invasion and decide if she solved the problems her family created. Stop, think and link: The Tudor Dynasty and Medieval Monarchs. Interpretation assessment – How was the Spanish Armada defeated? Want to explore further? Book: 50 Things You Should Know about the Tudors by Rupert Matthews Book: Elizabeth I (History Heroes) by Damien Harvey Book: Terrible Tudors by Terry Deary Websites: https://www.english-heritage.org.uk/learn/story-of- england/tudors/ https://www.bbc.co.uk/bitesize/topics/zkrkscw/articles/zkh7bdm 	 Key Questions Year 7 Chronological recap – themes studied and why. What were Elizabeth's early problems? How did she deal with threats to the crown? Why did Spain want to invade in 1588? What was the Spanish plan and why did it fail? How diverse was Elizabethan England? Was Elizabethan England a Golden Age? How did the voyages of exploration change the world? How should we remember the voyages of exploration? 	 <u>Keywords</u> Reformation A 16th-century movement against the Catholic Church which ended in the establishment of the Protestant Churches. Armada A fleet of warships. Protestant A member or follower of any of the Western Christian Churches that are separate from the Roman Catholic Church in accordance with the principles of the Reformation. 'Golden Age'
	Key events and Key People7 September 1533 Elizabeth was born in Greenwich17 November 1558 Queen Mary I died15 January 1559 Elizabeth I was officially crownedqueen1562 Elizabeth I became very ill with smallpox1577-1580 Sir Francis Drake sailed around the world1586 The Babington Plot was organised, and discoveredby Sir Francis Walsingham11 August 1586 Mary Queen of Scots was arrested forbeing part of the Babington Plot and executed a yearlater1588 The Spanish attempted to invade England via anArmada, and were defeated at sea24 March 1603 Elizabeth I died	A period of peace and prosperity in a country. Heir A person who inherits something. Fireships Ships painted with tar, filled with combustible material and set alight. Beacon A fire or light set up in a high or prominent positio as a warning signal. Martyr A person who is killed due to his / her beliefs. Heretic Someone who disagrees with accepted beliefs.

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Wellington History Year 8 HT 2 Knowledge Organiser

When and why did the monarchy lose control?

How did the Industrial Revolution change peoples lives?



*		
 What and why? You will learn how the Monarchy lost most of their power in the United Kingdom and how the Industrial Revolution changed peoples lives. Stop, think and link: The power of medieval kings Cause and Consequence assessment – How did Parliament become more powerful than the monarchy? Want to explore further? Book: The English Civil War by Blair Worden Book: Slimy Stuarts by Terry Deary Book: Vile Victorians by Terry Deary Websites: https://www.britannica.com/event/Industrial-Revolution https://www.youtube.com/watch?v=G0Ycp3SiOLw 	 Key Questions Year 7 Chronological recap – themes studied and why. What was the Gunpowder Plot? How did Charles I cause a Civil War? Who won the Civil War and why? Who was Oliver Cromwell and how did he rule Britain? Why did Britain bring the Monarchy back? What was the Glorious Revolution? What was the Bill of Rights? What was life like before the Industrial Revolution? How did the Industrial Revolution change peoples lives? 	Keywords Assassination: the murder of someone famous or importantTyrant: a cruel and oppressive rulerCivil War: a war between citizens of the same countryRegicide: to kill a KingRevolution: a forcible overthrow of a government or social order
	Key events and Key People NOVEMBER 5 th 1605: The Gunpowder Plot MARCH 27 th 1625: Coronation of King Charles I AUGUST 22 nd 1642: Start of the English Civil War JANUARY 30 th 1649: The Execution of Charles I 1660: The Restoration of the Monarchy 1688: The Glorious Revolution 1689: The creation of the Bill of Rights JULY 1 st 1690: The Battle of the Boyne between William of Orange and James II	 Dictatorship: form of government in which one person or a small group possesses absolute power Democracy: government by the people; especially : rule of the majority Industry: economic activity concerned with the processing of raw materials and manufacture of goods

Wellington School



Mathematics

Topic/Skill	Definition/Tips	Example
1. Multiple	The result of multiplying a number by an integer.	The first five multiples of 7 are:
	The times tables of a number.	7, 14, 21, 28, 35
2. Factor	A number that divides exactly into another	The factors of 18 are:
	number without a remainder.	1, 2, 3, 6, 9, 18
	It is useful to write factors in pairs	The factor pairs of 18 are:
		1, 18
		2,9
		3,6
3. Lowest	The smallest number that is in the times	The LCM of 3, 4 and 5 is 60 because it
Common	tables of each of the numbers given.	is the smallest number in the 3, 4 and 5
Multiple		times tables.
(LCM)	The higgoet number that divides are after	The HCF of 6 and 9 is 3 because it is
4. Highest	The biggest number that divides exactly	
Common Factor (HCF)	into two or more numbers.	the biggest number that divides into 6 and 9 exactly.
5. Prime	A number with exactly two factors .	The prime numbers up to 50 are:
Number		
	A number that can only be divided by itself and one.	2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47
	The number 1 is not prime, as it only has one factor, not two.	
6. Prime	A factor which is a prime number.	The prime factors of 18 are:
Factor		-
7. Product of	Finding out which prime purchase	2,3
Prime Factors	Finding out which prime numbers multiply together to make the original number.	$36 = 2 \times 2 \times 3 \times 3$ $36 = 2 \times 2 \times 3 \times 3$ $36 = 2 \times 2 \times 3 \times 3$ $36 = 2 \times 2 \times 3 \times 3$ $36 = 2 \times 2 \times 3 \times 3$
	Use a prime factor tree.	2 9
	Also known as 'prime factorisation'.	3 3
8. Place Value	The value of where a digit is within a	In 726, the value of the 2 is 20, as it is
c. i luce vulue	number.	in the 'tens' column.
9. Place Value	The names of the columns that determine	
Columns	the value of each digit.	Millions Hundred Thousands Fen Thousands Thousands Hundreds Certs Certinal Point Leurths Hundredths Hundredths Hundredths Millionths Millionths
	The 'ones' column is also known as the 'units' column.	Millions Hundred Thousands Ten Thousands Thousands Hundreds Tens Ones Decimal Point Tenths Hundredths Thousandths Hundred-Thousandt Millionths
10. Rounding	To make a number simpler but keep its value close to what it was.	74 rounded to the nearest ten is 70, because 74 is closer to 70 than 80.
	If the digit to the right of the rounding digit is less than 5, round down . If the digit to the right of the rounding digit is 5 or more, round up .	152,879 rounded to the nearest thousand is 153,000.

