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.

## 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
*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. Look, cover write, check - look at part of the knowledge organiser, cover it, write as much as you can remember and then check it
2. Word up - 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 <br> ART <br> SKILLS <br> <br> KNOWLEDGE <br> <br> KNOWLEDGE <br> <br> ORGANISER

 <br> <br> 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



## 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

KS3 Computing: Algorithms "A step-by-step process to perform a task."


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)

| 3 | 29 | 34 | 39 | 54 | 57 | 59 | 63 | 77 | 91 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| 3 | 29 | 34 | 39 | 54 | 57 | 59 | 63 | 77 | 91 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

D. Examine middle element of list (63)

| 3 | 29 | 34 | 39 | 54 | 57 | 59 | 63 | 77 | 91 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

E. $77>63$, so discard 63 and below

| 3 | 29 | 34 | 39 | 54 | 57 | 59 | 63 | 77 | 91 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

F. Examine middle element of list (77). Search item found!

| 3 | 29 | 34 | 39 | 54 | 57 | 59 | 63 | 77 | 91 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

A binary search is much more efficient than a linear search.

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

| $[40,88]$ | $[2,8]$ | $[1,3]$ | $[36,54]$ |
| :---: | :---: | :---: | :---: |
| $\left[\right.$     <br> $[2,8,40,88]$    $[1,36,54]$ |  |  |  |

[1,2,3,8,36,40,54,88]

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.

```
from turtle import *
down()
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
$\mathrm{fd}(50)$ moves the turtle forward 50 steps.
$\mathrm{rt}(90)$ 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.

## Computing: Programming with Python

