### LIFE IN ALL ITS FULLNESS



### Year 7 Knowledge Organiser

### Learning Cycle 1 2024-25

This document should be stored in your Knowledge Organiser folder and taken to every lesson.

What is a Knowledge Organiser?	Why do I have to carry my Knowledge Organiser around with me?
A knowledge organiser is a document that sets out the key information you	Your teachers may use your Knowledge Organisers in lessons. They are
need to understand, learn and memorise in each of the topics you study in	yours forever and you should annotate or highlight them if it helps you
this learning cycle. You will be given 3 Knowledge Organisers over the	remember the information. They will be used in lessons when you have a
academic year.	cover teacher, during form time and as part of homework.
How should I use my Knowledge Organiser?	What do I do with my Knowledge Organiser at the end of the cycle?
You should use your Knowledge Organiser to learn this key information and commit it to memory. Your teachers will often quiz you on the information in the Knowledge Organiser and the content will be useful for your exams at the end of the year. The best way of using it is to use the <b>look, cover, write, check</b> method.	You need to keep your knowledge organisers your Knowledge Organiser folder and keep taking them to lessons. Your teachers may refer back to key learning earlier in the year and use them for revision. By the end of Year 9 you will have been given 9 Knowledge Organisers.

### Why is a Knowledge Organiser important?

New GCSE specifications mean that students have to memorise more facts, equations, quotations and information than ever before and there are things you will learn right from the start of Year 7 that you will need to know in Year 11 when you sit your GCSE exams – the Knowledge Organiser helps you identify the things that you will need to try to commit to your long-term memory and return to over and over again during your time at secondary school. There are also things that we think it is important you learn about and remember that might not be in a GCSE exam but represent useful knowledge for life.

### Knowledge Organisers – A User's Guide

Your Knowledge Organiser is a vital document. It contains all the key things from your lessons that you will need to work on committing to your long-term memory.

The best method to use when you are working on memorising things from your Knowledge Organiser is to self-quiz, or quiz with a partner, using the look, cover, write, check technique:

- Look. Read the piece of information carefully, two or three times.
- Cover. Now cover what you have just read up.
- Write. Now try and write down the piece of information you read.
- Check. Did you write the information down correctly? If not, correct with a different coloured pen and then repeat!

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### ART

### Year 7 term 1 Symbolism Klimt

<u>Symbolism</u> Is to represent something by the use of symbols

Is an art movement involving the use of symbols to express ideas

Symbolism has been used in many different ways throughout art history to communicate many different stories, messages, meanings.

### Symbols in our school crest tell the world what to expect from our school

The Talbot dog symbolises good manners

**The burning basket** symbolises the Worcestershire beacon bright and alight

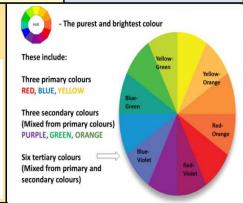
The Cross symbolises we are a church school

If you were designing a crest for **you** what symbols would you use to tell the world about you?

<u>Gustav Klimt</u> (July 14, 1862 – February 6, 1918) was an <u>Austrian Symbolist painter</u> His major works include <u>paintings</u>, <u>murals</u>, <u>sketches</u>, and other art objects, many of which are on display in Vienna. Klimt began his professional career painting interior murals and ceilings in large public buildings. Klimt's primary subject was the female body. His father, Ernst Klimt was a <u>gold</u> engraver. Klimt lived in <u>poverty</u> for most of his childhood.



### The Big Question – How can symbolism help us to understand the world around us?



### Colour symbolises:

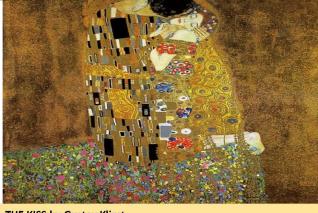
Red means anger, passion, love Blue means sad, cool cold

Yellow means sickly, cowardice

### The church year or Christian year known as the Liturgical year;

Distinct <u>liturgical colours</u> may appear in connection with different seasons of the liturgical year. The dates of the festivals vary somewhat between the different churches, though the sequence





### THE KISS by Gustav Klimt

### Understanding the symbolism in Klimt's work

Woman gown

Colourful flowers symbolise fertility and link to the bed of flowers she kneels on

Geometric shapes symbolise her union with the male Male gown

Geometric masculine shapes

Black and white but also curved flowing pattern in-between

Shapes and marks can express or symbolise an emotion.

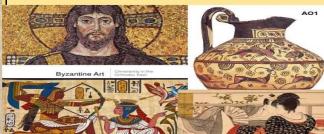
### Symbolism and emotion

Music suggests colour and mood

Shape suggests meaning

Colour suggests meaning

Influences - How do the art forms below link to Klimt's work?



### Art KS3 What are the formal elements?

The formal elements are the key ingredients when creating any piece of artwork. They are known as line, tone, texture, shape, form, pattern, space and colour.

**Line:** a mark or stroke, such as dashed, dotted, straight, curved etc.



Shape: the outline of something.



**Texture:** the look or feel of a surface such as rough, smooth, bumpy etc.









Form: a three dimensional object.



**Tone:** the lightness or darkness of a colour. This can be used to show shadows and highlights.



Space: the area an object takes up.



**Positive**The inside of a shape.



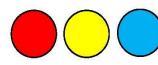
Negative The area surrounding a shape.

**Pattern:** a repeated or decorative design.

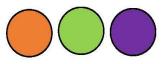


**Colour:** the quality of something created by the reflection of light.

**Primary:** a colour that cannot be made (Red, yellow and blue).



**Secondary:** a colour made by mixing two primary colours together.

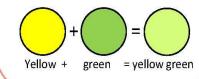






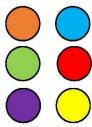


**Tertiary:** a colour made by mixing a primary and secondary colour together.





**Complimentary:** colours that are opposite each other in the colour wheel that compliment one another. The pairs are:



**Cool:** colours that remind us of cool, calm and peaceful things.



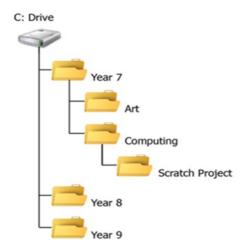
**Warm:** colours that remind us of warmth, fire and anger.



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### 2. COMPUTING

- 1 Using Computers Safely, Effectively & Responsibly (UCSER)
- Directory structure
  - Tree structure
  - Root directory
  - Pathname





### Knowledge Organiser for 7.1 E-safety in ICT

The internet is a fantastic resource that helps us learn, share, communicate and find entertainment. It has billions of users who use it for legitimate reasons. However, there are others who use the internet for illegal and unsavoury purposes.

Keywor	ds for types of e-safety:
Cyberbullying	The bullying of another person using the internet, mobile phones and other digital devices, with the intent to deliberately upset them.
Netiquette	Correct or acceptable way of commincation on the internet.
Cyberstalking	Repeated use of electronic communication to harass or frighten someone.
Online Grooming	Deliberate act taken to befriend and create an emotional connection with a child, resulting in not good intentions.
Cyperpal	A friend who you only communicate with through the internet or cyberspace.
Password	A secret word or phrases that must be used to gain access to something.
Emoji	Small digital image or icon used to express an idea, emotion, etc.
Hacking	Gaining access to a computer, with the intention of stealing data or causing damage.
Download	Copying data from one computer system to another, typically over the internet.
Chat room	A website, or part of a website which allows people to communicate via a computer network in real time.
Spam	An email that is sent to a large number of people and mostly consists of advertising.
SNS	An online platform that allows users to create a public profile and interact with others.