Year 8: Numbers and the Number System

11. Decimal	The position of a digit to the right of a	In the number 0.372, the 7 is in the
Place	decimal point.	second decimal place.
Flace	decimal point.	second decimal place.
		0.372 rounded to two decimal places is
		0.37, because the 2 tells us to round
		down.
		Careful with money - don't write £27.4,
		instead write £27.40
12. Significant	The significant figures of a number are the	In the number 0.00821, the first
Figure	digits which carry meaning (ie. are	significant figure is the 8.
	significant) to the size of the number.	
		In the number 2.740, the 0 is not a
	The first significant figure of a number	significant figure.
	cannot be zero.	
	T 1 1 1 1 1 1 1	0.00821 rounded to 2 significant figures
	In a number with a decimal, trailing zeros	is 0.0082.
	are not significant.	19357 rounded to 3 significant figures
		is 19400. We need to include the two
		zeros at the end to keep the digits in the
		same place value columns.
13. Estimate	To find something close to the correct	An estimate for the height of a man is
	answer.	1.8 metres.
14.	When using approximations to estimate the	$\frac{348 + 692}{0.526} \approx \frac{300 + 700}{0.5} = 2000$
Approximation	solution to a calculation, round each	$-0.526 \sim -0.5 = 2000$
	number in the calculation to 1 significant	
	figure.	'Note that dividing by 0.5 is the same
		as multiplying by 2'
15. Standard	\approx means 'approximately equal to'	$8400 = 8.4 \times 10^3$
Form	$A \times 10^{b}$	$\delta 400 = \delta.4 \text{ X } 10^{\circ}$
	where $1 < 1 < 10$	$0.00036 = 3.6 \times 10^{-4}$
	where $1 \le A < 10$, b = integer (whole number)	0.00000 - 5.0 x 10
	D = integer (whole number)	

Year 8: Numbers and the Number System

Year 8: Calculations

Topic/Skill	Definition/Tips	Example
1. Negative Number	A number that is less than zero . Can be decimals.	-8, -2.5
2. BIDMAS	An acronym for the order you should do calculations in.	$6 + 3 \times 5 = 21, not 45$
	BIDMAS stands for 'Brackets, Indices, Division, Multiplication, Addition and Subtraction'.	$5^2 = 25$, where the 2 is the index/power.
	Indices are also known as 'powers' or 'orders'.	
	With strings of division and multiplication, or strings of addition and subtraction, and no brackets, work from left to right.	$12 \div 4 \div 2 = 1.5, not 6$
3. Substitution	Replace letters with numbers.	a = 3, b = 2 and $c = 5$. Find:
	Be careful of $5x^2$. You need to square first,	1. $2a = 2 \times 3 = 6$ 2. $3a - 2b = 3 \times 3 - 2 \times 2 = 5$
	then multiply by 5.	$3.\ 7b^2 - 5 = 7 \times 2^2 - 5 = 23$
	When using a calculator to substitute, put any substituted value into brackets.	e.g. $a = -5$, calculate the value of $3a^2$ - 2a $3x(5)^2$ $2x(5) = 85$
4. Adding and	Adding a negative is equivalent to	$3x(-5)^2 - 2x(-5) = 85$ 5 + - 2 = 5 - 2 = 3
Subtracting Negative	subtracting.	5 2 = 5 + 2 = 7
Numbers	Subtracting a negative is equivalent to adding.	-5+-2 = -5 -2 = -7
	+	-5 - 2 = -5 + 2 = -3
	+	
5. Multiplying and Dividing	• When the signs are different the answer is negative.	$6 \times -2 = -12$
Negative Numbers	 When the signs are the same the answer is positive. 	$-6 \times -2 = 12$
		$6 \div -2 = -3$
	+ x −)	$-6 \div -2 = 3$
	- × ♣ ♣ ÷ =	
	• ÷ • J	