```
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.

```
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

## Humpty Dumpty

- Creating and devising performances based around the theme 'Bullying'.
- 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 ensemble.
- Engaging the audience through creating a tense atmosphere on stage.


## Christmas Carol

- An interpretation of the book 'A Christmas Carol' about a rich and selfish man called 'Scrooge'.
- Charles Dickens is a writer, journalist and editor in the 1800's.
- Role-play - acting out scenes from the book to develop characterisation.
- Scrooge- selfish, cruel and stubborn who has pushed his family away. His personality changes after Christmas to a joyful and selfless man who appreciates his family.
- Tiny Tim - A character who is disabled and needs the help of his uncle.
- The Ghosts - Christmas past, present and future.


## STUDYING DRAMA THROUGH TEXT

- Understanding language and dialogue to interpret plot and character
- Monologues - One-character revealing information to an audience
- Exploring how characters develop as the plot progresses
- What is the purpose of the play? Why was it written?


## Soap Opera

- Soap Opera is a genre. A radio or television drama dealing with daily events and real life situations.
- Soap opera have stereotypical characters such as: The grandparent, the naughty teenager, the lad and the strong female.
- Storylines reflect real life issues such as mental health, marriages and death.
- Role on the wall- develop characterisation.
- Crosscutting - Two scenes happening at the same time with a split stage.
- Marking the moment - highlighting an important moment in the play.


## Blood Brothers

- Willy Russle wrote the play Blood Brothers in the 1970's.
- The main characters are Edward and Mickey; two twins separated by birth.
- Mrs Johnstone and Mrs Lyons demonstrate the class divides in Liverpool at the time. They are both the parents of the boys.
- Linda is both brothers' best friend and Mickey's future wife.
- Prologue - Piece of text before the action explaining what is about to happen.
- Musical theatre- Theatre created with song.


## Borstal

- Borstal is a youth offending prison in the early 1900's.
- Monologue - One speech on stage in character telling the audience about yourself.
- Non- naturalistic style - Tableaux, thought tracking, transitions, ensemble and narration.
- Teacher in role - teacher acting in role to create a sense of realism for the students.
- Script writing - to develop a monologue using stage directions.
- Research into real life people using real life accounts.


## KEY WORDS FOR YEAR 8 DRAMA

| Pitch | Pace | Pause | Volume | Done | Faction |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Choral Speaking | Role on the wall | Gait | Body Language | Posture |  |
| Cross - cutting | Marking the moment | Direct Address | Interpretation of text | Genre | Style |

## Year 8 Cooking \& Nutrition Mediterranean Cuisine Knowledge Organiser

Food Hygiene
COLOUR CODED CUTTING BOARDS


RAW MEAT
RAW FISH
cooked meat
SALAD \& FRUIT
VEGETABLES
BAKERY \& DAlB

Hygiene \& Safety Rules
Tie up long hair
Wear an apron
Tuck tie in
Wash hands
No running
Use oven gloves when necessary
Clean practical equipment thoroughly

Cross-contamination is the transfer of harmful bacteria to food from other foods, cutting boards, utensils, etc., if they are not handled properly.


## Sensory Testing/Star Profile Charts

- 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 range of sensory qualities such as saltiness, smoothness, crispiness, flavour.
- Star profile -This type of test gets testers to describe the appearance, taste and texture of a food product on a star chart.



## Example Time Plan

| Time | Process | Hygiene \& Safety |
| :--- | :--- | :--- |
| 8:50-9:00 | Collect all equipment and <br> ingredients. Wash hands. | Is fridge $0^{\circ} \mathrm{C}-4^{\circ} \mathrm{C} ?$ |
| 9:00-9:15 | Dice onion, peppers and <br> mushrooms. | Use a green chopping board. <br> Use bridge and claw techniques. |
| 9:15-9:30 | Thread vegetables onto a <br> skewer. Make dressing. | Ensure skewer has been soaked <br> in cold water. |

Bread Production Flow Chart


Flour and Other Ingredients
Weighing

Mixing $\Leftrightarrow$ Resting
Kneading Dividing/Moulding

Proofing

$$
\text { Baking } \Leftrightarrow \text { Cooling } \Rightarrow \text { Slicing }
$$

Packaging
Weighing
Mixing $\Rightarrow$ Resting
Kneading
Dividing/Moulding
Proofing
Baking

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

## Key abbreviations: Weights and Measurements

| L | Litres |  |
| :--- | :--- | :--- |
| g | Grams |  |
| ml | millilitres | $1000 \mathrm{ml}=1$ litre |
| Kg | kilograms | 1000 g |
| Tbsp | tablespoons | 15 ml |
| Tsp | teaspoon | 5 ml |
| 1 pt | 1 pint | 568 ml |

Cams

## Automata Project

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



## 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
- Seams


| Health \& safety |
| :--- |
| Follow teacher instructions |
| Move slowly around the room do not run |
| Tie long hair back |
| Hold scissors or shears correctly when <br> walking around the room. |
| Report any injuries or breakages to the <br> teacher immediately |