IM	Instant messaging.
Block	Action taken to stop interactions from certain people via online communication.
Social network	An online platform that allows users to create a public profile and interact with other users on the website.
Online profile	A social identity that an Internet user establishes in online communities and on websites.
Privacy settings	The part of a social networking website, internet browser, piece of software, etc. that allows you to control who sees information about you.
Virus	A program or piece of code that is loaded onto your computer without your knowledge and runs against your wishes and has a detrimental effect.
Phishing	Trying to get you to follow a link and provide information to the sender, like a password or an account number.
Plagiarism	The act of presenting another's work or ideas as your own.
	How do you stay safe on the Internet?
	1. Create complex passwords
	<ol><li>Boost your network security</li></ol>
	3. Use a firewall
	4. Click smart

5. Keep up to date

### Three Laws to protect against computer crimes:

- Sexual Offences Act 2003
- 2. Criminal Justice and Immigration Act 2008
- 3. Racial and Religious Hatred Act 2006

### Protection from online bullying and harassment

Cyberbullying is an extremely unpleasant and upsetting experience. There are several authorised websites that offer advice on how to stay safe online and what to do if Cyberbullying occurs:

BBC Webwise (www.bbc.co.uk/webwise)
Childline (http://www.childline.org.uk)
ThinkUKnow run by the Child Exploitation and
Online Protection centre (CEOP)
(www.thinkuknow.co.uk)

The Bullying UK helpline is available on 0808 800 2222, and Childline can be contacted on 0800 1111



ZIP IT

Keep your personal shuff private and think about what you say

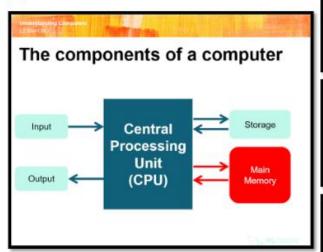


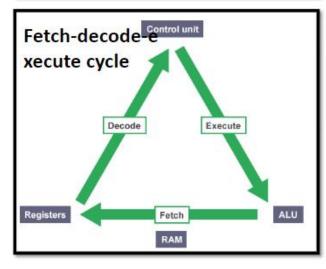
BLOCK IT Block people who send restly message and don't open unknown frés and



Flag up with someone you trust if anything speats you or if someone asks to meet you offine.

1





### Fetch-decode-execute cycle

The main job of the **CPU** is to **execute** programs using the **fetch-decode-execute cycle** (also known as the **instruction cycle**). This cycle begins as soon as you turn on a computer.

To execute a program, the program code is copied from secondary storage into the main memory. The CPU's **program counter** is set to the memory location where the first instruction in the program has been stored, and execution begins. The program is now running.

In a program, each <u>machine code</u> instruction takes up a slot in the main memory. These slots (or memory locations) each have a <u>unique memory address</u>. The program counter stores the address of each instruction and tells the CPU in what order they should be carried out.

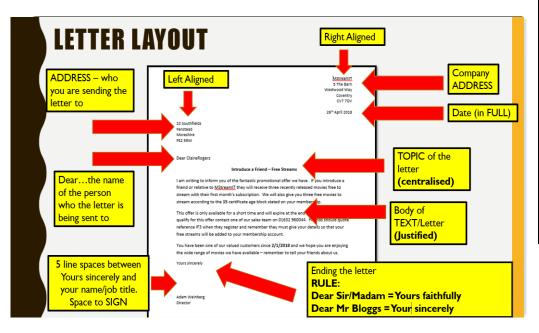
When a program is being executed, the CPU performs the fetchdecode-execute cycle, which repeats over and over again until reaching the STOP instruction.

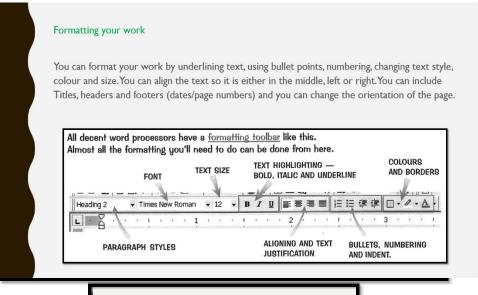
### Summary of the fetch-decode-execute cycle

- The processor checks the program counter to see which instruction to run next.
- The program counter gives an address value in the memory of where the next instruction is.
- The processor fetches the instruction value from this memory location.
- Once the instruction has been fetched, it needs to be decoded and executed. For example, this could involve taking one value, putting it into the <u>ALU</u>, then taking a different value from a <u>register</u> and adding the two together.
- Once this is complete, the processor goes back to the program counter to find the next instruction.
- 6. This cycle is repeated until the program ends.

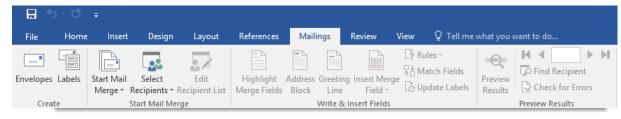
### 2 – Office Skills

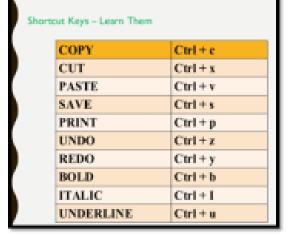
2 Using Word/Google Docs to write letters





### Mail Merge





### Spreadsheets -Knowledge Organiser

### Why do we use Spreadsheets?

Spreadsheets are used to store information and data. Once we have our information in a spreadsheet we can run powerful calculations, make graphs and charts and analyse patterns.

### Uses of spreadsheets:

- Budget tracker
- Stock tracking of a business
- Money use in a business
- Teacher may use it to keep a record of students grades

# Layout of a Spreadsheet

### Cell reference

A cell reference is the name given to a cell to uniquely identify it. E.g. E4

An absolute cell reference ensures that 1 cell always remains constant even when autofill is used.

E.g. \$E\$4

### Sort & Filter

Sorting data organises it in a

specific way e.g. Sort & alphabetically Filter

Filtering data makes it easy for us to find one specific piece of data without having to look through every piece of data

### 

### Formulas

Only use when creating a calculation between 2 cells

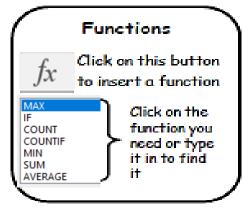
E.g.

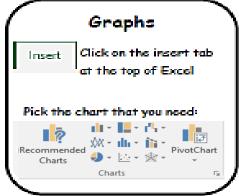
= A1 + B1 (odds)

= A1 - B1 (subtracts)

= A1 \* B1 (multiplies)

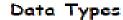
= A1 / B1 (divides)



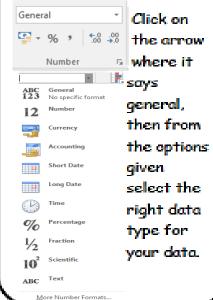


### Autofill

Click on the cell you want to duplicate, grab the black cross in the bottom right-hand corner and drag it down to the remaining cells.



You can format the cell to match the type of data you are inputting.



### Data Validation

Data
Click on the Data tab at the top of Excel

Click on this button to get the data validation
window

Use these headings to set up your data validation.