Year 8: Sequences

Topic/Skill	Definition/Tips	Example
1. Linear	A number pattern with a common	2, 5, 8, 11 is a linear sequence
Sequence	difference.	2, 0, 0, 11 15 a milear sequence
2. Term	Each value in a sequence is called a term.	In the sequence 2, 5, 8, 11, 8 is the third term of the sequence.
3. Term-to- term rule	A rule which allows you to find the next term in a sequence if you know the previous term .	First term is 2. Term-to-term rule is 'add 3'
		Sequence is: 2, 5, 8, 11
4. nth term	A rule which allows you to calculate the term that is in the nth position of the sequence.	nth term is $3n - 1$ The 100 th term is $3 \times 100 - 1 = 299$
	Also known as the 'position-to-term' rule.	
	n refers to the position of a term in a sequence.	
5. Finding the nth term of a	 Find the difference. Multiply that by n. 	Find the nth term of: 3, 7, 11, 15
linear	3. Substitute $n = 1$ to find out what	1. Difference is +4
sequence	number you need to add or subtract to	2. Start with 4 <i>n</i>
	get the first number in the sequence.	3. $4 \times 1 = 4$, so we need to subtract 1
		to get 3.
		nth term = $4n - 1$
6. Fibonacci type sequences	A sequence where the next number is found by adding up the previous two terms	The Fibonacci sequence is: 1,1,2,3,5,8,13,21,34
		An example of a Fibonacci-type sequence is: 4, 7, 11, 18, 29
7. Geometric	A sequence of numbers where each term is	An example of a geometric sequence is:
Sequence	found by multiplying the previous one by	2, 10, 50, 250
	a number called the common ratio, r .	The common ratio is 5
		Another example of a geometric sequence is: $81, -27, 9, -3, 1 \dots$
		The common ratio is $-\frac{1}{2}$
8. Quadratic	A sequence of numbers where the second	2 6 12 20 ³ 30 42
Sequence	difference is constant.	+4 +6 +8 +10 +12 +2 +2 +2 +2
	A quadratic sequence will have a n^2 term.	-2 -2 -72
9. Triangular numbers	The sequence which comes from a pattern of dots that form a triangle.	
	1, 3, 6, 10, 15, 21	

Topic/Skill	Definition/Tips	Example
1. Similar Shapes	Shapes are similar if they are the same shape but different sizes . The proportion of the matching sides must	
	be the same, meaning the ratios of corresponding sides are all equal.	
2. Scale Factor	The ratio of corresponding sides of two similar shapes. To find a scale factor, divide a length on one shape by the corresponding length on a similar shape.	$ \begin{array}{c} 16 \\ 10 \\ 15 \\ 15 \\ Scale Factor = 15 \div 10 = 1.5 \end{array} $
3. Finding missing lengths in similar shapes	 Find the scale factor. Multiply or divide the corresponding side to find a missing length. If you are finding a missing length on the larger shape you will need to multiply by the scale factor. 	2cm 3cm 4.5cm x
	If you are finding a missing length on the smaller shape you will need to divide by the scale factor.	Scale Factor = $3 \div 2 = 1.5$ $x = 4.5 \times 1.5 = 6.75cm$
4. Enlargement	The shape will get bigger or smaller . Multiply each side by the scale factor .	Scale Factor = 3 means '3 times larger = multiply by 3' Scale Factor = ½ means 'half the size = divide by 2'
5. Finding the Centre of Enlargement	Draw straight lines through corresponding corners of the two shapes. The centre of enlargement is the point where all the lines cross over . Be careful with negative enlargements as the corresponding corners will be the other way around.	A to B is an enlargement SF 2 about the point (2,1)
6. Scale (Map)	The ratio of a distance on the map to the actual distance in real life .	1 in. = 250 mi 1 cm = 160 km

5

200

400 Kilometers

Year 8: Visualising and Constructing

7. Bearings	1. Measure from North (draw a North line)	The bearing of B from A
	2. Measure clockwise	
	3. Your answer must have 3 digits (eg.	<i>"</i>
	047°)	
	Look out for where the bearing is measured	
	from.	The bearing of A from B B
0.0		N
8. Compass Directions	You can use an acronym such as 'Never Eat Shredded Wheat' to remember the	i i i i i i i i i i i i i i i i i i i
Directions	order of the compass directions in a	NW NE
	clockwise direction.	
	clockwise direction.	W - E
	Bearings: $NE = 045^\circ$, $W = 270^\circ etc$.	sw 🖌 🖹 se
		•
0.01.1		<u> </u>
9. Plans and Elevations	This takes 3D drawings and produces 2D	Original 3D Drawing
Elevations	drawings.	Diawing
	Plan View: from above	
	Side Elevation: from the side	
	Front Elevation: from the front	
		2D Drawings
		Plan Front Elevation Side Elevation

Year 8: Visualising and Constructing

Topic/Skill	Definition/Tips	Example	
1. Expression	A mathematical statement written using symbols , numbers or letters ,	$3x + 2$ or $5y^2$	
2. Equation	A statement showing that two expressions are equal	2y - 17 = 15	
3. Identity	An equation that is true for all values of the variables	$2x \equiv x + x$	
	An identity uses the symbol: \equiv		
4. Formula	Shows the relationship between two or more variables	Area of a rectangle = length x width or A= LxW	
5. Simplifying Expressions	Collect 'like terms'.	2x + 3y + 4x - 5y + 3 = 6x - 2y + 3	
	Be careful with negatives. x^2 and x are not like terms.	$3x + 4 - x^2 + 2x - 1 = 5x - x^2 + 3$	
6. <i>x</i> times <i>x</i>	The answer is x^2 not $2x$.	Squaring is multiplying by itself, not by 2.	
7. $p \times p \times p$	The answer is p^3 not $3p$	If p=2, then $p^3=2x2x2=8$, not 2x3=6	
8. $p + p + p$	The answer is 3p not p^3	If p=2, then $2+2+2=6$, not $2^3 = 8$	
9. Expand	To expand a bracket, multiply each term in the bracket by the expression outside the bracket.	3(m+7) = 3x + 21	
10. Factorise	The reverse of expanding . Factorising is writing an expression as a product of terms by ' taking out' a common factor .	6x - 15 = 3(2x - 5), where 3 is the common factor.	
11. Inverse	Opposite	The inverse of addition is subtraction. The inverse of multiplication is division.	
12. 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	
		Add 1 to both sides yz = 2x - 1 yz + 1 = 2x	
		Divide by 2 on both sides $\frac{yz+1}{2} = x$ We now have x as the subject	
13. Writing Formulae	Substitute letters for words in the question.	We now have x as the subject. Bob charges £3 per window and a £5 call out charge.	

