## Knowledge Organiser

## Booklet Year 8 Term 3



Our working memories can only store a limited amount of information, whereas our long term memories can store limitless information. To learn successfully, we need to store core knowledge into our long term memories, so we can retrieve it when we need it.

For instance if you are at work or in the shops and need to work out a $25 \%$ discount, you cant memorise $25 \%$ of every number, so you need to be able to quickly recall the method for calculating a percentage. Committing core knowledge to our long-term memories is a life-hack. It makes thinking about difficult things easier.

Using a knowledge organiser with regular retrieval activities is a way for you to store core knowledge \& subject specific words, into your long term memory so it is there when you need it.


## Contents


#### Abstract

Clicking on the subjects below will take you directly to the knowledge organisers for each subject. These are to support learning that has taken place this past term. Use these to help reinforce the key knowledge. Use some of the strategies explained in the introduction to help you retain this important information.


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## D) OnO OH

Make sure you have access to a computer at home (If you don't please make pastoral staff aware or email langley.homelearning@taw.org.uk)

Download Microsoft Teams on both your phone and computer. (If you don't know how to do this please ask a member of staff or do this in your next computing lesson)

Spend at least 2 hours a week using teams EVERY WEEK. (Engagement in teams can be tracked and monitored). You need to be accessing each of your class teams and recapping on the previous learning or completing additional tasks set by your class teacher.

If you have any issues with teams (e.g. login problems or missing classes etc then please email langley.homelearning@taw.org.uk)

Teams is a tool to support ongoing learning and should only be used for educational purposes.

|  | LOOK, COVER, WRITE, CHECK | DEFENTIONS TO KEY WORDS | FLASHCARDS | DUAL CODENG |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { M } \\ & 11 \\ & 6 \\ & 6 \\ & \hline \end{aligned}$ | Look at \& study an area of your knowledge organiser | Write down the key words \& definitions | Write key words, dates/formulae, equations/quotes on one side \& answers on the other | Draw pictures/diagrams/ cartoon strips |
| $$ | Cover up your knowledge organiser and write everything you remember | Cover up the definitions. How many can you remember? Repeat. | Include pictures or diagrams if it helps. Read through them. | Label your pictures/diagrams/ cartoon strips |
| MMC-- | Check. Correct mistakes in green and add anything you missed. Repeat | Check. Correct mistakes in green pen. Which ones do you find hard to remember? | Test yourself and get someone to test you. | Explain out loud to yourself or family/friend what your images show |
|  | SELF GUIRZANG | MINDMAPS | PALRED RETRIEVAL | SPEAK, COVER, WRITE, CHECK |
|  | Use your knowledge organiser to create quiz questions. | Create a mindmap of everything you can remember from your knowledge organiser | Give a family member/friend the knowledge organiser to hold | Read out loud the information from the knowledge organiser several times. |
|  | Write down the answers to your quiz | Check your knowledge organiser \& use a green pen to make any corrections. | Get them to test you using the knowledge organiser | Cover up your knowledge organiser and write everything you remember |
| $\begin{aligned} & m \\ & 11 \\ & 1 \\ & 6 \\ & 6 \end{aligned}$ | Keep self-quizzing until you get all the answers correct X V | Add additional information to your mindmap or make connections to other knowledge | Write down your answers to their questions | Check. Correct mistakes in green and add anything you missed. Repear. |

# Retrieval Placemat 

Look at your knowledge organiser. Now cover it up and write down Key vocabulary \& definitons from memory:

First time: Look. Second time: Look. Third time: Look.<br>Cover. State 3 facts<br>Cover. State 3 facts



Look at the knowledge organiser again. Now cover it up and without looking, explain a concept or idea in your own words

Re-read your answer above. Look at the knowledge organiser again. Now cover it up and improve on your previous explanation in green pen.

# Retrieval Relay 

Look at your knowledge organiser. Now cover it up.

First time: Write down<br>everything you can<br>remember

Second time: Look.<br>Cover. Write down<br>everything you can<br>remember

Third time: Look.
Cover. Write down
everything you can
remember

Write down everything here that you didn't remember:

# Vocabulary focus 1 

## Look at your knowledge organiser. Select a key word and write it here:

Write a definition of the key word in your own words - not the same as the one on the knowledge organiser:

Write a sentence with the key word in it:

Create a question where the key word is the answer:

What other words are connected to this key word?

Draw a picture or diagram to help you remember this key word:

# Vocabulary focus 2 

## Definition:

## Characteristics:

Key word:

Examples:
Non-examples:

# What should my knowledge organiser homework look like? 



# What should my knowledge organiser homework look like? 

Homework activity written and underlined


Stages of homework
activity as subtitles

Art

## Year 8: Unit 5: Architecture

## Architecture

Threshold Concept (TC28) - Understand the main components of an artist research page.


## Keywords

Architecture, Architect, Facade La Sagrada Familia, Antoni Gaudi, Cubism, George Braque, Pablo Picasso

Threshold Concept (TC29) - Knowledge and understanding of Antoni Gaudi. Cubism
Threshold Concept (TC30) - Knowledge and understanding of Cubism.
Threshold Concept (TC31) - Understand how collage, using photos, can be used to inform a final art outcome.

## Bronze

... understand what an artist research page is. ... understand how to cut out appropriate images.
... select basic information and write this on the page.
... recognise Antoni Gaudi's art style.
... understand what Cubism is.

## Formal Elements

 of ArtColour, Line, Shape, Form, Tone, Texture Pattern

Studying the work of different artists and completing an artists research page helps to give you ideas for your own work perhaps through similar subject matter, theme or style.

> Cubism was a revolutionary new approach to representing reality. It was invented around 1907 by the artists Pablo Picasso and Georges Braque.
'The word 'Cubism' came from a comment made by an art Critic who described the appearance of George Barques paintings as looking like cubes.


Lesson Objective
To learn about Antoni Gaudi and
produce an A4 research page on the Artist.

background

The Weeping Woman (1937) Pablo Picasso

This portrait appears fragmented but contains different angles in the same image.


Antoni Gaudi

Gaudi designed patterns and styles of architecture.


View of school architecture.


## Materials

 GraphitePencil Colouring pencil Acrylic paint

Rule of Thirds
create a final piece based on Gaudi's designs but with a Cubist influence.


How to cut neatly using scissors Watch from 1:33 to 2:50


## Year 8: Unit 6: Architecture

## Architecture

TC31 - Understand how collage, using photos, can be used to inform a final outcome.
TC32 - Understand that the internet should not always be used as source material.
TC33- Understand that artist's work of past and present can be used to influence a final outcome.
TC23 - Understand that art can be created using mixed media.

What makes a good image?

## Rule of thirds



The Rule of Thirds is the process of dividing an image into thirds, using two horizontal and two vertical lines.

This imaginary grid has nine parts with four intersection points.
When you position the most important elements of your image at these intersection points, you produce a much more natural image.

## Rule of Thirds

If the image is
in the centre of
the itcture it
doesn't atways
make it
interesting

Media is the material and tools used by an artist, composer or designer to create a work of art, for example, "pen and ink" where the pen is the tool and the ink is the material.

## Bronze

... understand what a 'collage' is.
... understand how to cut out appropriate images.

| Materials |
| :---: |
| Graphite pencil |
| Colouring Pencil |
| Fineliners |
| Acrylic Paint |

## Formal Elements

of Art
Colour, Line, Shape, Form, Tone, Texture Pattern

Mixed media is a word (term) used to describe artworks
composed from a combination (group) of different media or
materials.