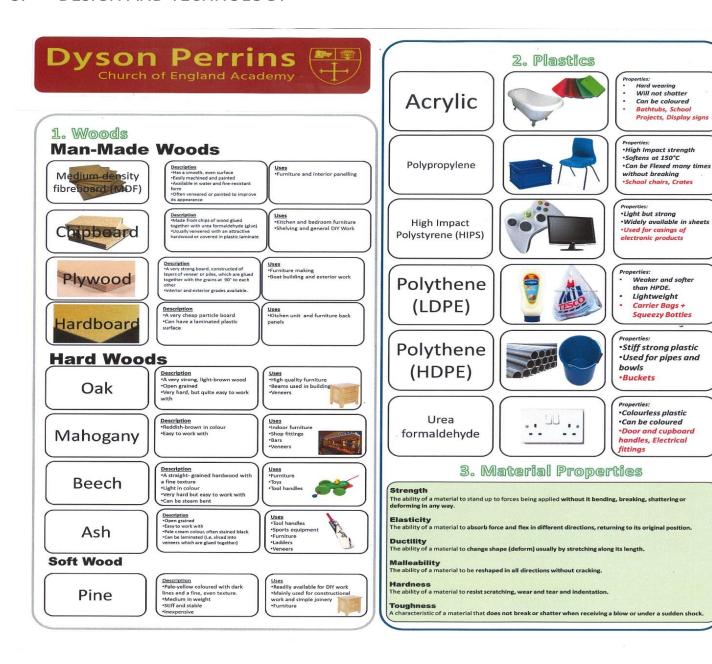


Click on this button to add
Conditional
Formatting
Conditional formatting

Settings Input Message Error Alert

Then click on highlight cell rules, depending on what your rule is select the next option that matches the rule you want to create.

### 3. **DESIGN AND TECHNOLOGY**



### 3. Metals

Aluminium

Properties:
•Light Weight Light grey in colour ·Can be polished to a mirror like appearance Rust resistant



Mild Steel

·Heavy

\*Dark grey in colour ·Rusts very quickly if exposed



**Stainless** Steel

·Heavy

Shiny appearance ·Very resistant to wear / rust.



Cast Iron



Copper

Properties:

•Reddish brown metal. ·Soft \*Excellent conductor of hear and electricity



**Brass** 

Properties: •Yellow metal



### A Commodifies

4. Composites			
Carbon Fibre	GRP Fibreglass		
Expensive in comparison	GRP is composed of		
to other materials.	strands of glass which		
	are woven to form a		
Very good strength to	flexible fabric. The		
weight ratio.	fabric is normally placed		
	in a mould and		
Used in the manufacture	polyester resin is added.		
of high end sports cars			
and sports equipment.	Glass reinforced plastic		
	is lightweight and has		
	good thermal insulation		
	properties. It has a high		
	strength to weight ratio		
4			

### 4. DRAMA

### Drama

### Year 7 Learning Cycle 1

### Silent Movies



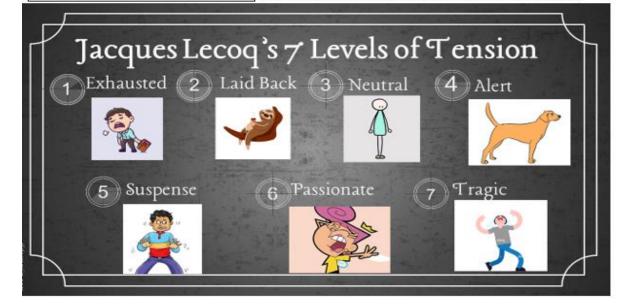
Slapstick: Comedy that includes CLUMSY actions and EMBARASSING events



### What is mime?

Acting without speaking

**Suspense:** Creating a feeling of excitement or nervousness about what might happen next



### Facial expression:

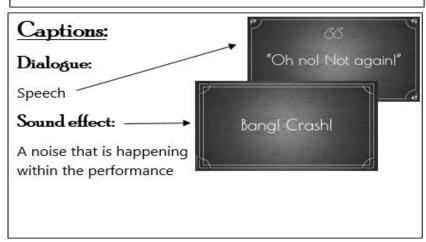
This is using your face to show emotion to the audience.

These need to be very over the top in a mime performance | .



### Gestures:

Moving part of the body in a way that expresses meaning e.g. waving to say hello. These need to be big and clear in a mime performance.



### 5. ENGLISH

### Learning Cycle 1

### The Dramatic World of Shakespeare

Subject terminology	Definitions
Archetype	an idea, symbol, pattern, or character-type, in a story.
Genre	a style or category of art, music, or literature.
Character	a person in a novel, play, or film. The traits and features of a person
Plot	the sequence of events in a play, novel, film,
Era	a long and distinct period of history.
History	Shakespearean play that cover English history from the twelfth to the sixteenth centuries
Tragedy	Shakespearean play with a sad ending where the main character has a flaw that causes them to suffer
Comedy	Shakespearean play the focuses on love and romance with mistaken identity, confusion and coincidence
Hero	a person who is admired for their courage, outstanding achievements, or noble qualities.
villain	a character whose evil actions or motives are important to the plot

In this learning cycle we will be exploring the world of heroes and villains throughout literature, reaching back to ancient times with Homer and mythical heroes such as Odysseus, discovering Shakespearean heroes and villains in 'The Winter's Tale' and exploring how these characters influenced the modern works of Rick Riordan and J.K Rowling in the characters of Percy Jackson, Harry Potter and Voldemort! We will also be exploring the portrayal of heroes and villains in our everyday lives through a series of non-fiction articles and real life stories of heroism, helping us to identify what it is to be a 'hero' today. So, hold onto your hats for an adventure through time, a brush with baddies and a more than generous helping of heroics!

### Key ideas:

Harry Potter and Lord Voldemort. Sherlock and Moriarty. Whatever the genre – be it romance, fantasy or detective fiction – many of our favourite stories involve a double act of a hero and villain, characters that inhabit our minds and linger in the imagination long after the tale is over.

Where would our stories be without these shades and light and dark? For us to understand what makes a hero, we need the villainous counterpart for comparison.

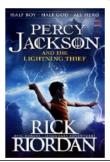
What is a hero? If you look up the definition of a "hero," you're likely to find something like "a person admired for his or her courage, outstanding achievements, or noble qualities." Someone like King Arthur immediately comes to mind – a true literary hero, a larger-than-life character, a defender, and a protector. But not all heroes in literature are created equal, which is why

there shouldn't be a single, idealized definition of a hero. Heroes and heroines in literature aren't always the paragons of virtue; in fact, they can be the exact opposite – flawed and lost souls who fail many times along their hero journey. Heroic deeds aren't limited to noble knights, dragon-slayers, soldiers, warriors, prodigies, or fantastical beings. Much like in real life, a hero in literature can also be someone without apparent heroic qualities, an ordinary boy or a girl trying their best in extraordinary circumstances.

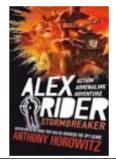
<u>Shakespeare's Theatre.</u> Many believe that Shakespeare was the greatest creator of characters but where did he get his inspiration from? His characters entertain, enthral, frighten, shock; move us to laughter or to tears. Politics, religion, monarchy, war, plague, censorship, and social traditions and conventions all played their part in shaping Shakespeare's work. Theatre construction, staging, costumes, and props all played a part in creating the magic. Shakespeare was also working to give audiences what they wanted to see, from the "groundlings" who paid a penny for a standing place in front of the stage, to Queen Elizabeth herself, who loved the theatre.

Shakespeare's company built the Globe in 1599 in Southwark on the south bank of the Thames. The Globe was an open-air theatre shaped like a doughnut. There were shelters over the seats and the stage, but the middle section was open to the sky. The sun was the only source of light – performances took place during the day, not at night like they do now. The building was made of wood and plaster, like most Tudor buildings, which meant it was vulnerable to fire. No candles!