| Product features |  |
| :--- | :--- |
| Consideration of a specified <br> target market | Appliqué or reverse appliqué |
| Interactive | Creative \& individual |
| Components used as <br> decoration | Features are in proportion <br> to the body shape |
| Recycled fabrics used | Accurate machine stitches |
| 3D features | Seam allowance |
| Hand embroidery | Sustainable |


| $\quad$ Key vocabulary |  |
| :--- | :--- |
| Interactive | Components or features that can be attached/detached or have different textures |
| Materials | What the product is made from? |
| Components | The parts/materials/threads needed to make a product. |
| $3 D$ features | Use of wadding to make a feature stand up or raised off the backing fabric |
| Function | What a product does, how it works and what it will be used for? Is it sensory or <br> educational or both? |
| Aesthetics | How a product or design looks . |
| Target Audience | The person or people most likely to be interested in your design or product. |
| Embroidery | Even stitch widths and lengths completed by hand sewn stitches |
| Reverse appliqué | A decorative technique whereby a fabric is sewn on the reverse of the top fabric and <br> is visible from the front |
| Sustainable | Conserving an ecological balance by avoiding the depletion of natural resources. |
| Appliqué | A decorative technique whereby one material is sewn on top of another by machine |
| Design Brief | An written outline which explains the aims and objectives and milestones of a <br> design project. |

## 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
- 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


Paper Engineering
Pop-Up mechanisms provide movement to make parts work together

| make parts work together |  |
| :--- | :--- |
| V Folds <br> Reciprocating <br> movement |  |
| Parallelograms <br> Reciprocating <br> movement |  |
| Pull Strips <br> Reciprocating <br> movement |  |

Pivots
Rotating movement



- 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 objectives and milestones of a design <br> project. |
| :--- | :--- |
| Target Audience | The person or people most likely to be interested in your design or product. |
| Function | What a product does, how it works and what it will be used for? |
| Aesthetics | How a product or design looks |
| CAD | Computer aided design |
| Rendering | The process of adding shading, colour, texture or material to a drawing. |
| Materials | What something is made from e.g. paper \& card. |
| Modelling | To present ideas to the user (target audience) or client. |
| Point of sale display | A specialised form of sales promotion found near or next to a checkout to draw the <br> customers' attention to the products, |



## ADVATICEDPUTCTUATION

Used to replace 'and' in a compound sentence:
*semi-
colon
Like an angel, the sun shone; there wasn't a cloud to be seen.

Means 'Here's my evidence' and follows a simple statement:
Majestically, the princess created a stir: she was beautifu!!
Single: Used to emphasise a description at the end of a sentence:
Happily, the sun shone - its rays reached
*dash across the whole land.
Double: Used to emphasise a description with further emphasis: The sun's rays - its burning,
radiant rays - shone across the kingdom.

ADVANCEDSENIIUICESTRUCTURESANDPAIIERITS
*litotes
*hypohora
Begin with the negative: use 'Nothing...' or 'Never...' for example A rhetorical question that is answered

| *diacope | Repeated use of the same word within/across sentences |
| :--- | :--- |
| ${ }^{*}$ isocolon | Series of phrases or sentences structured in the same way: Keep fit, keep |


| $*$ isocolon | $\begin{array}{l}\text { Series of phrases or sentences structured in the same way: Keep fit, keep } \\ \text { active, keep healthy! }\end{array}$ |
| :--- | :--- |


| *epizeuxis | The repetition of a word or phrase in immediate succession: Run, run, run! |
| :---: | :--- |
| *anaphora | Using a phrase to begin more than one clause of sentence, such as 'I Have a |

*anaphora dream...' in Martin Luther King's famous speech
*epistrophe The repetition of a word at the end of successive clauses or sentences

## 

| simile | Phrase with 'as' or 'like' to suggest similarity |
| :---: | :---: |
| metaphor | Suggesting something is something else |
| *motif | A metaphor used across a piece of writing |
| personification | Given an inanimate object human qualities like movement or emotion |
| alliteration | Repetition of consonant sounds |
| assonance | Repetition of vowel sounds |
| sibilance | Repetition of 's' sounds |
| pathetic fallacy | Where the weather or setting reflects a mood |

KGY SPEMLIESFORTHISSCHIDME OFWORK

| rhetoric | statistics | epizeuxis | interrogative (sentences) | simile |
| :--- | :--- | :--- | :--- | :--- |
| irony | anaphora | hypophora | imperatives | personification |
| anecdote | epistrophe | hyperbole | motif | alliteration |
| tripling | repetition | exclamation | metaphor | assonance |

## ENGLISH KNOWLEDGE ORGANISER: ROMANTIC POETRY

## ROMANICPOEIIY

- Popular poetry of the late $18^{\text {th }}$ and early $19^{\text {th }}$ century
- The genre was introduced and developed by William Wordsworth and Samuel Taylor-Coleridge
- Wordsworth's Lyrical Ballads (1798) is the first major collection of Romantic Poetry