Collage describes both the technique and the resulting work of art in which pieces of paper, photographs, and fabric etc are arranged and stuck down onto a surface.

You could take your own photograph on our phone or with a camera rather than rely on someone else's image from the internet


Rule of Thirds


Cut out the shapes that you find interesting and arrange them on your grid which highlights the 'Rule of Thirds'.


SCAN ME
Colouring Pencil
Techniques

## IIHLHilll

Studying the work of different artists helps to give you ideas for your own work. Through similar subject matter, theme or style your chosen artist will in some way have an influence on your final piece of work.


## Computing

## Look

## Cover



Read through your knowledge organiser. Next, cover it up or put it away and try tho write down as many of the key facts that you can remember. Use your knowledge organiser to check the fact you have written down. Correct any you may have got wrong.

Computing Year 8 Unit:
Mobile App Development

Threshold concept-

- Identify when a problem needs to be broken down
- Identify when there are issues with code
- Use block-based programming to a basic level


## Keyword Definition

| Sequence | Placing a set of instructions in an order |
| :--- | :--- |
| Event | An action that occurs as a result of the user |
| GUI | A visual way of interacting with a computer |
| Programming | The process or activity of writing computer <br> programs. |
| Decomposition | When we break a problem or task down into <br> smaller parts to make it easier to tackle |
| Abstraction | The process of filtering out - ignoring - the <br> characteristics of patterns that we don't <br> need in order to concentrate on those that |
| Algorithmic thinking | A way of getting to a solution through the <br> clear definition of the steps needed |
| Variables | Value that can change, depending on condi- <br> tions or on information passed to the pro- <br> gram |
| Selection | Selection is a decision or question. <br> Operators <br> +, -, *, / =, =>, = |



## USER INPUT

Text boxes - allowing the user to input a string.

Checkboxes - allowing for the user to indicate a yes or no response.

Button - linked to an event that will capture and process the data when it is clicked

## CETTEKT

getText ("id") is a built-in subroutine that collects the text entered into a textbox; "id" is to be replaced with the name given to the text box.

## cyevt mayples

You can use an event handler to determine when to collect the data and what to do with it once it has been collected and linked with a variable.
gisvent(r"ligin", v"click", function) vaz usernane - getiexe(v"usernane")
+

## SELECTIOM - BOOLGAM LOEIC

 (IFIELSEJELIF)Selection is the process of making a decision based on a condition. Selection allows you to add more avenues and routes to your coding.

[^0]
## Design and Technology



You can make your own questions. This process takes a lot of time, but if you create a study group you can each create a few questions and trade. However it is important that you write what Key facts or knowledge you expect to see in any answer.

- How people's physical, intellectual, emotional and social well-being are linked.
- To recognise what is health and well-being and what influences it.

What are P.I.E.S.:
\(\left.\begin{array}{l}Physical <br>
Intellectual <br>
Emotional <br>

Social\end{array}\right\}\)| All of these make up the |
| :--- |
| definition to what is |
| health and well-being. |



As we move through the life stages our P.I.E.S. develop.
We focus on the three primary life stages:

- $\quad$ Childhood (0-18)
- Adulthood (18-65)
- $\quad$ Old Age (65+)

Using this information you should be able to:

- Define what is health and well-being
- Describe the different life stages.

You should be able to use this knowledge to describe how humans develop physically, intellectually, emotionally and socially across the different life stages.


The five food groups!

In order to have a healthy balanced diet, you must consume the correct amount of the five food groups. Having a healthy balanced diet can affect your growth and development across all three life stages. A mothers diet can even influence her unborn child's growth and development!



Stress gets to us all. However, there are plenty of ways we can deal with stress.


There are numerous ways in which we can deal with stress. Some of the most effective are either listening to music or spending time in nature. This helps relax the body and in turn can relax the mind, helping to cope with stress.

## Impact of life events on P.I.E.S.

Often life events can have an impact on our health and wellbeing. This means that certain life events can impact on your physical, intellectual, emotional and social health. There are two types of life events, expected and unexpected.

These are some examples of different life events that occur across the life stages;

First day of school
First words
First job
Making a friend

Buying a house Retiring
Getting married Having a child

Unit guiding question: What is the purpose of a mechanism?

The threshold concept that is truly essential to enable you to access future learning is ...
Mechanisms convert one type of motion into another.

Understand different types of motion and what mechanisms are used to convert them
from one to another.
Understanding that there are inputs processes and outputs for every mechanical system.


There are 4 types of motion


Rotary motion A person cartwheeling

cartwheel

Reciprocating motion The weightififer lifts the weights up and lowers them. He does work in both directions.


Oscillating motion The footballer's leg swings back and forth. Only the first hall of the action performs work.


Levers are simple machines. There are 3 classes of lever determined by where the load, effort and fulcrum are positioned.


Some mechanisms are combinations of levers linked together. These are called linkages. They convert one type of motion into another.


Gears are wheels with teeth around the outside. When several wheels are interlocked, they can transfer motion from one place to another and can change the speed and direction of the output.


Cam mechanisms have two main parts: a cam - attached to a crankshaft, which rotates.
a follower - touches the cam and follows the shape, moving up and down



Systems diagram for a bike as a mechanism

Pulley and belt systems use the belt to transmit motion and power from the driver shaft to the driven shaft. The pulley wheels have grooves to keep the band or belt in place.

Metals.
Learn about Ferrous and
non ferrous metals and
their source.

## Stick Figure.

Learn to draw accurately and in proportion.
Understand Anthropometrics


Brazing.
Clean metal with Emery Cloth. Using Flux \& Brazing alloy to joint the pieces together

## Form metal to 'Template'

Hold 'work' in vice and 'form' into shape by bending.
CHECK against your template to see if it is 'formed' accurately


## Objectives:

To work independently from instructions you have written

## Research.

Find suitable sporting action
figure. Consider including
sporting equipment to the design


## Material Preparation

File sharp edges from all ends of the material. N.B. Cuts \& Scratches will cause infection! Yuk!


## Develop research into a stick figure design.

Trace a skeleton on picture. Convert skeleton from 3D to 2D. Transform 2D skeleton into accurate full size figure using the dimensions given.


Modelling.
Using 3 different colours of card, make a card model. Arrange pieces and develop a final design - glue pieces in position to create the Template of your design.


## Material Requirements

Add the total length of each colour to find out EXACTLY how long each of the THREE pieces needs to be. DON'T FORGET to add 2 cm for the 'stand peg'

## Essential Knowledge

- You will learn how to analyse a design brief
- You will learn about anthropometrics and learn about the importance of proportion and the sizes of the human body
- You will learn how to analyse pictures and discuss them.
- You will learn about metals and their properties.
- You will learn about using accurate measurements
- You will develop your design skills and learn the importance of annotation.
- You will learn how to work with and shape metal as well as how to join metal
- You will evaluate the work of others and your own work


## Drama



Create a flash card with all the key facts you want to learn (this can be drawn in your book). On the next page try writing down as many facts or as much of the knowledge as you can. If you find you are getting certain facts wrong then these are where you need to focus and relearn.

Noughts and Crosses -

## Malorie Blackman

The script provides essential information to the actor and technical department. It suggests stage directions, pauses and the style of emotion the character should move or speak in. For the technical team, it prompts any lighting, sound or stage direction that is needed for the scene.