Some further reading if you enjoyed our class texts:



The first novel of a new series that mixes classic Greek mythology with modern adventure. After learning he is a demigod, Percy Jackson is sent to a summer camp on Long Island, where he meets the father he never knew--Poseidon, god of the sea.



Fourteen-year-old Alex is forcibly recruited into MI6. Armed with secret gadgets, he is sent to investigate Herod Sayle, a man who is offering state-of-the-art Stormbreaker computers to every school in the country. But the teenage spy soon finds himself in mortal danger.



Bilbo Baggins enjoys a quiet and contented life, with no desire to travel far from the comforts of home; then one day the wizard Gandalf and a band of dwarves arrive unexpectedly and enlist his services on a dangerous expedition to raid the treasure-hoard of Smaug the dragon. Bilbo's life is never to be the same again.

### **FOOD AND NUTRITION**

### Food & Nutrition Knowledge Organiser





### Safety and Food Hygiene





Turn saucepan handles in away from edge of cooker Always turn hob off when not in use.

Never leave food cooking on the hob unattended. Be careful not to let food boil dry.

Never touch an electric hob when turned off, it may still be hot. Do not leave metal spoons in pans when cooking as they can

### Always use oven gloves when removing food from the oven. Working with high risk foods:

High-risk foods are foods that help support the growth of bacteria. Examples are meat, eggs, shellfish, cooked rice, fish, dairy and sauces.

Always keep high-risk foods in the fridge. Always check use by dates before use.

Ensure high risk foods are cooked to a core temperature of 75°C. Always prepare high-risk foods on correct chopping board.

Always wash hands after handling high-risk foods.

### Health & Safety in the Food Room: Personal Hygiene

Wash hands in hot, soapy water Tie long hair back

Wear a clean apron Tuck in tie

Remove blazer and jumper





### Recipe Adapting

Sometimes we adapt/change recipes because:-

- We don't like some of the ingredients
- We have an allerqu/intolerance
- We do not have the ingredients available
- We want to make a recipe better for our

There are 3 main ways to adapt a recipe:-

- Reducing using a smaller/larger quantity of an ingredient which is unhealthy/healthy
- Substituting swapping unhealthy ingredients for healthier versions
- Changing the method of cooking using a cooking method that doesn't require added fat/oil e.g. steaming, grilling, baking, boiling

### Practical Skills

0			•	0	8
Bake	Bect	Casserole	CHII	Core	Cream.
Cut/ Chep/Slice/Dice	Cut out	Decorate/Samish	Drain	Feld	Form/Shape
Fry and soute	Gloze and coat	Grate	Srill	(Jaice	Kneed
Layer	Measure	Microagus	Mix/Shir/Combine	Peel	Fortion/Divid
Prove	Puree/Biend	Reast	Roll out	Rub In	Simmer/Boil
Stir fry	Weigh	G Wask	Zest		

### 7. **FRENCH**

### Knowledge Organiser - Français -Year 7 - Learning Cycle 1.1 -

### Vocabulaire

On se rencontre
Bonjour!
Salut!
Comment t'appelles-tu?
Je m'appelle
Ça va?
Oui, ça va bien, merci.
Pas mal.
Non, ça ne va pas.
Au revoir.

### Les affaires pour le collège

Qu'est-ce que c'est? C'est ... un cahier une calculatrice un carnet de textes un crayon une gomme un livre un portable un porte-monnaie une règle un sac un stylo une trousse

### L'alphabet Comment ça s'écrit? Ça s'écrit ...

Meeting people Hello! Hil What's your name? My name's ... How are you? Yes, I'm OK, thanks, So-so. No, I'm not OK.

### School objects

Goodbye.

What's this? It's an exercise book a calculator a homework diary a pencil a rubber a book a mobile phone a purse a ruler a bag a pen a pencil case

### The alphabet How do you spell that? You spell it ...

Les nombres Numbers 1-31 1-31 1 un 2 deux 3 trois auatre 5 cinq six 7 sept 8 huit 9 neuf 10 dix 11 onze 12 douze 13 treize 14 quatorze 15 auinze 16 seize 17 dix-sept dix-huit 18 19 dix-neuf 20 vingt 21 vingt et un 22 vingt-deux 30 trente 31 trente et un Ages Les âges How old are you?

### Quel âge as-tu? J'ai ... ans.

lundi

mardi

jeudi

samedi

dimanche

The days of the Les jours de week la semaine Monday Tuesday Wednesday mercredi Thursday Friday vendredi Saturday Sunday

I am ... years old.



janvier février mars avril mai juin juillet août septembre octobre novembre décembre

Les mois

### Les anniversaires

C'est quand, ton anniversaire? Mon anniversaire, c'est le cing mai/ le premier juillet.

### En classe

Ilya... la chaise les crayons la fenêtre les livres le magnétophone la porte le professeur les règles le rétroprojecteur la table le tableau blanc des cahiers des crayons huit crayons quatre fenêtres C'est le crayon de Luc.

### The months

January

February March April May June July August September October November December

### Birthdays

the chair

When's your birthday? My birthday's on the 5th of May/the 1st of July.

### In the classroom There is/are

the pencils the window the books the tape-recorder the door the teacher the rulers the overhead projector the table the whiteboard some exercise books some pencils eight pencils four windows It's Luc's pencil.

### Les instructions Instructions Écoutez ... Listen to ...

Les couleurs

blanc(he)

bleu(e)

gris(e)

marron

noir(e)

orange

rose

rouge

vert(e)

jaune

Fermez ... Close ... Ouvrez ... Open ... Prenez ... Take ... Regardez ... Look at ... Travaillez à deux. Work in pairs.

### Colours

white blue grey yellow brown black orange pink red green

# Français - Year 7 Learning Cycle 1.1- Grammaire

(féminin). All nouns (les noms) in French have a gender (le genre): masculine (masculin) or feminine

All males (e.g. father) are masculine nouns, all females (e.g. mother) are feminine.

You can find the gender of other nouns in the dictionary: (m) means masculine, (f) means

indefinite article	definite article	
un	le	masculine
une	la	feminine
des*	les	plural

<sup>\*</sup>des usually means 'some'

Can you explain the rule? Here are some examples for you to learn

le cahier > Les cahiers

une règle → des règles

- une banane → des bananes
- la femme → les femmes
- un garçon > des garçons

G

- un stylo vert → des stylos verts Adjectives usually add -s if the noun they are describing is plural. un stylo vert → une règle verte

Adjectives usually add -e if the noun they are describing is feminine

e.g. a blue pen  $\rightarrow$  un stylo bleu

In French, most adjectives, including colours, come after the noun they are describing

Adjectives (les adjectifs) are describing words. Colours are adjectives.

- une règle verte → des règles vertes Adjectives which already end in -e don't add another -e for feminine
- Some adjectives are irregular e.g. blanc  $\rightarrow$  blanche

### Can you explain why? The right adjective is underlined

# J'ai un stylo <u>vert</u> / verte / verts / vertes.

Il y a une porte **jaune** / jaunes

ω

N

J'ai une idée génial / géniale/ géniales.