- Romantic poems celebrated the natural world
- Romantics thought we could learn from nature and understand life better from its example
- Romantics were fascinated by the human mind and imagination


## 'JERUSALEM' BY WILLIAMBLAKE

- This poem was written by Blake by 1820
- It celebrates the past beauty of England by comparing it to the Holy land of Jerusalem
- It is a poem that fears the impact of industrial change on beautiful, rural England


## KEY QUOTES:

- 'dark satanic mills'
- 'England's green and pleasant land'
- 'Bring me my chariot of fire!'


## 'OZYMANDIAS' BYPB. SHIFLLAY

## KEY QUOTES:

- 'Two vast and trunkless legs'


## YEAR: 8

UNIT: 4
FAWOUSROMATIICPOAS
William Wordsworth (1770-1850)
Samuel Taylor Coleridge (1772-1834)
William Blake (1757-1827)
P.B. Shelley (1792-1822)

Lord Byron (1788-1824)
John Keats (1795-1821)

- This sonnet was written by P.B. Shelley in 1818
- Shelley wrote this poem, inspired by the discovery of the statue of Ramesses II in Egypt. He wrote it before the statue had even arrived in the British Museum in London, where you can still see it today
- Rameses was a tyrant who had immense power in Egypt; he fought many wars and built many monuments to celebrate this power
- Ozymandias is the Greek name for Ramesses II.
- 'Look on my works, ye Mighty, and despair!'


## SONGS OFTNTOCENCE ANDEXPERIENCE'BYWILLINMBLAKE

- These collections of poems were counterparts to each other: Songs of Innocence was published in 1789 and the Songs of Experience in 1794.
- Blake explored childhood innocence in his first collection and then explored the adult world of 'experience' and suffering in a time of industrialisation and war. Here are some examples.


## 'THE LAMB’ (INNOCENCE) AND ‘THE TYGER’ (EXPERIENCE)

These poems use animal symbolism to explore the innocence of childhood (The Lamb) compared to the corruption and industrialisation of the Victorian era (The Tyger)

## KEY QUOTES

The Lamb: 'Little Lamb, God bless thee!'
The Tyger: 'Tyger tiger, burning bright/In the forests of the night'
KZ SPanHISSFORTISSCHEME OFWORK

| Romanticism | ballad | symbolism | pastoral |
| :--- | :--- | :--- | :--- |
| sublime | sonnet | refrain | radical |
| beautiful | meter | enjambment | persona |
| awesome | rhyme | caesura | speaker |

‘THE CHIMNEY SWEEPER' POEMS
These poems explore the experiences of young chimney sweepers. Blake criticises how institutions like the Church would justify this child labour through religion with working be the behaviour of good boys.

## KEY QUOTES

The Chimney Sweeper (Innocence):'If all do their duty they need not fear harm The Chimney Sweeper (Experience): 'They clothed me in the clothes of death'

## Year 8 Geography Unit 2: Population and Migration

 Looksor
cover
welfite
check
che

|  | Definition |
| :---: | :---: |
| $\begin{aligned} & \frac{0}{0} \\ & \frac{1}{c} \\ & \frac{1}{\bar{D}} \end{aligned}$ | The number of births in a year per 1000 of the total population. |
|  | The number of deaths in a year per 1000 of the total population. |
|  | A model showing how populations should change over time in terms of their birth rates, death rates and total population size. |
|  | The average number of deaths of infants under 1 year of age, per 1000 live births, per year. |
|  | The average number of years a person might be expected to live. |

Year 8 Geography Unit 3: River Landscapes

Lesson 1-3


Lesson 4-6
The long profile shows the side view of the river from source to mouth. It is steepest in the upper course and more gentle in the middle and lower course. However, the river is slower in the upper course - Know why!

## Lesson 9-11

Middle course landforms are meanders and sometimes oxbow lakes.
These are bends in a river that get larger to faster moving water and erosion on the outside of the bend.


Upper Course landforms like a waterfall is formed when soft rock gets eroded quicker than hard rock and leaves a cliff Here the soft rock undercuts the hard rock until it collapses into a plunge pool beneath.

In the lower course the land is flat on each side of the river, this is where flooding can occur. This is called a floodplain. Farming takes place here and the floods deposit Nutrients which is good for crops.

The water cycle is the never ending movement of water from the air to the land, to the sea and back to the air again. This continues over and over. Ke transfers of water from these three areas are Surface Runoff, Evaporation, Precipitation and Transpiration.

## Lesson 12,14-16 HIC FLOODING EXAMPLE

Boscastle floods in 2004 devastated the village in August. A flash flood caused by natural and human reasons. The effects were environmental, social and economic.


Since then a number of hard and soft management methods have been used to prevent this happening again.

## Lesson 17-18 LIC FLOODING EXAMPLE

Bangladesh flooding in 2012 devastated large parts of this very flat country. Natural and human causes are responsible for this. However, the effects are often a lot more serious - For example people rely on crops for food. Also flood water contaminates well water and cholera spreads.