## A. Storyline

"Noughts and Crosses" is a book about a world where black people (Crosses) and white people (Noughts) are separated and don't get along because of their skin color. The story follows two teens, Callum and Sephy, who are from different sides of this divide, but they fall in love with each other
anyway. The book is about love and racism and how they are related. It is set in a world where things are not equal and some people have more power than others.

Director is responsible for the practical and creative interpretation of a script. They oversee the whole production.

## B. Stage Positions



| C. Characters |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Callum McGregor <br> A white "Nought" and the protagonist of the story. He is intelligent, brave, and determined, but also struggles with feelings of anger and frustration about the oppressive society he lives in. | Sephy Hadley <br> A black "Cross" and the daughter of a powerful politician. She is privileged, but also kind and compassionate, and is drawn to Callum despite the racial divide that separates them. | Jasmine Hadley <br> Sephy's younger sister, who is passionate and outspoken about the injustices of their society. | Ryan McGregor  <br> Callum's older brother, Se <br> who is a political activist po <br> and outspoken critic of the po <br> racist and apartheid-like co <br> system they live in. for | Kamal Hadley y's father, who is a rful and influential tician. He is deeply icted about his love is daughter and his loyalty to his community. | Meggie M <br> Callum's who is supportive fiercely pro her fa | regor <br> her, <br> d, <br> and <br> tive of | Jude McGregor <br> Callum's grandfather, who is wise and has a deep understanding of the racial divide and the challenges his family faces. |
| D. Types of Theatre |  |  | E. Vocal | F. Physical |  | G. Performance Skills |  |
| In The Round - the audience sit around the stage on all sides. Performers enter and exit through the audience on walkways | into the audience, who sit <br> on three sides. There is a <br> back wall that can be used <br> for hanging backdrops and <br> large scenery. Proscenium Arch- <br> describes the frame that <br> surrounds the stage. All <br> the audience face the <br> same way. The stage is <br> raised. The seating is often <br> tiered. |  | Types of volume: Whisper, quiet, talking, loud, shouting. <br> Types of Pitch: Low, medium, <br> high Pause: Stillness in a <br> scene or dialogue <br> Pace: Speed of dialogue <br> Tone: Emotionally influenced dialogue <br> Emphasis: Putting importance on a word | Gestures: Using movement to express emotion or direction <br> Facial expressions: Used to show emotion <br> Body language: Use to show the character profile/emotion <br> Levels: Used to show status/hierarchy <br> Gait: Character walk <br> Eye contact: Between actors/audience <br> Proxemics: Space between actors/audience |  | Cross-cutting: To show contrast on stage. <br> Freeze Frame: To highlight a key moment. <br> Narration: To give the audience information about the story <br> Thought track: To give the audience information about a character <br> Direct address/aside: <br> Speaking directly to the audience out of the scene |  |

## English



## Threshold Concept- Year 8-Poetry from Diverse Culfures:

TC1 - Understanding texts
TC2 - Demonstrate an appreciation of the writer's craft through analysis and critically evaluative comments.

A step-by-step guide to understanding a poem you've never seen before.


Unique features of poetry.
See the below features of poetry. Some features are more unique to poetry, so make sure you attempt to identify and analyse the poets' use of these, as you'll do this less often than with features that are used in all types of literature (like metaphors, for example.)


Push yourself by explaining the poet's message.
The writer's uses this to... The poet's message seems to be...
The poet's message is what the writer is trying to say about their topic choice. All the lines and features they've chosen link to this one message.

Once you've identified the message, yol should mention this in all of your explangtions of quotations and techniques!

Look at the example here of how poet's messages work.

Enjoyed the poetry from this half term? Click this link for some more poems from diverse culturest

Poems From Other Cultures \& Traditions Revision World


## Threshold Concept- Year 8- Writing accurately.

TC6 - Organise information and ideas, using structural and grammatical features to support coherence and cohesion of texts
TC7 - Use a range of sentence structures for clarity, purpose and effect, with accurate punctuation and spelling.

Paragraphing and cohesion when writing non-fiction and creatively.

When marking your work, your teacher will firstly look at the paragraphing choices you have made.
Being experimental with paragraphing (i.e. using one word/ sentence paragraphs occasionally for effect) can really help to improve the structure of your written pieces.
When structuring your work, ask yourself these questions:
-Do I paragraph my work and vary my paragraphs, or do I play it too safe?
-Do I use words that link sentences and paragraphs together, or do I repeat words like "The" and "I"
too often in my writing?

## A range of sentence structures- opening with different words!

Starting sentences with linking words is great, but you can also improve your sentence structure choices by using lots of different


Accurate intermediate punctuation.
We should be using full stops, capital letters and commas accurately, but to push further we should be consistent at using the below punctuation, too.

| Name | Looks like: | How do we use it? <br> Exclamation mark$\quad!$ |
| :--- | :---: | :--- |
| -To add emotion to a sentence <br> -To show a sentence is a command. |  |  |
| Question mark | $?$ | -To show when there is an end of a question. |
| Ellipses | $\ldots$ | -To create an additional pause. |
| Speech marks | " " | -To indicate when something is being said. |
| Brackets | ( ) | -To show part of a sentence is extra information |
| Apostrophes | 1 | -To show where a letter has gone missing when two words <br> have joined (i.e. don't) <br> -To show something owns something else. (i.e. The cat's fur). |

When writing, ask yourself these questions:
-Do l know how to use all of these punctuation pieces confidently and accurately?
-Do I use all of this punctuation regularly in my work.
not
forgetting any piece?


## Literacy

Make sure you are regularly testing your knowledge using the resources provided by the school on platforms such as Sparx, Educake and Linguascope. You will have been issued with user names and passwords to access your accounts.

## Literacy Knowledge Organiser

| KeyPunctuation |  |
| :---: | :---: |
| Full Stop <br> Full stops are used at the end of a statement. | Question Mark <br> Use these to indicate a question is being asked. |
| Comma <br> Use commas in lists and to separate extra information. | Apostrophe <br> Use apostrophes to show possession or missing letters. |
| Colon <br> Use this to introduce a list or to join two parts of a sentence. | Semi-colon <br> Use this to join two closely related, equally important parts of a sentence. |
| Exclamation <br> Mark <br> Use this to emphasise strong feelngs such as shock, surprise or anger. | Brackets <br> Use these to add extra, non-essential, information to a sentence. |