- C'est un cahier bleu / bleue / bleus / bleues.
- C'est une trousse vert / verte / verts / vertes
- C'est des gommes blanc / blanche / blanches

# Les adjectifs de couleur [Colour adjectives]

marron	marron	marron	marron	brown
grises	gris	grise	gris	grey
viole† <b>tes</b>	violets	viole† <u>te</u>	violet	violet
roses	roses	rose	rose	pink
blanc <b>hes</b>	blancs	blanc <b>he</b>	blanc	white
noires	noirs	noire	noir	black
jaunes	jaunes	jaune	jaune	yellow
vertes	verts	verte	vert	green
bleues	bleus	bleue	bleu	blue
rouges	rouges	rouge	rouge	red
Plural Fem	Plural Masc	Feminine	Masculine	English

### Knowledge Organiser - Français - Year 7 - Learning Cycle 1.2 Vocabulaire

Ma famille et	1
mes copains	
J'ai	
Je n'ai pas	
Tu as?	
As-tu?	
un frère	
une sœur	
un frère qui s'appelle	į
deux sœurs qui	
s'appellent	
Je suis	
fils unique (m)	1
fille unique (f)	į
mon ami	ĵ
mon copain	i
mon demi-frère	ì
mon frère	1
mon grand-père	j
mon oncle	i
mon père	į
mon amie	3
ma copine	i
ma demi-sœur	i
ma grand-mère	1

ma mère my sister ma sœur ma tante my aunt ma famille my family mes parents my parents mes grands-parents my grandparents Voici ... Here is/are ... Voilà ... That is/Those are ...

### My family and friends I have ...

I don't have ... Do you have ...? Do you have ...? a brother a sister

a brother called ... two sisters called ...

I am only child (male) only child (female) my friend (male) my friend (male) my half-brother/

stepbrother my brother my grandfather my uncle my father

my friend (female) my friend (female) my half-sister/ stepsister

my grandmother my mother

### Les animaux

J'ai ... un animal (des animaux) une araignée un chat

un cheval (des chevaux) un chien

un cochon d'Inde un hamster un lapin

un oiseau (des oiseaux)

un poisson un serpent

une souris (des souris) une tortue

Je n'ai pas d'animal.

Les adjectifs

Je suis ...

Tues ...

Il est ...

Elle est ...

petit (petite)

actif (active)

gourmand(e)

marrant(e)

sympa

timide

un peu

assez

très

bavard(e)

arand (arande)

de taille moyenne

paresseux(paresseuse)

sportif (sportive)

### Pets

I have ...

an animal (animals)

a spider a cat

a horse (horses)

a dog a quinea pig a hamster a rabbit a bird (birds)

a fish a snake

a mouse (mice) a tortoise

I don't have any

pets.

### Adjectives

T am You are He is ... She is ... small tall

of medium height

active chatty areedy funny lazy sporty nice shy a bit quite

very

### Les yeux et les cheveux

J'ai ... Tuas As-tu ...? Ila... Elle a ...

> les yeux bleus/gris/ marron/verts les cheveux blonds les cheveux bruns les cheveux noirs les cheveux roux les cheveux courts les cheveux longs les cheveux mi-lonas les cheveux frisés

Je n'ai pas de cheveux.

### Eyes and hair

I have ... You have ... Do you have ...? He has ... She has ...

blue/grey/brown/ green eyes fair hair brown hair dark hair red hair short hair long hair medium-length hair curly hair

I don't have any hair



### Year 7 1 Learning Cycle 1.2 Grammaire



- The usual way to form the plural of a French noun is to add -s on the end just as in English.
- whether the noun is singular or plural. You also have to remember that the article before the noun (e.g. le, un) changes according to

A Exemple: la sœur  $\rightarrow$  les sœurs (the sisters) un crayon  $\Rightarrow$  des crayons (some pens)

la tortue un cheval une araignée un cheveu un jumeau un chien le zèbre des cheveux des jumeaux des chevaux des araignées des chiens les tortues les zèbres

> -eau → -61 Irregular plurals <u>6</u> -eux -eaux - oux

'My', your', 'his', 'her', etc. are called possessive adjectives (les adjectifs possessifs):

	ses parents	sa sæur	son frère	his/her
_	tes parents	ta sœur	ton frère	your
_	mes parents	ma sœur	mon frère	my
_		féminin	masculin	
	pluriel	singulier	sing	

which begin with a vowel or e.g. mon amie h, you use mon, ton or son With feminine singular nouns Attention !!

Can you explain the rule The correct French possessive adjective is underlined

- C'est mon/ma/mes mère
- Où sont mon/ma/mes parents?
- Tu as ton/ta/tes sac?
- Où est ton/ta/tes chien?
- Où sont mon/ma/<u>mes</u> sœurs?

 $\infty$ Où est ton/ta/tes portable?

Ce sont ton/ta/tes frères?

- J'ai mon/ma/mes stylo.
- C'est ton/ta/tes animal.
- Où sont ton/ta/tes devoirs?

Je m'appelle Jai Je suis Jhabite Je parle Jadore Jaime	My name is  I have  I am  I live  I speak  I love  I like	احاجاجاتاتاتات
J'adore J'aime	I love I like	
Je n'aime pas	I don't like	

3rd Person -> He - She - It	He - She - It
Il/elle s'appelle	He/she/it is called
Il/elle a	He/she/it has
Il/elle est	He/she/it is
Il/elle habite	He/she/it lives
Il/elle parle	He/she/it speaks
Il/elle adore	He/she/it loves
Il/elle aime	He/she/it likes
Il/elle n'aime pas	He/she/it doesn't like

### Attention!!

elles s'appell <u>ent</u>	Ils s'appell <b>ent</b>
They [girls] are callec	They are called

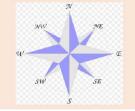
### **GEOGRAPHY**



You need to know the 8 point compass for giving directions, saying which way long shore drift is going or if it says look at the headland in the northwest corner of the map.

### The compass

On most maps the direction 'north' will be straight up the map but check the compass carefully.



### Map Symbols

Generally if you are given an OS map it will have a key telling you what the symbols mean. However, it's a good idea to learn some of the most common ones which are shown below.



### 4 Figure Grid References

Ordnance Survey maps have numbered gridlines drawn on them. The lines running up and down the page are called eastings (because their numbers get higher as you move eastwards) and the ones running across the map are known as northings (because their numbers get higher as you move northwards).



### Four-figure grid references

To give the 4 figure grid reference for the information centre give the number of the line that runs up the left hand side of the square

The give the number of the line that runs across the bottom of the square (33). This gives a four figure grid reference of 4733.



### Six- figure grid references

To give a 6 figure grid reference for the information centre start by finding the line that runs up the left hand side of the square (47) then imagine that the square is divided into tenths (this has been done for you on the diagram) and count across the tenths (6). Then give the line that runs across the bottom of the square (33) and count up the tenths (4). Put it altogether to give a grid reference of

### Inferring things from maps

### As a geographer you should be able to describe and interpret a map.

### **Describing locations**

When you are asked to describe the location of something then write about what it is near. Use the scale calculate exactly how far away it is and also use compass points to describe he direction.

### Inferring things from map evidence

You also need to be able to work something out using map evidence. For example you might be asked what evidence there is that tourism is important along a particular section of the coast, so you might look for a sandy beach, a cliff topic path and blue symbols which show tourist facilities e.g. a tourist information centre or a campsite.

### Drawing a field sketch

A field sketch is used to show the main geographical characteristics of a landscape. It should be an accurate outline sketch and include labels and annotations.





### Scale and Distance

Maps should always have a scale which can be shown with a ratio e.g 1:50,000 (which means 1 cm on the map equals 50,000cm (or 0.5km) in real life or a scale line which you can put your ruler alongside to see what distance is represented by 1cm on the map.