	1	Ι
		C = 3N + 5
		Where N=number of windows and
		C=cost
14.	Replace letters with numbers.	a = 3, b = 2 and $c = 5$. Find:
Substitution		1. $2a = 2 \times 3 = 6$
	Be careful of $5x^2$. You need to square first,	2. $3a - 2b = 3 \times 3 - 2 \times 2 = 5$
	then multiply by 5.	$3.7b^2 - 5 = 7 \times 2^2 - 5 = 23$
15.	When multiplying with the same base	$7^5 \times 7^3 = 7^8$
Multiplication	(number or letter), add the powers.	$a^{12} \times a = a^{13}$
Index Law		$4x^5 \times 2x^8 = 8x^{13}$
	$a^m \times a^n = a^{m+n}$	
16. Division	When dividing with the same base (number	$15^7 \div 15^4 = 15^3$
Index Law	or letter), subtract the powers.	$x^9 \div x^2 = x^7$
		$20a^{11} \div 5a^3 = 4a^8$
	$a^m \div a^n = a^{m-n}$	
17. Brackets	When raising a power to another power,	$(y^2)^5 = y^{10}$
Index Laws	multiply the powers together.	$(6^3)^4 = 6^{12}$
		$(5x^6)^3 = 125x^{18}$
	$(a^m)^n = a^{mn}$	
18. Notable	$p = p^1$	$99999^0 = 1$
Powers	$p^{0} = 1$	
19. Negative	A negative power performs the reciprocal.	2-2 1 1
Powers	1	$3^{-2} = \frac{1}{3^2} = \frac{1}{9}$
	$a^{-m} = \frac{1}{a^m}$	

Topic/Skill	Definition/Tips	Example
1. Simplifying	Divide the numerator and denominator	20 4
Fractions	by the highest common factor.	$\overline{45} = \overline{9}$
2. Equivalent Fractions	Fractions which represent the same value .	$\frac{2}{5} = \frac{4}{10} = \frac{20}{50} = \frac{60}{150} \text{ etc.}$
3. Fractions to Decimals	Divide the numerator by the denominator using the bus stop method.	$\frac{3}{8} = 3 \div 8 = 0.375$
4. Decimals to Fractions	Write as a fraction over 10, 100 or 1000 and simplify.	$0.36 = \frac{36}{100} = \frac{9}{25}$
5. Percentages to Decimals	Divide by 100	$8\% = 8 \div 100 = 0.08$
6. Decimals to Percentages	Multiply by 100	$0.4 = 0.4 \times 100\% = 40\%$
7. Fractions to Percentages	Percentage is just a fraction out of 100. Make the denominator 100 using equivalent fractions . When the denominator doesn't go in to	$\frac{3}{25} = \frac{12}{100} = 12\%$ $\frac{9}{17} \times 100 = 52.9\%$
	100, use a calculator and multiply the fraction by 100 .	1,
8. Percentages to Fractions	Percentage is just a fraction out of 100. Write the percentage over 100 and simplify.	$14\% = \frac{14}{100} = \frac{7}{50}$
9. Recurring Decimal	A decimal number that has digits that repeat forever.	$\frac{1}{3} = 0.333 \dots = 0.\dot{3}$
	The part that repeats is usually shown by placing a dot above the digit that repeats, or dots over the first and last digit of the	$\frac{1}{7} = 0.142857142857 \dots = 0.\dot{1}4285\dot{7}$
	repeating pattern.	$\frac{77}{600} = 0.128333 \dots = 0.128\dot{3}$

10.17	4			4	1		
10. Key	$\frac{1}{2}$	0.5	50%	$\frac{1}{\pi}$	0.2	20%	
Conversions:	$\frac{2}{1}$	0.25	25%	<u>2</u>	0.4	40%	
	$\frac{4}{3}$	0.75	75%	$\frac{5}{3}$	0.6	60%	
	$\frac{4}{1}$	0.3 (0.33333)	33.33333%	<u>5</u> 4 -	0.8	80%	
	$\frac{3}{2}$	0.Ġ(0.666666)	66.66666%	$\frac{5}{1}$	0.1	10%	
		0.125	12.5%	$\frac{2}{10} = \frac{1}{5}$	0.2	20%	
	$\frac{2}{8} = \frac{1}{4}$	0.25	25%	$\frac{10}{3}$	0.3	30%	
	$\frac{3}{8}$	0.375	37.5%	$\frac{4}{10} = \frac{2}{5}$	0.4	40%	
	$\frac{4}{8} = \frac{1}{2}$	0.5	50%	$\frac{10}{5} = \frac{1}{2}$	0.5	50%	
	$\frac{5}{8}$	0.625	62.5%	$\frac{10}{\frac{6}{10}} = \frac{3}{5}$	0.6	60%	
	$\frac{6}{8} = \frac{3}{4}$	0.75	75%	$\frac{10}{7}$	0.7	70%	
	$\frac{7}{8}$	0.875	87.5%	$\frac{8}{10} = \frac{4}{5}$	0.8	80%	
	0			$\frac{9}{10}$	0.9	90%	