## Spelling Strategies


$\left.\left.\begin{array}{|l|l|}\hline \begin{array}{l}\text { Parts of a sentence: subject, verb, } \\ \text { object. }\end{array} & \begin{array}{l}\text { Examples: Every sentence must have a } \\ \text { subject and verb. }\end{array} \\ \hline \begin{array}{l}\text { subject: the person or thing carrying out } \\ \text { the action. } \\ \text { object: the person or thing that receives } \\ \text { the action of the verb. }\end{array} & \text { John ran to the shops. } \\ \hline \begin{array}{l}\text { Active Voice: When the subject of a } \\ \text { sentence performs the verb's action, we sung by the soprano. } \\ \text { say that the sentence is in the active } \\ \text { voice. }\end{array} & \begin{array}{l}\text { Passive voice: When the subject is } \\ \text { acted on by the verb. The passive voice } \\ \text { is always constructed with a different } \\ \text { form of to be plus the verb's past } \\ \text { participle and contains by. }\end{array} \\ \hline \text { Arthur read an interesting novel. } & \begin{array}{l}\text { An interesting novel was read by } \\ \text { Arthur. }\end{array} \\ \hline \begin{array}{l}\text { The progressive tense: a } \\ \text { verb tense used to show an ongoing } \\ \text { action in progress at some point in time. }\end{array} & \begin{array}{l}\text { Examples: The verbs in the progressive } \\ \text { form use a form of "to be" + the } \\ \text { present participle (an -ing verb). }\end{array} \\ \hline \begin{array}{l}\text { Past progressive: contains was, were + } \\ \text { an -ing verb. }\end{array} & \begin{array}{l}\text { She was playing football. } \\ \text { We were eating dinner. }\end{array} \\ \hline \begin{array}{l}\text { Present progressive: contains is, are, am } \\ \text { + an-ing verb. }\end{array} & \begin{array}{l}\text { He is reading a book. } \\ \text { They are making a cake. }\end{array} \\ \text { I am painting a picture. }\end{array} \right\rvert\, \begin{array}{l}\text { Subordinate clause: a clause, typically } \\ \hline \begin{array}{l}\text { Main clause: a clause that can form a } \\ \text { complete sentence standing alone. } \\ \text { Contains a subject and verb. If the main } \\ \text { clause comes first no comma is needed. }\end{array} \\ \hline \begin{array}{l}\text { I still had energy for my lessons. } \\ \text { introduced by a subordinating } \\ \text { conjunction, that adds extra information } \\ \text { and cannot stand alone. }\end{array} \\ \hline \begin{array}{l}\text { I still had energy for my lessons even } \\ \text { though I cycled to school. }\end{array} \\ \hline \begin{array}{l}\text { Synonyms: words that have the same } \\ \text { or similar meanings. }\end{array} \\ \hline \begin{array}{l}\text { talk-speak } \\ \text { big-large }\end{array} \\ \text { Although I was feeling scared, I crept } \\ \text { inside the room. }\end{array}\right\}$

| Hyphens: are used to combine words | Examples: |
| :--- | :--- | :--- |
| that have a combined meaning or are | three-vear-old |
| linked in the grammar of a sentence. | rockforming minerals |

Man eating shark- suggests the man is eating shark.

Man-eating shark - suggests the shark eats man.

Example:
Semi colons, colons and dashes can be used to separate boundaries between two clauses.

Semi colons(;) separate two main clauses and are normally used instead of a coordinating conjunction.

Colons(:) are used to introduce related information.

Dashes- can be used in place of a colon when you want to emphasize the conclusion of your sentence.

Semi colons, colons and bullet points can also be used in lists.

Semi colons(;) they are also used to separate items in a list that contain commas already.
Colons(:) they are also used to present a list.

Bullet points. make a list easier to read. There are no capital letters or full stops needed.

Subjunctive form: it is used to express wishes, hopes, commands, demands or suggestions. Usually it is the thirdperson form of the verb with the -s dropped, but the verb to be is a special case.

Some people like sweets; others like chocolate.

He was missing two things: his hat and his coat.

The house rule is simple- clean up after yourself.

Example:

My dream band would be: Ray, vocals; Arthur, guitar and backing vocals; Rifat, bass; and Tom, drums.

I ordered the following: eggs, beans, sausage, bacon and a cup of tea.

Remember to:

- wash up everything in the sink
- dry the dishes with the towel
- pack everything away on the shelf


## Example:

I wish I were able to fly.
It is vital that she attend the meeting.
If I were you, I'd accept the offer.
I demand that they be counted again.



## Geography



Organise your ideas into a concept map, like the one below that summarises 'cells'. In a concept map, you take the main ideas and link them together with phrases that explain the relationship between the concepts. But, always try to make the concept map from memory first! Then check it with the knowledge organiser

## Africa Knowledge Organiser



Africa is not a country. It is one of the worlds continents. It contains 54 countries many have their own language and Culture.


The European colonisers took away resources like gold timber and rubber. So, they got richer, and Africa did not. European slave traders took at least 10 million Africans to work on plantations in North America this made the Europeans richer

## Africa Today

Africa is the second largest continent in both area and population.
Africa has a population of 1.3 billion people.


Africa has a young population, over half are under 20 years old.
$60 \%$ of African's depend on farming for a living.
There are hundreds of different ethnic groups- many have their own traditions.

Population distribution in Africa


Key


Densely populated

Is Africa a Densely or sparsely populated Continent and Why?

Densely populated: An area that is crowded with People.

Sparsely populated: An Area that has few people living in it.

What are Africa's Main Physical Features


- Sahara Desert
- Mount Kilimanjaro
- Victoria Falls
- Atlas Mountains

- The Nile
- Lake Chad
- Ethiopian Highlands
- Mt Kenya
- Kalahari Desert


## Africa Knowledge Organiser

Africa's Biomes
A biome is a large region with its own distinct climate, plants, and animals. The climate dictates the way the biome is like. That's because plants and animals adapt to suit the climate.


Climate Zones


## Savanna

The savanna is warm all year, with a rainy season.
It is rolling grassland, with scattered trees. You may see Lions and elephants


Rainforest Warm and wet all year.
There are thousands of species of plants. Animals include chimps and gorillas, many kinds of monkey, snakes, hippos, and hundreds of birds.


Semi Desert. Life is hard here. People raise animals: cattle, goats, sheep, camels. Some grow crops such as maize. Rain often fails leading to plants and animals dying.


Africa has many natural resources which it can use to earn money.

- It has large deposits of metal ores, including copper, uranium and iron and gold.
- It has $8 \%$ of the worlds known oil and gas reserves- and may find more.
- But natural resources are never spread evenly. Only some countries have diamond mines, for example.
- Most of the big companies who extract the ores, diamonds, oil, and gas are in fact foreign companies. Much of their profits leave Africa.
- Most Countries grow cash crops like cotton, tea, coffee, rubber, fruits, and flowers for export.
- Most of the exported materials are processed in the countries that buy them. For example, copper is turned into electric cables. This adds value. Cables can be sold for a lot more than the copper itself.


## Year 8 Kenya Knowledge Organiser



Kenya is a country in East Africa. It lies across the Equator and borders the Indian ocean. Its capital is Nairobi. Look at the disputed area on map B. It is called the llemi triangle. Kenya controls it, but south Sudan claims it too.

The Chalabi area is so dry it's a desert.


The eastern half of Kenya is low and flat. The high and mountainous land lies in the western half. Mount Kenya is Kenya's highest mountain ( 5199 m ), it is an extinct volcano. Lake Victoria lies west of the rift valley. It is the largest lake in Africa by area.



The population is rising fast, by 2050 it is predicted to have a population of 95 million. There are two reasons for this: Better health care, there are more doctors and clinics. So, people are living longer and less babies are dying. A high fertility rates most women are having 4 children on average.
Graph D shows a population pyramid. It shows the \% of Kenya's population in each age group in any given year. In 2018 40.7\% of the population were under 15.

## Nairobi Today



Today, Nairobi is a lively vibrant city, and truly multi-ethnic. The west of the city has wealthier areas, were the people of all races live. The east and the south are low-income areas.


## Over 60\% of Nairobi's

 population live in slums. Their homes are shacks with no running water or toilets, and often have no electricity. People queue for public toilets and taps.
## Africa Knowledge Organiser

How Kenya Earns money from Flowers?


What does everyone do?


More and more farmers are growing cash cropscrops to sell. Like tea, coffee, fruit, and vegetables. Cash crops can be exported.