### On the paper's edge

One method of measuring distance is to take a sheet of paper and place the corner of a straight edge on your starting point. Now pivot the paper until the edge follows the route that you want to take.

### Step 1

Every time the route disappears or moves away from the straight edge of your paper, make a small mark on the edge and pivot the paper so the edge is back on course.

### Step 2

Repeat this process until you reach your destination.

### Step 3

You should be left with a series of marks along the edge of your paper. You can now place the sheet against the scale bar on your map. The last mark you made will tell you

the real distance you need to travel.





### Map and Atlas skills

**Year 7 GEOGRAPHY** 

### Contours

Contours are orange lines found on an OS map that join places of equal height above sea level. They show the height of the land in metres by the numbers marked on them. They also show the steepness of the land by how close they are together (the closer the lines the steeper the slope).

### Spot Heights

Spot heights are black dots with a number next to them that give the height of that particular spot.

### Steeper slope More gentle slope

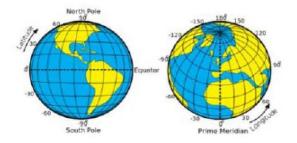




### Latitude and Longitude

Latitude lines on an atlas map run horizontally around the earth and tell us how far north or south of the Equator (0°). So for example London is

Longitude lines run vertically around the earth and they measure how far east or west of the Prime Meridian (a line of longitude that runs through Greenwich in London). So for example London would be 0° W.





### **Dyson Perrins C of E Academy**

The 5 countries of the <u>British Isles</u> are England, Scotland, Wales, Northern Ireland and the Republic of Ireland.



### The Physical Geography of the British Isles

The highland is located more to the North and West of the British Isles.

The areas that receive the highest rainfall are in the North and West. There is a link between rainfall and relief.









Britain can be described as <u>Multi Cultural</u>. This means that there are many different ethnic groups and cultures that live/exist in Britain in 2019. This has influenced many things such as the type of food people eat, the music we listen to, Sporting stars and the people who work in Britain.



### **FAMOUS PLACES TO VISIT IN BRITAIN**

Many people come on holiday each year to Britain. This is because there are many places to visit that appeal to lots of people.





People interested in History may visit
Stonehenge in Wiltshire, lots of people
visit the capital city of London and Big
Ben. Also, the Eden Project is a
popular destination for tourists going to
Cornwall.





Advantages of a multicultural society	Disadvantages of a multicultural society
More varied food available from different countries.	Ethnic minority groups may feel isolated living in parts of Britain.
People have more understanding and tolerance of other peoples beliefs and religion.	Resentment and conflict could occur between different ethnic groups.

### WHY DO PEOPLE MOVE TO BRITAIN?

People from other countries move to Britain for different reasons.

PUSH factors are negative factors that make them leave a place and PULL factors are positive factors that attract them to a place such as Britain.

PUSH FACTORS (Negative)	PULL FACTORS (Positive)
Natural disasters such as Earthquakes, Volcanic Eruptions.	More varied type of jobs.
War or conflict in an area e.g. people left Syria due to the war.	Family and Friends living in the area.







### 9. **HISTORY**

Year 7 History LC1.1 The Pursuit of History				
Historical Time Periods				
Pre-History	The period between the use of stone tools 3.3 million years ago and the invention of writing systems roughly 5,300 years ago.			
Ancient History	The period from the beginning of writing roughly 5,300 years ago and the end of the Roman Empire in 467 CE			
Middle Ages/Medieval period	From the 5 <sup>th</sup> century and the fall of the Roman Empire to the 15 <sup>th</sup> century (400 BCE – 1499 CE)			
Renaissance period	Renaissance means 'rebirth of learning' and the period began in the $15^{th}$ century and lasted until the $17^{th}$ century. (1400-1699)			
Age of Revolutions	The period during the 18 <sup>th</sup> century up to the end of the Industrial Revolution at the beginning of the 20 <sup>th</sup> century (1700-1899)			
Modern History	The 20 <sup>th</sup> century right up to the present day. (1900-present)			

### **Primary Sources**

Primary sources are original first-hand accounts of or objects from an event, topic or historical time period.

### letters















### Secondary Sources

clothing

A secondary source is a second-hand account that interprets primary sources. They often use primary sources as the basis for their content.





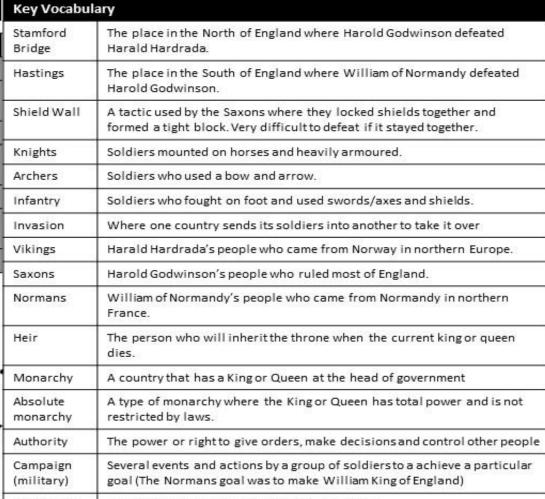


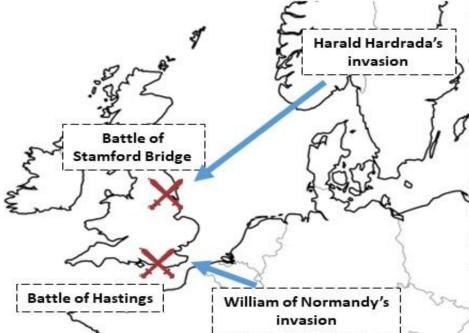




Anachronism	An object which appears in the wrong time period
Artefact	An object from the past made by a human being
BCE/BC	Before Common Era/Before Christ
CE/AD	Common Era-The years since the time of Jesus
Century	100 years
Cause	The reason why an event happened
Chronicle	A book recording events that happened year by year.
Chronological order	Putting events into the order they happened
Consequence	What happens after an event.
Contemporaries	People who were alive at the same time as the person being described.
Continuity	When things stay the same
Decade	10 years
Document	A record of something that is written/photographed/printed or other form
Empathy	To understand and share the feelings of another
Evidence	Facts or information that indicates if something is true
Enquiry	An investigation that involves asking questions and using evidence.
Interpretation	How something is understood. Historians often have different interpretations about the past.
Historian	Someone who researches the past and tries to explain what happened in the past.
Significant	Something that is seen to be important.
Source	An object, image or a piece of writing that helps historians answer questions about the past.

Timeline	
5 <sup>th</sup> Jan 1066	Edward the Confessor dies without an heir
6 <sup>th</sup> Jan 1066	Harold Godwinson crowned King of England by the Witan Council
Sept 1066	Harald Hardrada invades the North of England
25 <sup>th</sup> Sept 1066	Harold Godwinson defeats Harald Hardrada at Stamford Bridge
28 <sup>th</sup> Sept 1066	William of Normandy invades the South of England
14 <sup>th</sup> Oct 1066	William defeats Harold Godwinson at the Battle of Hastings in 1066
25 <sup>th</sup> Dec 1066	William is crowned King of England





Key Individuals				
Edward the Confessor	King of England who died in 1066 without an heir.			
Harold Godwinson	Saxon King of England who took power after Edward the Confessor.			
Harald Hardrada	Viking King of Norway.			
William of Normandy	Norman Duke of Normandy.			

Not having the right or the authority to be King.