Despite being a LIC Bangladesh has installed a number of basic but often effective flood protection methods - E.g. Earth Embankments, Stilt houses, Flood shelters and basic warning systems. Each has advantages and disadvantages. Which is best? Which are given by Aid?

Some Causes of Flooding in Bangladesh


| KE |  |
| :---: | :---: |
|  | Definition |
|  | An area of land drained by a main river channel and it's tributaries. |
| $\begin{aligned} & \frac{0}{U} \\ & \frac{0}{U} \\ & \frac{0}{0} \\ & \frac{0}{0} \end{aligned}$ | Where water is moved from the Air to the Land and then to the Sea in a never ending cycle. |
|  | The side view of a river from source to mouth. Then it enters the sea. |
| ¢ ¢ O O ¢ | This is a bend in a river in the middle section usually. |
|  | Where expensive methods using concrete and steel are used to stop flooding. |
|  | Less expensive natural ways are used to cope with floods. |

$\checkmark \quad$ 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/
https://www.bbc.co.uk/bitesize/guides/zf7fr82/revision/1


## 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 $19^{\text {th }}$ Centuries?
- How should we remember the Empire?


## 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

## 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

People who originally live in a land

## Independence

Being free to run your own affairs

## 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?

$\checkmark \quad$ What and why? You will learn how the transatlantic slave trade began, how Britain came to dominate it, what it was like to be enslaved and resistance to enslavement

- Stop, think and link: Why were the British so keen to build an empire? How did the British Empire change the world? How significant was Mansa Musa
* Consequence Assessment: What was the impact of the slave trade?


## Want to explore further?

Book: Black and British: A short, essential history by David Olusoga Book: A Short History of Slavery by James Walvin
Book: David Richardson, 'The British Empire and the Atlantic Slave Trade, 1660-1807' in The Oxford History of the British Empire, Volume II - The Eighteenth Century, edited by P.J.Marshal
Websites: http://www.understandingslavery.com/ https://www.liverpoolmuseums.org.uk/history-of-slavery/europe https://www.liverpoolmuseums.org.uk/history-of-slavery/westafrica


Key Questions

- What was Africa like before the slave trade?
- What was Europe like before the slave trade?
- How \& why did the slave trade begin?
- How did people in Britain benefit from slavery?
- How were slaves caught and transported?
- What were conditions for slaves like?
- Should the slave trade be called the triangular slave trade?
- Should we use the term 'The Middle Passage'?
- How did the captured resist slavery?
- Where were slaves taken?
- What was an auction like?
- What was work on a plantation like?
- What was the legacy of slavery?


## Key events and Key People

1555: A group of Africans help the English break the monopoly that the Portuguese have over the African trade
1562-9: John Hawkins becomes the first Englishman definitely known to have traded in Africans
1672: The Royal African Company is formed in order to regulate the English slave trade
1698: The trade is opened to private traders
1760: Slave revolts in Jamaica last for several months
1783: 133 Africans are thrown overboard alive from the slave ship Zong so that the owners can claim compensation
1784: Cotton from America was first imported into Britain
1791: A slave uprising triggers the Haitian Revolution 1804: St Domingue declared the Republic of Haiti, the first independent black state outside of Africa.

## Keywords

## Captive

A person who has been taken prisoner

## Sub-Saharan Africa

## African countries south of the Saharan desert

## Merchant

Person/company who trades with foreign countries

## Commodity

A raw material or product than can be bought or sold

## Triangular

Eurocentric view of the slave trade

## Enslaved

The action of taking someone prisoner

## Colonists

Foreign inhabitant of a country

## Plantation

Estate where crops are grown e.g. sugar

## Auction

Public sale of goods/property

## Transatlantic

Crossing the Atlantic Ocean

## Yoke

Wooden stick to tie captives together


## Mathematics

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


| 10. Speed, Distance, Time | Speed = Distance $\div$ Time Distance $=$ Speed x Time Time $=$ Distance $\div$ Speed <br> Remember the correct units. | Speed $=4 \mathrm{mph}$ <br> Time $=2$ hours <br> Find the Distance. $D=S \times T=4 \times 2=8 \text { miles }$ |
| :---: | :---: | :---: |
| 11. Density, Mass, Volume | Density $=$ Mass $\div$ Volume <br> Mass $=$ Density x Volume <br> Volume $=$ Mass $\div$ Density <br> Remember the correct units. | Density $=8 \mathrm{~kg} / \mathrm{m}^{3}$ <br> Mass $=2000 \mathrm{~g}$ <br> Find the Volume. $V=M \div D=2 \div 8=0.25 \mathrm{~m}^{3}$ |
| 12. Pressure, Force, Area | Pressure $=$ Force $\div$ Area <br> Force $=$ Pressure $\mathbf{x}$ Area <br> Area $=$ Force $\div$ Pressure <br> Remember the correct units. | Pressure $=10$ Pascals <br> Area $=6 \mathrm{~cm}^{2}$ <br> Find the Force $F=P \times A=10 \times 6=60 \mathrm{~N}$ |
| 13. DistanceTime Graphs | You can find the speed from the gradient of the line (Distance $\div$ Time) <br> The steeper the line, the quicker the speed. A horizontal line means the object is not moving (stationary). |  |