A service for sending money by mobile phone. You pay cash at the booth, then text a code to another person, who collects the money at another booth.

## On Safari

How's Kenya Doing?


Go on safari in Kenya! See lions, leopards, hippos, rhinos, elephants, giraffes, monkeys, wildebeest, crocodiles and more.
Kenya has 65 national parks and reserves where wildlife is protected, some are lakes.
The government needs money, it can earn some from tourism and tourism creates jobs.
The local people the Maasai were cleared off their land they have always used for grazing, to make way for the reserves causing conflict.

$44 \%$ of Kenyans have no electricity in their homes.
28\% have no access to piped water, at home or in street pipes.
$41 \%$ have no access to a proper toilet. 1 in 3 live on less than $£ 1.50$ per day. Poverty is worst in the north and northeast of Kenya.

## History



You can make your own questions. This process takes a lot of time, but if you create a study group you can each create a few questions and trade. However it is important that you write what Key facts or knowledge you expect to see in any answer.

Year 8 - History Knowledge Organiser - Unit 5 - Why did World War Two happen?

| Key Terms |  |
| :--- | :--- |
| Armistice | Both sides agree to stop <br> fighting for a certain amount of <br> time. |
| Abdication | A monarch is forced to step <br> down from their role as <br> king/queen. |
| Republic | A country ruled by the <br> government for the people. |
| Treaty | An agreement made between <br> countries. |
| Reparations | Payments made to cover the <br> cost of damages. |
| Opposition | Going against something. <br> TraditionalThe belief that the way of life <br> that has been carried out in a <br> country should not be changed <br> e.g. women should stay at home <br> and look after children instead <br> of working. |


| Key events in order |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| World War One ends in an armistice. Both sides agree to stop fighting in 1918. | The Kaiser abdicated and Germany becomes the Weimar Republic. | 1919 the Treaty of Versailles is very harsh on Germany and makes it very weak. | Adolf Hitler and the Nazi Party gain popularity in Germany. | 1933 Hitler become chancellor of Germany. By 1934 Germany is ruled by the Nazi Party. |



## Threshold Concepts linked to this unit:

[^1]Key Fact
The Treaty of Versailles was harsh to try and prevent World War One ever
happening again. Many Historians believe
that the harshness of the Treaty was
the main reason why the Nazi Party was able to take control in Germany.

Year 8 - History Knowledge Organiser - Unit 6 - How significant was World War Two?


| Home Front | their home country to defend <br> people during a war. |
| :--- | :--- |
| Minorities | Groups of people which make up <br> smaller numbers of the overall <br> population e.g. Jewish people. |
| Isolationism | The idea that a country removes <br> itself from issues which involve <br> other countries. |
| Imperialism | The idea of growing an empire <br> by taking over other countries <br> and controlling people from <br> around the world. |

Key countries in World War Two
Germany
Under Nazi rule
Germany was the cause of World War Two. The Nazi aim to take over more land and eliminate people it didn't see as worthy gave the Allies a clear enemy to fight against.

URRS/ Russia The USSR started World War Two and a Nazi ally. By 1941 this had changed and the USSR joining with the Allies was one of the key reasons why the Nazi's would lose.

Japan
The Japanese were fighting for control of China and believed that the USA was a threat to their ability to win. Their attack on Pearl Harbour brought the USA into World War Two

## Italy

Under dictator Mussolini, Italy used World War Two to attempt to conquer large parts of Africa to expand the Italian empire. This led to fighting taking place across a number of different continents

## Threshold Concepts linked to this unit:

World War Two was a global war because of the countries involved as well as the involvement of soldiers and civilians.
Which events are seen as significant can change based on who is looking back at them and their own personal TC26 interpretations based on a number of factors such as their own heritage.

## Key Fact

Just like World War One, World War Two was a total war. This means it was fought by soldiers and civilians. It was much clearer why the fighting was happening in World War Two so civilians played an even bigger role in the war.

## Maths

## QUIZZING

Create practice questions on a topic. Swap your questions with a parther \& answer.
Question - What is a metaphor?A comparison using 'like, as, thanA comparison where one thing is another.
$\square$ A comparison with a human attribute.
You can make your own questions. This process takes a lot of time, but if you create a study group you can each create a few questions and trade. However it is important that you write what Key facts or knowledge you expect to see in any answer.

## YEAR \& - DEVELOPING GEOMETRY... @whisto_maths angles in parallel lines and polygons

## What do I need to be able

## to do? <br> By the end of this unit you should be able to: <br> - Identify attermate angles <br> - Identify corresponding angles <br> - Identify co-interior angles <br> - Find the sum of interior angles in poyygons <br> - Find the sum of exterior angles in polygons <br> - Find interior angles in regular polygons <br> Basic angle rules and notation $R$

## I Keywords

I Paralle: Straight ines that never meet
angle: The figure formed by two straight ines meeting (measured in dearees)
Transversal: a ine that cuts across two or more other (normally paraliell lines
I losceles: Two equal size lines and equal size angles (in a triangle or trapezium)
I Polygon: a 2 D shape made with straight lines
I Sum: Oddition (total of all the interior angles added together)
I Regular polygon: all the sides have equal length, all the interior angles have equal size.

"I Sum of exterior angles



Exterior angles all add up to $360^{\circ}$

## Co-interior angles

Because atternate angles are equal the highlighted angles are the same size

Because corresponding angles are equal the highlighted angles are the same size

## altemate/ Corresponding angles



## Properties of Quadrilaterals

all angles $90^{\circ}$
Opposite sides are parallel

## Paralebogram

Opposite sides are parallel Opposite angles are equal Co-interior angles
Trapezium
One pair of parallel Ines

## Kite

No parallel ines
Equal lengths on top sides
Equal lengths on bottom sides
One pair of equal angles
Rectangle
all angles $90^{\circ}$
Opposite sides are parallel
Rhombus
Olldes equal size
Oposite angles are equal
(number of sides - 2) $\times 180$
different sizes

## Sum of interior angles

Sum of the interior angles $=3 \times 180$ $=540^{\circ}$
Sum of the interior angles $=(5-2) \times 180$
This shape can be made from
three triangles
Each triangle has $180^{\circ}$
Remember this is all of the interior angles added together


## Missing angles in regular polygons



$$
\text { Exterior angles in regular polygons }=360^{\circ} \div \text { number of sides }
$$

interior angles in regular polygons $=($ number of sides -2$) \times 180$ number of sides

# YEAR \＆－DEVELOPING gEOMETRY．．． area of trapezia and Circles 

## What do I need to be able

## Ito do？

By the end of this unit you should be able to：
－Recal area of basic $2 D$ shapes
－Find the area of a trapezium
－Find the area of a circle
－Find the area of compound shapes
－Find the perimeter of compound shapes

## Keywords

## Congrvent：The same

area：Space inside a 2D object
Perimeter：Length around the outside of a $2 D$ object
$\mathrm{Pi}(\boldsymbol{\pi})$ ：The ratio of a circle＇s circumference to its diameter．
Perpendicular：at an angle of $90^{\circ}$ to a given surface
Formula：a mathematical relationship／rue given in symbols．Eg $b \times h=$ area of rectangle／square
Infinity（ $\infty$ ）：A number without a given ending（too great to count to the end of the number）－never ends Sector：a part of the circle enclosed by two radii and an arc．
ᄂニーニーニーニーニーーーー」