Illegitimacy

### Year 7 History LC1 .3 William the Conqueror after 1066

Timeline	
1066	William immediately begins building castles to control his new country.
1069	Rebellions break out across the north of England.
1069-71	William carries out the Harrying of the North to subdue the rebellions.
1085-86	The surveys for the Domesday book are undertaken.

Features of a Castle		
Motte		Keep
		Bailey
Drawbridge	Palisade	Moat

Castle	A wooden or stone building created for defence.
Feudal System	The social structure created by William to control the population of England.
Harrying	The constant attacking of a civilian population
Hierarchy	The structure of a society based on power, wealth and status.
Nobility	Highest social class in the country.
Baron	The biggest landowners and military leaders in England. Part of the nobility
Knight	The soldiers in the Baron's armies.
Villein	The majority of England's population who were farmers who were tied to the land and could not leave without permission from the lord.
Motte and Bailey	Castles made of wood with a large open space (Motte) and a wooden fort built on a raised hill (Bailey)
Moat	The deep ditch dug around the Motte of a castle
Drawbridge	A bridge over to the moat, can be raised and lowered.
Census	When a government finds out who is in their country
Monk	A religious person, usually involved in writing records.
Rebellion	Where a group of people refuse to support the current government or monarch.
Gentry	People of a good social position just below the nobility.
peasants	Lowest social class in society.
Bishops	Senior member of the church and high social status.
Primogeniture	A feudal rule that ensures the eldest son Inherits all the land
Authority	The power or right to give orders and make decisions.
Survey	To record information on an area of land and keep as a record

### 10. MATHEMATICS



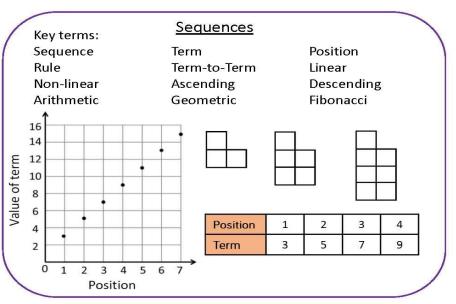
Year 7

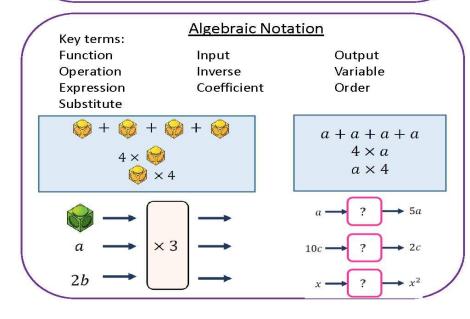
**Mathematics** 

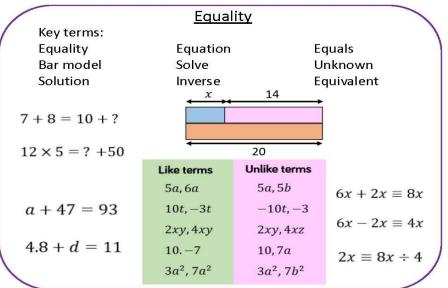
Learning Cycle 1

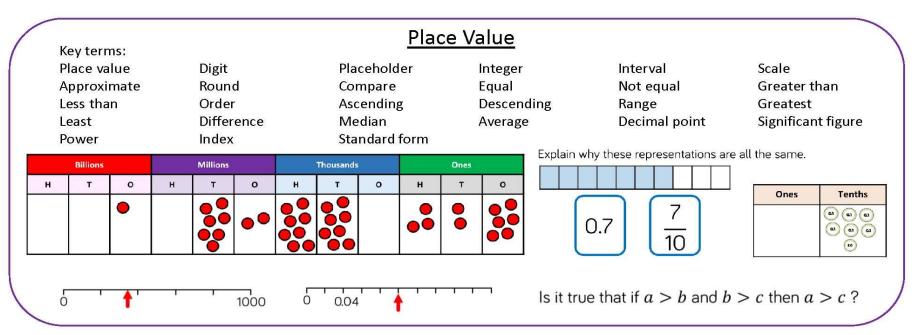
Weeks 1 to 6: Algebraic Thinking

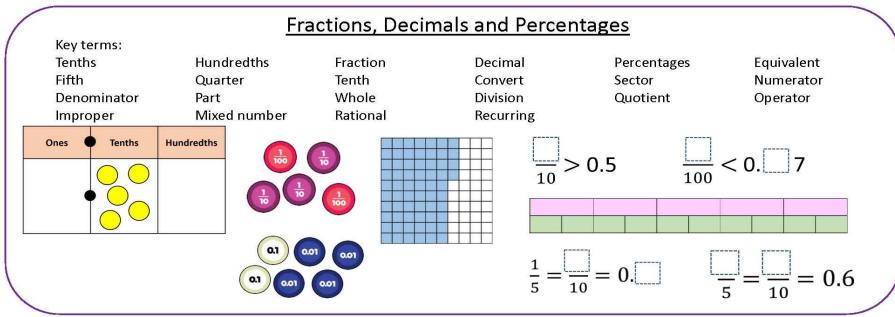
Weeks 7 to 12: Place Value & Proportion











### 11. MUSIC



Silence: The opposite of sound

**Timbre:** Each instruments' own unique tone quality/sound

The Elements of Music

**Pitch:** The highness or lowness of the note – HIGH/LOW

**Texture:** How many sounds can be heard at the same time – THICK/THIN

**Tempo:** The speed of the piece of music – FAST/SLOW

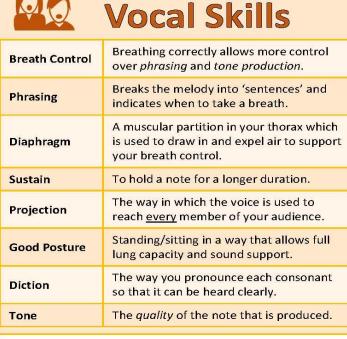
**Duration:** The length of a sound – LONG/SHORT

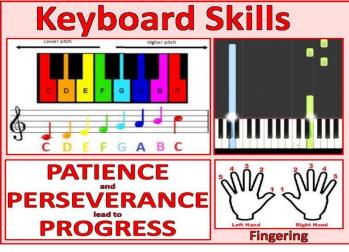
**Attack & Decay:** How a sound STARTS and STOPS.

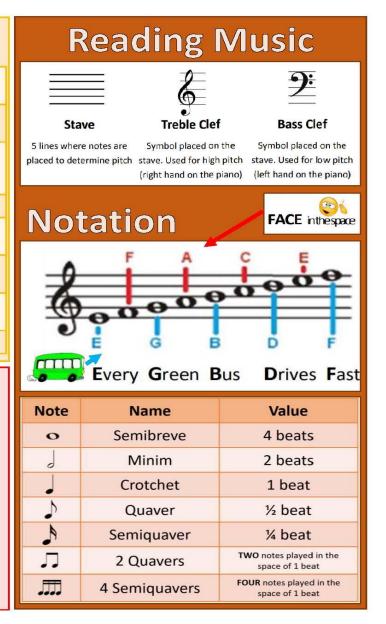
**Dynamics:** The volume of a sound – LOUD/SOFT

**Melody:** Another word for melody is 'tune'. A melody is a mixture of moving by step, and moving by leap. If the tune goes up in pitch, it is called 'ascending'. If the tune goes down in pitch, it is called 'descending'

Rhythm: A pattern of long/short notes and silences. Rhythm Helps Your Two Hips Move







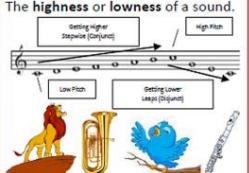


### Exploring the Elements of Music



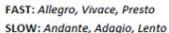
### A. Pitch

The highness or lowness of a sound.