| Topic/Skill | Definition/Tips | Example |
| :---: | :---: | :---: |
| 1. Types of Angles | Acute angles are less than $90^{\circ}$. <br> Right angles are exactly $90^{\circ}$. <br> Obtuse angles are greater than $90^{\circ}$ but less than $180^{\circ}$. <br> Reflex angles are greater than $180^{\circ}$ but less than $360^{\circ}$. |  |
| 2. Angle Notation | Can use one lower-case letters, eg. $\theta$ or $x$ <br> Can use three upper-case letters, eg. $B A C$ |  |
| 3. Angles at a Point | Angles around a point add up to $360{ }^{\circ}$. |  |
| 4. Angles on a Straight Line | Angles around a point on a straight line add up to $180^{\circ}$. |  |
| 5. Vertically Opposite Angles | Vertically opposite angles are equal. | $\frac{x / y}{y / x}$ |
| 6. Alternate Angles | Alternate angles are equal. <br> They look like Z angles, but never say this in the exam. |  |
| 7. Corresponding Angles | Corresponding angles are equal. They look like F angles, but never say this in the exam. |  |
| 8. Co-Interior Angles | Co-Interior angles add up to $180^{\circ}$. They look like C angles, but never say this in the exam. |  |
| 9. Angles in a Triangle | Angles in a triangle add up to $180^{\circ}$. |  |


| 10. Types of Triangles | Right Angle Triangles have a $\mathbf{9 0}^{\circ}$ angle in. Isosceles Triangles have 2 equal sides and 2 equal base angles. <br> Equilateral Triangles have $\mathbf{3}$ equal sides and 3 equal angles ( $60^{\circ}$ ). <br> Scalene Triangles have different sides and different angles. <br> Base angles in an isosceles triangle are equal. |  |
| :---: | :---: | :---: |
| 11. Angles in a Quadrilateral | Angles in a quadrilateral add up to $360{ }^{\circ}$. |  |
| 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 7-sided = Heptagon/Septagon 8-sided \(=\) Octagon 9-sided = Nonagon 10-sided \(=\) Decagon``` |  |
| 15. Sum of Interior Angles | $(n-2) \times 180$ <br> where n is the number of sides. | Sum of Interior Angles in a Decagon $=$ $(10-2) \times 180=1440^{\circ}$ |
| 16. Size of Interior Angle in a Regular Polygon | $\frac{(n-2) \times 180}{n}$ <br> You can also use the formula: 180 - Size of Exterior Angle | Size of Interior Angle in a Regular Pentagon $=$ $\frac{(5-2) \times 180}{5}=108^{\circ}$ |
| 17. Size of Exterior Angle in a Regular Polygon | $\frac{360}{n}$ <br> You can also use the formula: 180 - Size of Interior Angle | Size of Exterior Angle in a Regular Octagon $=$ $\frac{360}{8}=45^{\circ}$ |



Stage 8: Calculating with Percentages, Decimals, Fractions

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


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

## Stage 8: Equations

| Topic/Skill | Definition/Tips | Example |
| :---: | :---: | :---: |
| 1. Solve | To find the answer/value of something <br> Use inverse operations on both sides of the equation (balancing method) until you find the value for the letter. | Solve $2 x-3=7$ <br> Add 3 on both sides $2 x=10$ <br> Divide by 2 on both sides $x=5$ <br> Solve $3 x+1=5 x-3$ <br> Subtract 3x (the smallest amount of x ) from both sides $1=2 x-3$ <br> Add 3 on both sides $4=2 x$ <br> 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 $y=\frac{2 x-1}{z}$ <br> Multiply both sides by z $y z=2 x-1$ <br> Add 1 to both sides $y z+1=2 x$ <br> Divide by 2 on both sides $\frac{y z+1}{2}=x$ <br> 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. $C=3 N+5$ <br> Where $\mathrm{N}=$ number of windows and $\mathrm{C}=$ cost |
| 5. Substitution | Replace letters with numbers. <br> Be careful of $5 x^{2}$. You need to square first, then multiply by 5 . | $a=3, b=2$ and $c=5$. Find: <br> 1. $2 a=2 \times 3=6$ <br> 2. $3 a-2 b=3 \times 3-2 \times 2=5$ <br> 3. $7 b^{2}-5=7 \times 2^{2}-5=23$ |

# Modern Foreign Languages 

## Year 8 French

## 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 |
| dans une ville | in a town |

## Rooms in a house

chez moi in my home
la chambre the bedroom
la cuisine the kithcen
le jardin the garden
la salle a manger the dining
room
la salle de bains the bathroom
le salon the living 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 |


| Giving an opinion <br> je pense que <br> à mon avis | I think that <br> 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 <br> laugh <br> it makes me <br> cry |
| ça me fait pleurer |  |


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


| 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 |
| la météo | the weather |
| 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 $\quad$ I send |
| Je mets à jour $\quad$ I update |

Je joue à des jeux en ligne
I play games on line

## Time phrases: When?

| le weekend <br> le matin <br> l'après midi | at the weekend <br> in the morning <br> in the afternoon <br> le soir |
| :--- | :--- |
| in the evening/at <br> night |  |
| samedi matinon Saturday <br> morning |  |
| 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 |


| Adjectives  <br> ennuyeux  <br> rasant  <br> barbant boring <br> passionnant boring <br> amusant boring <br> confortable exciting <br> douillet fun/funny <br> assez bien comfortable <br> chouette cosy <br> effrayant quite good <br> émouvant excellent <br> passionnant frightening <br> pratique moving$\quad$exciting <br> practical |