<u>Year 8 French Knowledge Organiser HT1</u> <u>Ma ville My town</u>

Present tense key verbs	
j'habite	I live
tu habites	you live
il/elle habite	he/she lives
nous habitons	we live
vous habitez	you (formal) live
ils/elles habitent	they live
je vais	I go
tu vas	you go
il/elle va	he /she goes
nous allons	we go
vous allez	you go
ils /elles vont	they go
on peut + infinitive	you can

Future (conditional) tense	
j'aimerais	I would like
je voudrais	I would like
il/elle voudrait	he/she would like
il y aurait	there would be
ce serait	it would be

Connectives and sequencers		
mais	but	
cependant	however	
aussi	also	
pui <i>s</i>	then	
d'abord	firstly	
ensuite	next	
après	after	

Giving an opinion	
je pense que	I think that
à mon avis	in my opinion
je préfère	I prefer
j'adore	I love
j'aime	I like
je n'aime pas	I don't like
je déteste	I hate

<u>Adjectives</u>	
ennuyeux	boring
rasant	boring
barbant	boring
passionnant	exciting
amusant	fun/funny
confortable	comfortable
douillet	cosy
beau/belle	beautiful
joli	pretty
nouveau/nouvelle	new
modern	modern
<u>Comparisons</u>	
plusque	morethan
moinsque	lessthan

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

<u>Useful phrases</u> il y a	there is/there are
il n'y a pas de	there is/are no
on peut + infinitive	you can
on ne peut pas	you cannot

Places in town	
un centre commercial	a shopping
	centre
un centre de loisirs	a leisure centre
un château	a castle
une église	a church
un marché	a market
un parc	a park
un stade	a stadium
une patinoire	an ice rink
une piscine	a swimming pool
des magasins	shops
des musées	museums

Countries	
Je voudrais habiter	I would like to
live	
en Angleterre	in England
en France	in France
en Espagne	in Spain
en Allemagne	in Germany
en Ecosse	in Scotland
en Australie	in Australia
au Portugal	in Portugal
au Pays de Galles	in Wales
aux Etats-unis	in the USA

<u>Year 8 French</u> Knowledge Organiser HT2		
<u>La technologie</u>		
une maison	a house	
un appartement	a flat	
la rue	the street	
à la campagne in th	ne country	
dans un village	in a village	

in a town

dans une ville

Rooms in a house		
chez moi	in my	/ home
la chambre	the b	pedroom
la cuisine	the l	kithcen
le jardin	the g	garden
la salle à mar	nger	the dining
		room
la salle de bo	ains	the
		bathroom
le salon	the l	iving 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	l 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 Je regarde I watch Tu regardes you watch il/elle regarde he/she watches nous regardons we watch vous regardez you (formal) watch ils/elles regardent they watch

je vais I go you go il/elle va he /she goes nous allons we go vous allez you go ils /elles vont they go I do je fais tu fais you do he/she does il/elle fait

we do

you do

they do

tu vas

nous faisons

vous faites

ils/elles font

	<u>Weather</u>		
	Il fait beau	it is nice	
	Il pleut	it is raining	
	Il fait chaud	it is hot	
	Il fait froid	it is cold	
	<u>On TV</u>		
	les dessins animés	s cartoons	
	les infos	the news	
	les jeux télévisés	game shows	
	la météo	the weather	
	les séries	series	
	les documentaires	;	
	les émissions de sport		
	les émissions de t	élé-réalité	
	Internet		
	Je fais des achats	s en ligne	
	I	do online shopping	
	Je fais des reche		
	I	do searches	
	J'envoie	I send	
	Je mets à jour	I update	
	Je joue à des jeux	k en ligne	
	I play games on line		
		· · · -	
	Time phrases: W	hen?	
	le weekend at	the weekend	
	le matin in	the morning	
	l'après midi in	the afternoon	
	•	the evening/at	
5		ght S	
	<u>samedi</u> matin on	•	
		, prning	
	dimension annà a	5	

dimanche après-midi on Sunday afternoon

Past tense	
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

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

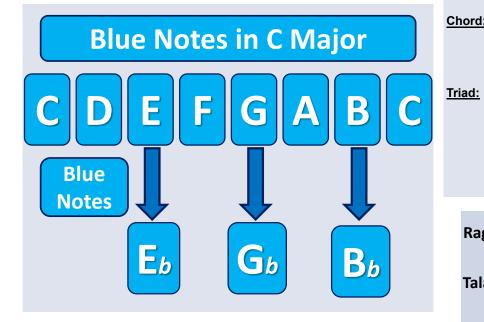
<u>Adjectives</u>	
ennuyeux	boring
rasant	boring
barbant	boring
passionnant	exciting
amusant	fun/funny
confortable	comfortable
douillet	cosy
assez bien	quite good
chouette	excellent
effrayant	frightening
émouvant	moving
passionnant	exciting
pratique	practical