## area－rectangles，triangles，parallelograms $R$

Rectangle
Base $x$ Height

# YEAR \& - DEVELOPING GEOMETRY... Line symmetry and reflection <br> @uhisto_maths 

## What do I need to be able

 to do?By the end of this unit you should be able to:

- Recognise line symmetry
- Reflect in a horizontal line
- Reflect in a vertical line
- Reflect in a diagonal line


## Keywords

Mirror line: a line that passes through the center of a shape with a mirror image on either side of the line
Line of symmetry: same defintion as the mirror line
Reflect: mapping of one object from one position to another of equal distance from a given ine.
Vertex: a point where two or more-line segments meet.
I Perpendicular: Ines that cross at $90^{\circ}$
I Horizontal a straight line from left to right (parallel to the xaxis)
I Vertical a straight ine from top to bottom (parallel to the $y$ axis)

Rhombus
two lines of symmetry

Mirror line (line of reflection)


Shapes can have more than one line of symmetry...
This regular polygon (a regular pentagon has 5 lines of symmetry)


Reflect horizontally/vertically (1)

Parallebogram
No lines of symmetry

| all points need |
| :---: |
| to be the same |
| distance away |
| from the line of |
| reflection |



Reflection in the line $y$ axis - this is also a reflection in the line $x=0$


## Lines parallel to the $x$ and $y$ axis

 REMEMBERLines parallel to the $x$-axis are $y=$
Lines parallel to the $y$-axis are $x=$

Reflect Diagonally (I)

Turn your image
If you tum your image it becomes a vertical horizontal reflection (also good to check your answer this way)



## Drawing perpendicular lines

Perpendicular ines to and
from the mirror ine can help you to plot diagonal reflections

This is the line $y=-x$ The $x$ and $y$ coordinate have the same value but opposite sign


## Turn your image

If you turn your image it becomes a vertical horizontal reflection (alao good to check your answer this way)

# YEAR \& - REASONING WITH DATA... The data handling cycle 

## i What do I need to be able to do? <br> By the end of this unit you should be able to: <br> I- Set up a statistical enquiry <br> I - Design and criticise questiomares <br> I - Draw and interpret multiple bar charts <br> - Draw and interpret line graphs <br> - Represent and interpret grouped quantitative data <br> I - Find and interpret the range <br> I - Compare distributions

## Keywords

I Hypothesis: an idea or question you want to test
I Sampling: the group of things you want to use to check your hypothesis
Primary Data: data you collect yourself
Secondary Data: data you source from elsewhere eg the internet/ newspapers/ local statistics
Discrete Data: numerical data that can only take set values
Continuous Data: numerical data that has an infinite number of values (often seen with height, distance, time)
I Spread: the distance/ how spread out/ variation of data
I average: a measure of central tendency - or the typical value of all the data together
I Proportion: numerical relationship that compares two things

I Set up a statistical enquiry


Design and criticise a questionnaire
I The Question - be clear with the question - don't be too leading/ judgemental
egg. How much pocket money do you get a week?
Responses - do you want closed or open responses? - do any options overlap? - Have I you an option for all responses?
$\xrightarrow[\text { Zero }]{\rightarrow \square £ 0 \square £ 0.01-£ 2 \square £ 2.01-£ 4 \square \text { more than } £ 4 \text { More }}$
NOTE: For responses about continuous data include inequalities $<x \leq$

## Pictograms, bar and line charts $R$

P Pictogram


O-4 people

- Need to remember a key Visually able to identity mode


Represents quantitative data
Line Chart


Gaps between the lines Clearly labelled axes Scale for the axes Discrete Data

## Draw and interpret Pie Charts



This fraction of the 360 degrees represents dogs
$\frac{32}{60} \times 360=192^{\circ}$

Remenmeracurch has $360^{\circ}$
There were 60 people asked in this survey (Total frequency)

## Multiple method

as 60 goes into 360 - 6 times. Each frequency can be multiplied by 6 to find the degrees (proportion of 360)

## Multiple Bar chart compares multiple group of data



Grouped quantitative data

discrete data

## Draw and interpret et line graphs

- Commonly used to show changing over time - The points are the recorded information and the lines join the points.

Line graphs do not need to start from 0
More than one piece of data can be plotted on the same graph to compare data
is possible to make estimates from the line eg temperature at 930 am is $5^{\circ} \mathrm{C}$

Ind and interpret the range Difference between the biggest and smallest values
a smaller range means there is less variation in the results - it is more consistent data
a range of 0 means all the data is the same value


Range of customers $=25-22=3$ (Shop I)

## YEAR \& - REASONING WITH DATA... Measures of location <br> @whisto_maths

## Keywords

## i What do I need to be able to do?

By the end of this unit you should be able to:

- Understand and use mean, median and mode
- Choose the most appropriate average
- Identify outliers
- Compare distributions using averages and range

Spread: the distance/ how spread out/variation of data
average: a measure of central tendency - or the typical value of all the data together
Total: all the data added together
I Frequency: the number of times the data values occur
I Represent: something that show's the value of another
Outier: a value that stands apart from the data set
Consistent: a set of data that is similar and doesn't change very much

## Mean, Median, Mode

The Mean
I a measure of average to find the central tendency...
I a typical value that represents the data

## 24, 8, 4, 11, 8

## The Median

The value in the center (in the middle) of the data
24, 8, 4, 11, 8,
Put the data in order
$4,8,8,11,24$
Find the value in the middle $4,8,8,11,24$

## The Mode (The modal value)

This is the number OR the item that occurs the most it does not have to be numerical
$24,8,4,11,8$,

Find the sum of the data (add the values) 55
I Divide the overall total by how many $55 \div 5$
I pieces of data you have

Which average best represents the weekly wage?

The average should be a representative of the data set - so it should be compared to the set as a whole - to check if it is an appropriate average

| Here are the weekly wages of a small firm |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |
| $£ 240$ | $£ 240$ | $£ 240$ | $£ 240$ | $£ 240$ |
| $£ 260$ | $£ 260$ | $£ 300$ | $£ 350$ | $£ 700$ |

The Mean $=£ 307$
The Median $=£ 250$
The Mode $=£ 240$

Put the data back into context
Mean/Median - too high (most of this company earn £240)
Mode is the best average that represents this wage
It is likely that the salaries above $£ 240$ are more senior staff members - their salary doesn't represent the average weekly wage of the majority of employers

## bentify atiers

Outiers are values that stand well apart from the rest of the data

I Outliers can have a big impact on range and mean identified try to give it some context. This is likely to be a taller member of the group. Could the be an older student or a teacher?

## Comparing distributions

Comparisons should include a statement of average and central tendency, as well as a statement about spread and consistency.

$$
\begin{aligned}
& \text { Here are the number of runs scored last month by Lucy and James in } \\
& \text { cricket matches } \\
& \text { Lucy: } 45,32,37,41,48,35 \\
& \text { James: } 60,90,41,23,14,23
\end{aligned}
$$

Lucy Mean: 39.6 (ldp), Median: 38 . Mode: no mode, Range: 16 James
Mean: 418 (Idp), Median: 32, Mode: 23, Range: 76 extreme values that have a bigimpact on the range
"James is less consistent that Lucy because his scores have a greater range. Lucy performed better on average because her scores have a similar mean and a higher median"

## Numeracy

Sparx Maths


Make sure you are regularly testing your knowledge using the resources provided by the school on platforms such as Sparx, Educake and Linguascope. You will have been issued with user names and passwords to access your accounts.