| :--- | :--- |

## Year 8 French Knowledge

## Organiser HT4

| Intensifiers |  |
| :---: | :---: |
| vraiment | really |
| très | very |
| assez | quite |
| trop | too |
| un peu | a bit |
| Giving an opinion |  |
| 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 agree | I don't |

\(\left.$$
\begin{array}{ll}\begin{array}{l}\text { Relationships } \\
\text { On s'amuse }\end{array}
$$ \& We have fun <br>
On se chamaille \quad We squabble <br>
On se confie des secrets <br>

We tell each other\end{array}\right\}\)| secrets | We tell each |
| :--- | :--- |
| On se dit | other |
| On se dispute We argue <br> On s'entend We get on <br> On se fâche We get angry |  |


| Mon caractère |  |
| :--- | :--- |
| 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 <br> 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 |
| sympa | nice |


| 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 |


| Je vais danser <br> danse <br> Ça va être <br> be | I'm going to |
| :--- | :--- |


| Verbes essentiels | Key verbs |
| :--- | :--- |
| Je vais | I am |
| Tu vas | going $/$ go <br> You go/You <br> are going |
| Il/elle va | He/She is <br>  <br>  <br> going/He/S <br> On va <br> he goes <br> We are <br> 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 <br> Normalement Normally <br> D'habitude Usually <br> Je vais I go <br> Je regarde I watch <br> Je danse I dance <br> C'est It is <br>   <br> Using the future tense  <br> Ce weekend This weekend <br> Cet été This summer <br> Je vais aller I'm going to go <br> Je vais regarder I'm going to <br> watch   |  |


| 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 |  |
|  |  |
| 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? | What do you like to eat? |
| :--- | :--- |
| Ich esse gern | I like eating |
| Ich esse nicht gern | I don't like eating |
| Was trinkst du gern? | What do you like to drink? |
| Ich trinke gern | I like drinking |
| Ich trinke nicht gern | I don't like drinking |
| Brot. | bread. |
| Joghurt. | yoghurt. |
| Käse. | cheese. |
| Kuchen. | cake. |
| Marmelade. | jam. |
| Schinken. | ham. |
| denn es ist süß. | because it is sweet. |
| ,weil es schmackhaft ist. | because it is tasty. |
| Was hast du gegessen? | What did you eat? |
| Ich habe ...gegessen | Iate |
| Was hast du getrunken? | What did you drink? |
| Ich habe ...getrunken | Idrank |
| Ich fand es lecker | I found it delicious |
| Es war eklig | It was disgusting |
|  |  |


| Wo gehst du einkaufen? | Where do you go shopping? |
| :---: | :---: |
| Ich gehe gern einkaufen | I like going shopping |
| Normalerweise gehe ich .. | Normally I go |
| zum Modegeschäft | to the clothes shop |
| zum Sportgeschäft | to the sports shop |
| zum Kaufhaus | to the department store |
| zum Musikladen | to the music shop |
| zur Buchhandlung | to the book shop |
| zur Konditorei | to the cake shop |
| zur Drogerie | to the chemist |
| zur Metzgerei | to the butcher's |
| zur Bäckerei | to the bakery |
| Was hast du letzte Woche gemacht? | What did you do last week? |
| Letzte Woche habe ich | Last week I got pocket money |
| Taschengeld bekommen |  |
| Ich bin ich in die Stadt gegangen. | I went to town |
| Was hast du gekauft? | What did you buy? |
| Ich habe .... gekauft | I bought |



## Year 8 German Knowledge Organisers

| Fernsehsendungen | TV programmes |
| :--- | :--- |
| der Film(-e) | film |
| der Dokumentarfilm(-e) | documentary |
| der Zeichentrickfilm(-e) | cartoon <br> der Krimi(-s) |
| diective story |  |
| die Mindersendung(-en) | children's <br> programme |
| die Quiksendung(-en) | music programme |
| die Sportsendung(-en) | quiz <br> sports programme <br> die Tiersendung(-en) |
| animal programme |  |
| die Komödie(-n) | comedy |
| die Seifenoper(-n) | soap opera <br> die Nachrichten |
| the news |  |


| Skater | Skateboarders |
| :--- | :--- |
| Wo wohnt er? | Where does he live? |
| Er wohnt in ... | He lives in ... |
| Wie alt ist er? | How old is he? |
| Er ist (siebzehn) | He is (17). |
| Jahre alt. |  |
| müssen | must |
| Wie oft muss er | How often does he |
| trainieren? | have to train? |
| Er muss jeden Tag | He has to train |
| trainieren. | every day. |
| Was macht er am | What does he do at |
| Wochenende? | the weekend? |
| Am Wochenende | At the weekend he |
| muss er zu | has to go to |
| Skateshows | skateboarding |
| fahren. | shows. |
| Was braucht er zum | What does he need |
| Skaten? | for skateboarding? |
|  |  |

## Siehst du gern (Filme)? Do you like watching

 (films)?Ja, ich sehe gern (Filme). Yes, I like watching films.
Nein, ich sehe nicht so No, I don't really like gern (Filme).
Ich sehe lieber (Seifenopern).
Was ist deine
Lieblingssendung?
Was kommt um zehn Uhr?
Wann beginnt / endet der Film? watching (films).
I prefer watching (soaps).
What is your favourite programme?
What's on at ten o'clock?
When does the film start / finish?
Was für eine Sendung ist das?
Das ist eine Komödie.
Was hast du gestern Abend gesehen?
Ich habe ... gesehen.
Ich habe nichts gesehen.

| Das war ... lustig. spannend. doof. zu lang. toll. interessant. langweilig. | It was ... <br> funny. exciting. stupid. too long. great. interesting. boring. |