<u>Activities (Aktivitäten)</u>			Countrie	es (Die Länd	der)	Was hast du gemacht?	What did you do?		
Activities (Aktivitäten) Was machst du im Winter winter ? Ich spiele Fußball Tennis am Computer Ich gehe einkaufen ins Kino Ich fahre Snowboard	st du im Winter ? What do you do in I play ball football inis tennis Computer on the computer I go kaufen shopping to the cinema		EnglandEnglandI playEnglandFrankreichfootballGriechenlandGreecetennisIrlandIrelandon the computerItalienItalyI goÖsterreichAustriashoppingPortugalPortugalto the cinemaSchottlandScotland		America England France Greece Ireland Italy	Ich habe Volleyball gespielt Postkarten gekauft einen Film gesehen Croissants/Pizza gegesser Mineralwasser getrunken eine Radtour gemacht Ich bin schwimmen gegangen ins Café gegangen Ski/Snowboard gefahren	I played volleyball I bought postcards I saw a film en I ate croissants/pizza I drank mineral water I did a bike ride I went swimming I went to the café		
Ich lese	I read	5	Wales		Wales	skiing/snowboarding			
Ich faulenze	I laze abou	ıt I	Traice		TT GIOS	wander gegangen	I went hiking		
<u>The Seasons (Die Jahre</u> im Frühling im Sommer im Herbst im Winter	<u>szeiten)</u> in the spring in the summer in the autumn in the winter	für eine W für zwei W für zehn To manchmal oft nie	/ochen	for for		den Sommerferien?thIch war in (+ country)IIch war zu HauseIFür wie lange?FaFürFa	Sommerferien) Vhere were you in the summer holidays? was in (+ country) was at home tor how long? or ow was it?		
<u>Weather (Das Wetter)</u> Wie ist das Wetter? What is the weather like?				Connectives			It was How was the weather?		
Es ist schön sonnig windig wolkig	It is nice sunny windy cloudy			und aber denn weil (+verb to en	and but because because nd)	Es warItEs hat geregnetItWo hast du gewohnt?WIch habeIin einem Hotel	t was t rained /here did you stay? stayed in a hotel		
workingcloudynebligfoggyfrostigfrostyheiβhotkaltcoldEs regnetIt's rainingEs schneitIt's snowingEs donnert und blitztIt's thundering and lightning				Qualifiers of Intensifiers sehr ziemlich ganz zu		in einer Ferienwohnung in einer Jugendherberg in einem Ferienhaus auf einem Campingplatz bei Freunden bei meiner Familie gewohnt.	erge in a youth hostel in a hoiday house atz on a campsite with friends with my family		

<u>Was hast du gemacht?</u>	What did you do?	Year 8 German Knowledge	e Organisers	<u>Auf dem Markt</u>	<u>At the</u>
Ich habe					<u>market</u>
Volleyball gespielt	I played volleyball	The Summer Holidays (Die Somm	erferien)	Bitte sehr?	Can I help
Ich habeVolleyball gespieltI played volleyballPostkarten gekauftI bought postcardseinen Film gesehenI saw a filmCroissants/Pizza gegessenI ate croissants/pizzaMineralwasser getrunkenI drank mineral watereine Radtour gemachtI did a bike rideIch binI drank mineral waterschwimmen gegangenI went swimmingins Café gegangenI went swimmingskiing/snowboardingI went to the caféSki/SnowboardingI went hikingwandern gegangenI went hikingDie UhrzeitThe timeWie viel UhrWhat time isist es?it?Wie spät istWhat time ises ist zweiIt's twoUhr.o'clock.Es ist ViertelIt's quartervor zwei.to two.Es ist zehnIt's ten towarietwo		Wo hast du gewohnt? Where did			уои?
einen Film gesehen	I saw a film	Ich habe I st	tayed	Haben Sie ?	Do you have
Croissants/Pizza geges	sen Iate croissants/pizza		hotel		any ?
Mineralwasser getrunk	en I drank mineral water	in einer Ferienwohnungin a		Äpfel	apples
eine Radtour gemacht	I did a bike ride	in einer Jugendherberge	in a youth hostel	Bananen	bananas
Ich bin		in einem Ferienhaus	in a holiday	Birnen	pears
schwimmen gegangen	I went swimming	house	on a compaito	Champignons	mushrooms
ins Café gegangen	I went to the café	auf einem Campingplatz bei Freunden	on a campsite with friends	Erdbeeren	strawberrie
Ski/Snowboard gefahr	en Iwent	bei meiner Familie	with my family	Karotten	carrots
skiing/snowboarding		gewohnt.		Kartoffeln	potatoes
wandern gegangen	I went hiking			Kirschen	cherries
				Orangen	oranges
Die Uhrzeit The time	Im Café II	<u>n the café</u>		Tomaten	tomatoes
	g 🛛 Was möchtest du 🛛 Wha	at would you		Trauben	grapes
	like		What do you like	Zwiebeln	onions
Wie spät ist What time i	Image: Second state of the second s		to eat / drink?	Ich möchte fünfzig	I'd like 50 g
1	als Hauptgericht as a	5	I like (eating)	Gramm (Kirschen),	of (cherries),
Es ist zwei It's two		5	I don't like (eating)	bitte.	please.
-		at would you to drink? Brot.	 bread.	hundert Gramm	100 g
		Tashumt	yoghurt.	zweihundert Gramm	200 g
•		Väca	cheese.	zweihundertfünfzig	250 g
		sn. Kuchen	cake.	Gramm	
	gespieltI played volleyballn gekauftI bought postcardsgesehenI saw a film/Pizza gegessenI ate croissants/pizzasser getrunkenI drank mineral waternur gemachtI did a bike riden gegangenI went swimmingegangenI went swimmingingI went to the caféingI went to the caféingI went hikingegangenI went hikingThe timeI went hikingThe time isI went hikingit?What time isit?What time isit?Is VorspeiseWhat time isals Vorspeiseit?als NachtischVis quarterikto two.It's quarterpast two.It's twentyit's half pastthedas Steak.thedas Steak.thedas Steak.the	alad. Marmelade.	fünfhundert Gramm	500 g	
		JCHINKEN.	jam. ham.	siebenhundertfünfzig	750 g
•		omato soup. Ich trinke gern	I like drinking	Gramm	
Es ist zwanzig It's twenty		ake / gateau. (Saft) .	(juice).	ein Kilo	1 kg
		e-cream. Ich trinke nicht gern	I don't like drinking	zwei Kilo	2 kg
1	+	nicken. (Cola) .	(cola).	Sonst noch etwas?	Anything
. '	aas Steak. the st		14/h at ign/t the second		else?
		shake. Was gibt es nicht?	What isn't there?	Das ist alles.	That's all.
	eine Limo. a lemo	kainan Toohunt	There isn't any yoghurt.	Das macht (neun)	That will be
		eral water. kein Brot. ng, thanks.	bread.	Euro (fünfzig), bitte.	(nine) euros (fifty),