## Numeracy Knowledge Organiser

| Multiplication and Division Facts: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| x | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |  |  |  |  |
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |  |  |  |  |
| 2 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |  |  |  |  |  |
| 3 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 |  |  |  |  |  |
| 4 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 |  |  |  |  |  |
| 5 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |  |  |  |  |  |
| 6 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |  |  |  |  |  |
| 7 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 | 77 | 84 |  |  |  |  |  |
| 8 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 |  |  |  |  |  |
| 9 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 | 99 | 108 |  |  |  |  |  |
| 10 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |  |  |  |  |  |
| 11 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 110 | 121 | 132 |  |  |  |  |  |
| 12 | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 |  |  |  |  |  |

Prime Numbers up to 100:


Finding Percentages by hand:

| Find $\mathbf{5 0 \%}$ | Divide by $\mathbf{2}$ |
| :--- | :--- |
| Find $\mathbf{1 0 \%}$ | Divide by $\mathbf{1 0}$ |
| Find $\mathbf{1 \%}$ | Divide by $\mathbf{1 0 0}$ |

Fraction, Percentages and Equivalents:

| Fraction | Decimals | Percentage |
| :---: | :---: | :---: |
| $1 / 2$ | 0.5 | $50 \%$ |
| $1 / 4$ | 0.25 | $25 \%$ |
| $3 / 4$ | 0.75 | $75 \%$ |
| $1 / 3$ | 0.3 | $33.3 \%$ |
| $2 / 3$ | 0.6 | $66.6 \%$ |
| $1 / 5$ | 0.2 | $20 \%$ |
| $1 / 10$ | 0.1 | $10 \%$ |

## Place Value Table

| Million | H Th | T Th | Th | H | T | U | © | Tenths | Hundreths | Thousandeths |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1,000,000$ | 100,000 | 10,000 | 1000 | 100 | 10 | 1 |  | $1 / 10$ | $1 / 100$ | $1 / 1000$ |



| 3 S Shapes |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Edges | Nets of 3D shapes |  |  |  | Vocabulary |
| Parallel edges: Parallel edges are the same distance apart no matter how long they are. <br> Perpendicular edges: Edges are perpendicular if they meet at right angles. | Cube <br> Faces: 6 <br> Edges: 12 <br> Vertices: 8 <br> Square-based Pyramid Faces: 5 Edges: 8 Vertices: 5 <br> Hexagonal Prism Faces: 8 Edges: 18 Vertices:12 | Cuboid <br> Faces: 6 <br> Edges: 12 <br> Vertices: 8 | Triangular Prism Faces:5 Edges:9 Vertices: 6 | Vertex: | A vertex is a point at which two or more lines meet in an object or shape. |
|  |  | Tetrahedron <br> (Triangular-based Pyramid) <br> Faces: 4 <br> Edges: 6 <br> Vertices: 4 | Cone <br> Faces: 2 <br> Edges: 1 <br> Vertices: 0 or 1 | Face: | A face is the side of a solid shape. It usually means flat faces. The base of a shape is also a face. <br> The edge of a shape is where two faces |
|  |  | Hexagonal Pyramid Faces: 7 Edges: 12 Vertices: 7 | Cylinder <br> Faces:3 <br> Edges: 2 <br> Vertices: 0 | Edge: | meet. An edge can be curved or straight. |



Describing positions

When identifying or plotting points on a coordinate grid, the first number will always represent the $\mathbf{x}$ axis and the second number will always represent the $y$ axis.

E.g. The location of point $A$ is $(1,-4)$ The location of point $B$ is $(4,-4)$ The location of point $C$ is $(4,-2)$ The location of point Dis (1,-2)






| Large Roman Numerals |  | Example question | Time conversion graph |
| :---: | :---: | :---: | :---: |
| $50+70$ | $L+L X X \quad$Mr Mow <br> had trav | Mr Mowz got off the train at 00:30 on Boxing day. He had travelled for 55 mins . What time did he board the train? What day was it? $00: 00-25 \text { mins }=23: 35$ <br> It was $23: 35$ on Christmas Day. | $\begin{array}{\|lr} \hline \text { Travel time } & 5 \\ \text { (hours) } & 4.5 \\ \hline \end{array}$ |
| $100+350$ | $C+C C C L$ |  |  |
| $150+340$ | $C L+C C C X L$ |  | $\begin{array}{r} 3.5 \\ 3 \end{array}$ |
| $1000+3000$ | $M+M M M$ |  | $2.5$ |
| $500+600$ | $D+D C$ |  | 1.5 |
| $2018+1990$ | MMXVIII + MCMXC |  |  |
| $2550+190$ | $\mathrm{MDL}+\mathrm{CCXC}$ |  |  |
| 4. Key Vocabulary |  |  |  |
| Convert | Change from one metric to another. For example: changing from seconds to minutes. | Measurement: Time | - This time conversion graph compares time with the distance travelled in miles <br> - For example, after 2.5 hours the distance travelled is 150 miles <br> - Always use a ruler to ensure accuracy |
| Conversion fact | A fact used to help you convert between metrics. For example: there are 60 minutes in an hour. |  |  |
|  |  | Conversion facts |  |
| Timetable | A chart showing arrival and departure times | There are 24 hours in one day |  |
| Schedule | A plan for carrying out a process or procedure | There are 365 days in one year |  |
| Conversion graph | a line graph used to convert one unit to another | There are 10 years in a decade |  |
| Duration | How long something lasts for |  |  |
| Leap year | a year, occurring once every four years, which has 366 days including 29 February | There are 100 years in one century |  |
|  |  | There are 1000 years in a millennium |  |
| Millenium | a period of a thousand years | To convert from seconds to hours: convert to minutes first. |  |
| Century | a period of one hundred years. |  |  |  |

## MFL - French

## FLASHCARDS

Create your own flashcards, question on one side answer on the other. Can you make links between the cards?

## What is:

$$
7 \times 8=?
$$

You need to repeat the QA process for flashcards you fail on more frequently $\ddagger$ less frequently for those you answer correctly

Create a flash card with all the key facts you want to learn (this can be drawn in your book). On the next page try writing down as many facts or as much of the knowledge as you can. If you find you are getting certain facts wrong then these are where you need to focus and relearn.

Objective: To have a greater understanding of Parisian culture, and be able to discuss what you do/did on a holiday in Paris.

## Threshold Concepts:

The perfect tense is used to refer to completed past events. To form past participles of regular -er infinitives, the -er is replaced with the suffix -é.
In French the past participle of regular verbs is formed in three ways, depending on the type of infinitive -er, -ir, or -re
Certain verbs use "être" as their auxiliary verb to form the perfect tense. These verbs can be memorised using the acronym MRSVANDERTRAMP. The past participle of these verbs must agree with the subject of the verb.

## Essential Language - saying what you like doing

j'aime... - I like...
J'adore... - I love..
je n'aime pas... - I don'† like je déteste... - I hate...
aller au cinema (avec mes amis) - going to the cinema (with my friends) aller aux concerts (rock) - going to (rock) concerts
aller voir des matchs(au Parc des Princes) - going to watch matches (at the Parc des Princes)
faire du roller (au Trocadéro) - rollerblading (at the Trocadéro)
faire les magasins - going shopping prendre des photos - taking photos retrouver mes copains - meeting up with my mates

Using j'aime + the infinitive to say what you like doing
| J'aime aller au cinéma - I like going to the cinema
J'aime prendre des photos - I like taking photos

To say what you don't like doing, use je n'aime pas _ the infinitive.
Je n'aime pas faire les magasins - I don't like going shopping.