| :---: | :---: |
| Ein Ausflug | A trip |
| Wir haben im Bus ... | On the bus we |
| Musik gehört. | listened to music. |
| Bücher gelesen. | read books. |
| SMS geschickt. geschlafen. | sent text messages. slept. |
| Schwarzwälder Kirschtorte gegessen. | ate Black Forest gateau. |
| Chips gegessen. | ate crisps. |
| Limo getrunken. | drank lemonade. |
| Wir sind ... mit dem Zug gefahren. | We ... travelled by train. |
| mit dem Bus gefahren. | travelled by bus. |
| schwimmen gegangen. | went swimming. |
| wandern gegangen. | went hiking. |
| nach Hause gefahren. | went home. |



## Year 8 Music - Composer's Logbook (melody)

| KEYWDRDS |
| :---: |
| 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 |
| 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 different parts 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 ( $\mathrm{T}-\mathrm{s}-\mathrm{T}-\mathrm{T}-\mathrm{T}-\mathrm{s}-\mathrm{T}$ ). |
| 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 down. |



Oh Suzana in C major pentatonic


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'.

## 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 $\psi$ the law related to animals Understand what is Battery farming $\psi$ the law on battery farming

Appreciate why animals are used in research


Personall Social Health Education

## 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 $\downarrow$ AIDS



## Y8: Unit 1 Judaism

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.


## Y8: Unit 2 Hinduism

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.

## Curriculum <br> Organiser

## Philosophy

## 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.

## Lesson 9

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?

[^0]

Science

## 8C2 Metals

## Properties of metals and non-metals

| Property | Metals | Non-metals |
| :---: | :---: | :---: |
| Appearance | Shiny | Dull |
| State at room <br> temp | Solid (except mercury) | Half are solids, half are gases, one <br> is liquid (bromine) |
| Density | High | Low |
| Strength | Strong | Weak |
| Malleable or <br> brittle | Malleable (can bend without <br> breaking) | Brittle (will shatter when |
| hammered) |  |  |


| Metal |  | Reaction with <br> AIR | Reaction with <br> WATER | Reaction with ACIDS |
| :--- | :---: | :---: | :---: | :---: | :---: |

## 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 $\rightarrow$ Sodium Carbonate + Zinc
. Magnesium + Iron Oxide $\rightarrow$ Magnesium Oxide + Iron

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

## How metals are extracted


dvantages of Recycling

Carbon dioxide is a greenhouse gas. Greenhouse gases cause global warming.
Electricity for electrolysis is expensive and usually comes from fossil fuels.

Force Diagram
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.
A boat floating

A book on a desk


## 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
2. 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?
$100 \mathrm{~N}-60 \mathrm{~N}=40 \mathrm{~N}$ (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.
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.

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

## 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

5 N


For example, the resultant force acting on this object is $5 \mathrm{~N}-5 \mathrm{~N}=0 \mathrm{~N}$

$$
\begin{gathered}
\text { Speed }=\frac{\text { Distance }}{\text { Time }} \\
\text { Weight }=\text { Mass } \times G F S \\
F=m \times a
\end{gathered}
$$

| 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 graph

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.




## $\mathrm{F}=$ ma practical

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.



```
40. mph)}12\textrm{m}>24\textrm{m
$50\textrm{mph}
*)
```


## 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 | Weight |
| :---: | :---: |
| The amount of matter in an object | The force acting on an object, due to gravity  <br> Never changes Changes depending on the strength of <br> gravity <br> Measured in kg Measured in $\mathbf{N}$ |

Newton's $1^{\text {st }}$ Law: Motion will not change unless there is a balanced force acting on an object.
Newton's $2^{\text {nd }}$ Law: The bigger the size of the resultant 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.

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.

| Fungi can also <br> cause disease, by <br> growing on living <br> tissue (for example, <br> athlete's foot is <br> caused by a <br> fungus). |
| :--- |

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).
ONA or RNA


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.

The non-specific defence systems of the human body against pathogens include the skin, nose, trachea and bronchi \& stomach.

First Lines of Defence


## The specific defence system:

 White blood cells help to defend against pathogens by: phagocytosis, antibody production \& antitoxin production.


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.
 of bathogen is metroduced noth
your boofy



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.

 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


[^0]:    *Following these 9 lessons pupils will be assessed and feedback will be given in exercise books.