Music Year 8 Knowledge Organiser: Improvisation (Autumn Term)



Learning to Play the 12-Bar Blues

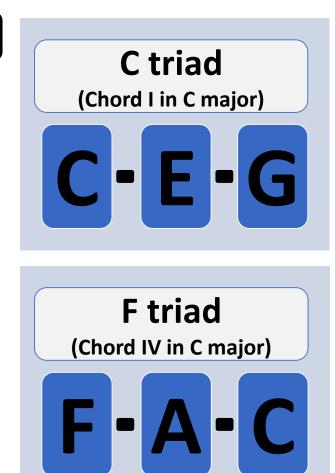
С	1	1	1	C	1	1	1	C	1	1	1	C	1	1	1
F	1	1	1	F	1	1	1	С	1	1	1	С	1	1	1
G	1	1	1	F	1	1	1	с	1	1	1	С	1	1	1







- **<u>Chord:</u>** 2 or more notes played at the same time. There are many types of chords major, minor, diminshed, augmented. 7th chords are also very common.
 - **d:** A type of chord that has only 3 notes. You can work out the notes in a triad by playing the chord note, miss a note, play a note, miss a note and play a note.
 - Raga The melody. Melodic improvisations are based on rags and ragas
 - Tala –The rhythm. The number of beats are
called tals or talas. Talas are cycles of 4 –
16 beats.
 - **Drone** The harmony. In Indian music there are no chords just drones. This will usually be played on the tambura
- **Interval:** the space between one note and another note.
- Tone: When the interval between one note and another is 2 steps (that includes the black notes).
- Semitone: When the interval between one note and another is 1 step (that includes the black notes).



G triad (Chord V in C major) G - B - D

Unit 1: Drugs 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

Develop awareness about the different families of drugs and their effects.

Develop knowledge about the legal categories of drugs.

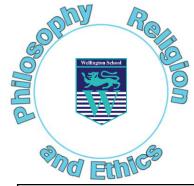
Develop our awareness of the prevalence of drug use.

Understand the dangers of drug use and the reasons why people use them.

Understand the UK drug laws.







<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?

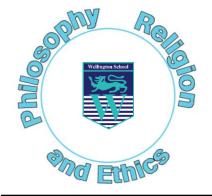
Why were the Jewish people persecuted in the Holocaust? Can you list at least 3 reasons? What effect might the Holocaust have on Jewish people today? How do Jewish people justify their belief in God after the holocaust?

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?

Philosophy

Curriculum

Organiser

Lesson 3

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

8C3 Combustion Knowledge Organiser

Burning Fuels

Fuels are usually **hydrocarbons** which are burnt to release **energy.**

Examples of fuels are: wood, methane, petrol and diesel.

When a hydrocarbon burns it reacts with oxygen from the air to produce **carbon dioxide** and **water**. However, when Hydrogen burns it reacts with oxygen from the air to produce water only.

Fire Safety







Flammable

Oxidising

Explosive

The three sides of the fire triangle are: fuel, oxygen and heat.

If you want to put out a fire you remove at least one side of the fire triangle. It is easier to remove the heat or oxygen than the fuel.

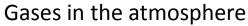
Burning Candles

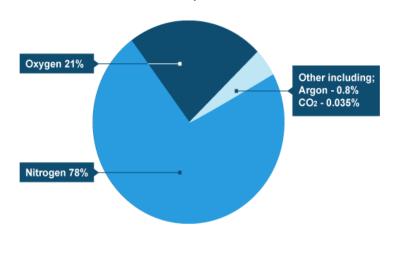
An experiment to find the effect of volume of air on the burning time of a candle.

The method is:

- 1. Place a small candle on a safety mat.
- 2. Light the candle.
- Place a 100 cm³ beaker over the candle and start the stop clock.
- 4. Time how long it takes for the candle to go out.
- 5. Repeat with four more different sized beakers.
- 6. Repeat each beaker 3 times.

Result: As the size of the beaker increases the time taken also increases.