## Essential Vocabulary monuments in Paris

La tour Eiffel - the Eiffel Tower
L'Arc de Triomphe - the Arc de
Triomphe
Le musée du Louvre - the Louvre museum
Le Sacré-Coeur - Sacré-Coeur Les égouts - the sewers
Les catacombs - the catacombs
La cathédrale de Notre-Dame -
Notre-Dame Cathedral
Le Centre Pompidou - Pompidou Centre


[^2]*To form the perfect tense of -er verbs, you use: part of the verb avoir (to have) + a past participle.
To form the past participle, take - off -er and replace with -é.
visiter = visité
J'ai visité - I visited/I have visited
Tu as visité - You visited/you have visited
Il/elle a visité - he/she visited/he/she has visited On a visité - we visited/we have visited

## Essential Language - saying what you did

J'ai passé le 14 juillet à Paris - I spent the $14^{\text {th }}$ July in Paris J'ai acheté des souvenirs - I bought souvenirs
J'ai envoyé des cartes postales - I sent postcards
J'ai mangé au restaurant - I ate in a restaurant
J'ai beaucoup dansé - I danced a lo† J'ai regardé le defile/le feu d'artifice - I watched the parade/fireworks
J'ai rencontré un beau garçon/une jolie fille - I met a good-looking boy/a pretty girl
J'ai gagné un concours - I won a competition
J'ai passé une semaine à Paris - I spent a week in Paris
J'ai admiré la Pyramide du Louvre I admired the Louvre Pyramid J'ai pris des photos - I took photos J'au vu la Joconde - I saw the Mona Lisa
J'ai attendu le bus - I waited for the bus
J'ai très bien dormi - I slept very well
On a fait les magasins - we went shopping
On a bu un coca - we drank a cola On a fait un tour de la ville en segway - we did a tour of the town by segway
On a fait une balade en bateaumouche - we went on a boat trip

Essential Language - giving opinions/reasons
C'était comment? - how wr it
C'était... - it was...
génial - great
marrant - funny/a laugh
Cool -
intéressant - interesting
bizarre - strange nul - rubbish
 ennuyeux - boring
ce n'était pas mal - it wasn't bad
beau/belle - beautiful
J'ai trouvé ça... - I found it...
bien - good
cher - expensive
effrayant - scary

fabuleux - wonderful/fantastic
I Some verbs form their perfect tense with être (not with avoir).
You add an extra -e to the past participle In the feminine and an extra-s in the plural.
| aller(to go)
Je suis allé(e)
Tues allé(e)
Il/elle est allé(e)/on est allé(e)s
Nous sommes allé(e)s
| Vous êtes allé(e)(s)
Ils sont allés/ells sont allées




## Music

Make sure you are regularly testing your knowledge using the resources provided by the school on platforms such as Sparx, Educake and Linguascope. You will have been issued with user names and passwords to access your accounts.

## Music for Ensembles

| A. Texture |  |
| :---: | :--- |
| MONOPHONIC | A single melodic line. |
| HOMOPHONIC | A chordal style or melody <br> and accompaniment: <br> moving together. |
| POLYPHONIC | A more complex <br> (contrapuntal) texture with <br> a number of different lines. |
| Melody and | A tune with <br> 2-3-4 part <br> texture |
| accompaniment (e.g. |  |
| chords). |  |

## B. Jazz and Blues

Scat: vocal improvisation using wordless /nonsense syllables.
Improvised: music made up on the spot. Blue notes: flattened $3{ }^{\text {rd }}, 5$ ths and 7 ths. Syncopation: off-beat accents.
Call and Response: a phrase played/sung by a leader and repeated by others.
Walking bass: bass line that 'walks up' and down the notes of a scale/arpeggio.

Swing style: 'jazzy' rhythm with a triplet/dotted feeling.

A jazz ensemble may contain:

## Rhythm section

Drums
Bass (guitar or double bass)
Piano/guitar
'Horn section'

- Trumpet
- Trombone
- Saxophone

Some groups use a wider range of instruments e.g. clarinet, violin

12 Bar Blues in C

| C | C | C | C |
| :---: | :---: | :---: | :---: |
| F | F | C | C |
| G | F | C | C/G |

## C. Musical Theatre

Musical numbers may include:
Solo: a song for one singer.
Duet: a song for two singers.
Trio: a song for three singers.
Ensemble: a song sung by a small group.
Chorus: a large group (usually the full company/cast).

Recitative: a vocal style that imitates the rhythms and accents of speech.
Overture: an orchestral introduction to the show, which usually uses tunes from the show.
The orchestra /band is used to accompany the voices and underscore.

## D. A piece of music for:

Soprano - high female voice
Alto - low female voice Tenor - high male voice Bass - low male voice


| A prece ot music for: |  |
| :---: | :---: |
| DUET | 2 performers |
| TRIO | 3 performers |
| QUARTET | 4 performers |
| QUINTET | 5 performers |
| SEXTET | 6 performers |
| SEPTET | 7 performers |
| OCTET | 8 performers |

PE

## Year 8 PE Summer Knowledge Organiser

Students will start to leam and understand the short term effects of exerc ise on the body, what it means to have good communication skills a nd starting to demonstrate components of fithess in physic al a ctivity.




## Communication

You will need to show good communic ation skills in PE. To communicate effectively you have to:

- Speak clearly, and loud enough for all to hear.
- Use eye contact when getting a message across.
- Use kind words, that all will understand.
- Can you think of a time where you have had to show good communic ation skills?

Hands


## Components of Fitness

To be physical 'fit', there are many different areas you can work on:

- Balance
- Agility
- Speed

See if you can research the definitions of the a bove components of fitness, a nd link them to a sport.

## PSHE

## BRAIN DUMP

Write, draw a picture, create a mind-map on everything you know about a topic.


Give yourself a time limit, say 3 minutes. then have a look at your books \& add a few things you forgot.

## RS

## FLASHCARDS

Create your own flashcards, question on one side answer on the other. Can you make links between the cards?

## What is:

$$
7 \times 8=?
$$

You need to repeat the $Q: A$ process for flashcards you fail on more frequent thy \& less frequently for those you answer correctly

Create a flash card with all the key facts you want to learn (this can be drawn in your book). On the next page try writing down as many facts or as much of the knowledge as you can. If you find you are getting certain facts wrong then these are where you need to focus and relearn.

## RSE

## Look (g)

## Cover

## Write

Read through your knowledge organiser. Next, cover it up or put it away and try tho write down as many of the key facts that you can remember. Use your knowledge organiser to check the fact you have written down. Correct any you may have got wrong.

## Science



Organise your ideas into a concept map, like the one below that summarises 'cells'. In a concept map, you take the main ideas and link them together with phrases that explain the relationship between the concepts. But, always try to make the concept map from memory first! Then check it with the knowledge organiser





[^0]:    E (score > 100
    setText (7 "feedback_label", "Great Work"); else if $\{($ score $>6) \mid$
    setText(v"feedback_1abe1", "Not Bad"); setText(7"feedback_label", "Hard Luck");

[^1]:    TC23
    Germany changed from a monarchy to a republic and ended as a dictatorship between 1918 and 1939

    TC24
    It is important to use historical perspective when analysing the significance of different groups and events.

[^2]:    * You use the perfect tense to say what you did or what you have done.