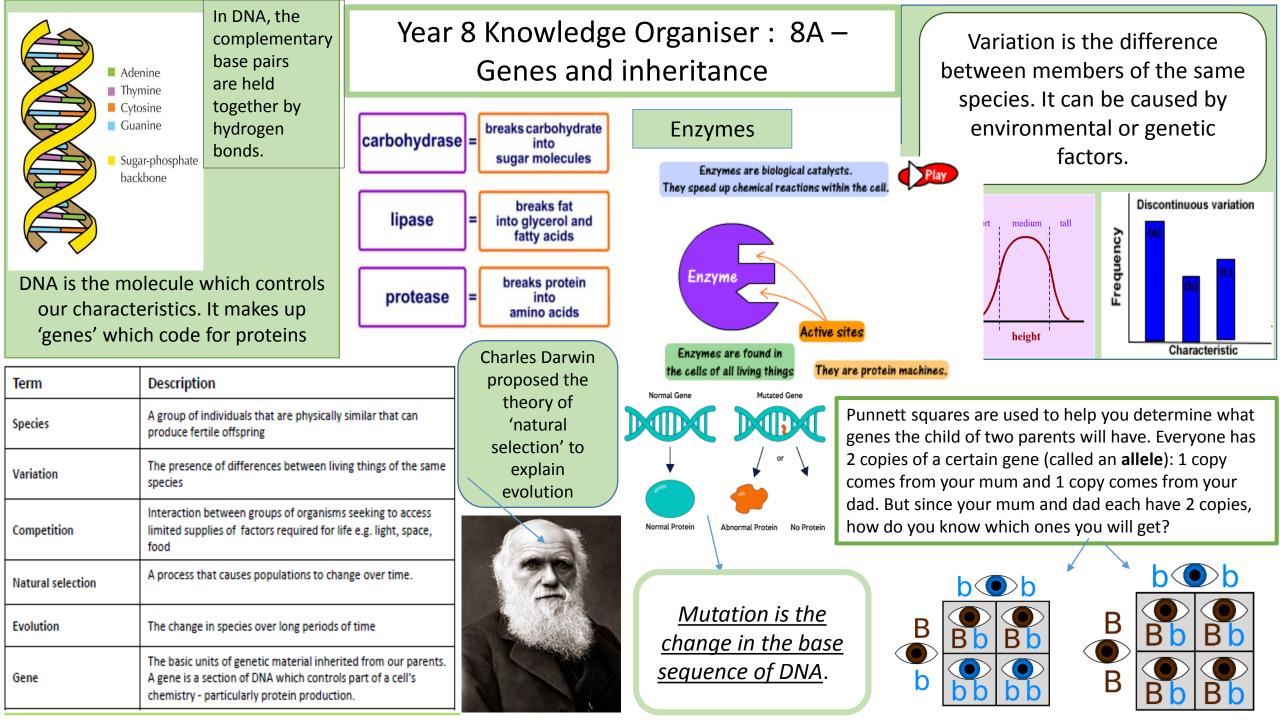
Air Pollution

Lots of pollutants are released when fuels burn.

For example;

Carbon dioxide, nitrogen oxides and sulphur dioxide.

These gases cause environmental problems such as acid rain. This happens when sulphur reacts with oxygen to make sulphur dioxide and then it dissolves in rain water to make it acidic



Thermal energy vs Temperature

Thermal energy – The total kinetic energy of the particles in a material, measured in joules or J.

Temperature- A measure of the average kinetic energy of the particles in a material. The temperature of an object is to do with how hot or cold it is, measured in degrees Celsius.

e.g. A swimming pool at 30°C is at a lower **temperature** than a cup of tea at 80°C. But the swimming pool contains more water, so it stores more thermal energy than the cup of tea.

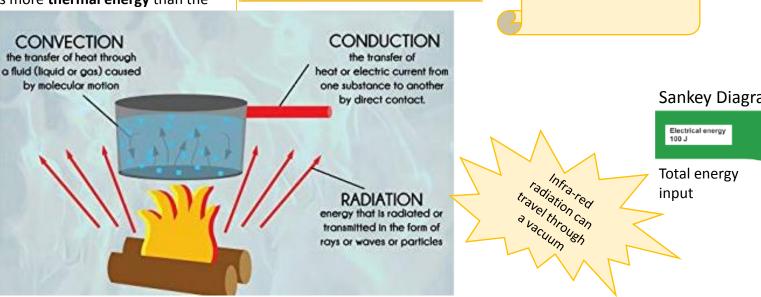
Conduction

Particles bump into nearby particles and make them vibrate more. This passes the thermal energy through the substance by conduction, from the hot end to the cold end.

Convection

Particles with a lot of thermal energy in a liquid or gas move apart, the liquid or gas becomes less dense and rises, taking the place of particles with less thermal energy.

Infra-red Radiation



Convection

current

Year 8 P3 Knowledge Organiser : Energy Transfers

Power

Energy cannot be

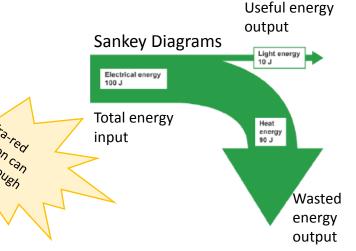
created or

destroyed, only

transferred from one

form to another.

- Power is the rate at which energy is used and is measured in Watts.
- The power of an electrical appliance is shown on the rating plates in Watts



All objects transfer thermal energy by emitting infra-red radiation, the hotter an object is the more infra-red radiation it emits. Infra-red radiation is part of the electromagnetic spectrum.

$$Efficiency (\%) = \frac{Useful \, energy \, output}{Total \, energy \, input} (\times 100) \quad Power \, (W) = \frac{Energy \, transferred \, (J)}{Time \, taken \, (s)}$$

Specific Heat Capacity is how much energy can be stored as heat in 1kg of material. Specific Latent Heat is how much energy is required to melt or to evaporate 1kg of material.

Insulation (if a material is a poor conductor we say it is an insulator) is used to reduce energy transfers by heating. You will have some insulation in your own home e.g. double glazed windows or cavity wall insulation. This acts to stop conduction and convection through the walls and roof of your house.