### B. Tempo

The speed of a sound or piece of music.



**GETTING FASTER -**Accelerando (accel.)

**GETTING SLOWER -**Ritardando (rit.) or Rallentando (rall.)



### C. Dynamics

The volume of a sound or piece of music.

VERY LOUD: Fortissimo (ff)

LOUD: Forte (f)

QUITE LOUD: Mezzo Forte (mf) QUITE SOFT: Mezzo Piano (mp)

SOFT: Piano (p)

VERY SOFT: Pianissimo (pp)

GETTING LOUDER: Crescendo (cresc.) GETTING SOFTER: Diminuendo (dim.)



### D. Duration

The length of a sound.









### E. Texture

How much sound we hear.

THIN TEXTURE: (sparse/solo) - small amount of instruments or melodies.



THICK TEXTURE: (dense/layered) lots of instruments or melodies.

### F. Timbre or Sonority

Describes the unique sound or tone quality of different instruments voices or sounds.



Velvety, Screechy, Throaty, Rattling, Mellow, Chirpy, Brassy, Sharp, Heavy, Buzzing, Crisp, Metallic, Wooden etc.

### G. Articulation

How individual notes or sounds are

played/techniques.

LEGATO - playing notes in a long, smooth way shown by a SLUR.

STACCATO - playing notes in a short, detached, spiky way shown by a DOT.

### H. Silence

The opposite or absence of sound, no sound. In music these are RESTS.





### I. Notation

How music is written down.

STAFF NOTATION - music written on a STAVE (5 lines and spaces)





GRAPHIC NOTATION/SCORE - music written down using shapes and symbols to represent sounds.



### **Health and Well-being**











### What is health?

This is when a person is free from illness and disease. Exercising helps a person to be healthy as it makes our bones, ligaments, muscles and tendons stronger and therefore have a lower chance of getting injured. Illness can be prevented as blood cell production increases and therefore our bodies have a better chance to fight of disease using white blood cells.

### Why do we exercise?

There are lots of benefits to exercising; it helps us physically to become fitter and more healthy. It can also help us to have more social opportunities and also be better at dealing with emotional situations.

### What is well-being?

This is the state of being comfortable, content, healthy and happy. Exercise releases endorphins from the brain, which help to improve sleep patterns, energy levels and mood - these all have a positive effect on a person's wellbeing.

### What is a sedentary lifestyle?

This is a type of lifestyle with little or no physical activity. This lifestyle involves lots of sitting around, playing on games and mobile phones.

Changes in work due to increased technologies have led to some jobs also causing more sedentary lifestyles.

### Task

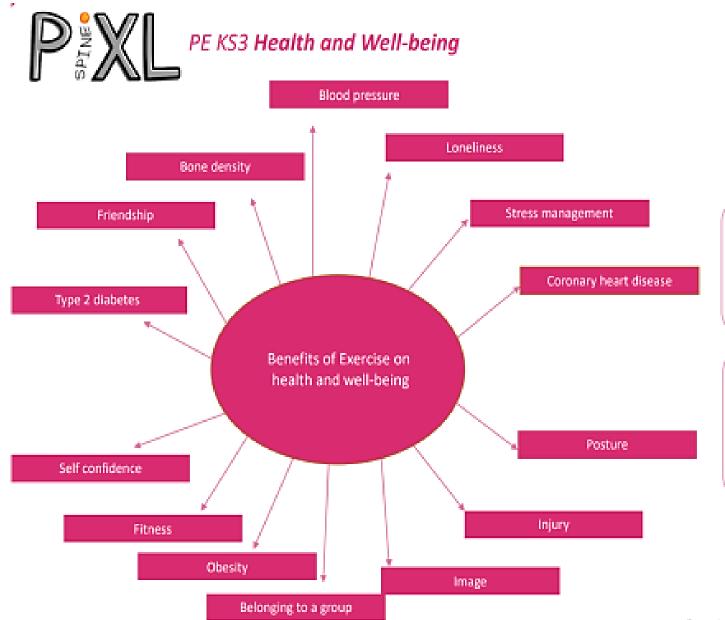
Write a newspaper article that outlines the benefits of sport and physical activity on a person's health and well-being.

Make sure you have a catchy headline to draw the reader's attention.

Use the internet to find some good facts and figures to support your writing.

PE KS3 Health and Well-being

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### Task

Separate all the key terms into three categories; physical, emotional and social.

Put the terms into a table explaining how exercise will help to benefit the factor.

Describe what would happen to each factor if a person did not exercise.

### Task

Think of 10 statements about a person's thoughts and feelings; for example, 'I have been feeling relaxed'. Rate yourself on a scale of 1 to 5 on how you have been feeling in the past 2 weeks (1 being very positive) on the statements you have written.

What can you do to change the negatives to a positive?

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### **Key Techniques**

Action Clip: Bring freeze frames to life in just a few moments.

Role on the Wall: A collaborative activity for developing thoughts and ideas about a character.

Marking the Moment: A dramatic technique used to highlight a key moment in a scene or improvisation.

Thought Tracking: A way to speak aloud the thoughts or feelings of a character in a freeze-frame.

Narration: A technique whereby one or more performers speak directly to the audience to tell a story, give information

**Tableaux:** Participants make still images with their bodies to represent a scene.

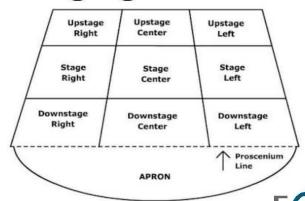
Freeze Frames: The use of body-shapes and postures to represent characters or objects.

Hot Seating: A character is questioned by the group about his or her background, behaviour and motivation.

Role Play: The ability to suspend disbelief by stepping into another character's shoes.

Cross-Cutting (also called split-screen): is a drama technique borrowed from the world of film editing, where two scenes are intercut.

### **Staging Positions**







### Physical Skills Vocal Skills

Body Language: Select appropriate use of body on stage, choosing to use the whole body or isolated parts of the body.

Facial Expression: Using the face to show mood, emotion, feeling and responses

Interaction With Other Performers: Where you work effectively to create a believable piece of drama for vour audience

Gesture: Use of hand movements to illustrate the action or the intent of a character

Posture: Stance or way of standing.

Communication

Pitch: The highness or lowness of a sound

Volume: How softly or loudly the dialogue (words) are spoken

Accent: Particular to a country/society/culture

Pace: The rate at which dialogue is spoken within a performance

Projection: The way in which the voice is used to reach every member of your audience

Pause: Where sound stops; how often and for how long

### **Technical Features**

Stage Make-up

Set Design

**Props** 

Lighting

Sound

**Stage Management** 

### 14. RELIGIOUS EDUCATION

### What does it mean for Christians to believe in God as Trinity?

The concept of the Trinity is that there are three 'persons', all of which are God. These three 'persons' are God the Father, God the Son and God the Holy Spirit.

### God the Father:

Christians believe that the first person of the Trinity is God the Father. The Lord's Prayer, a prayer that Jesus taught his disciples starts:

### 'Our Father, who art in heaven'.

God the Father is believed to be the creator of the earth and all living things on it. As creator of life, he acts as a good father would towards his children. He is believed to be omnipotent, benevolent and omniscient and omnipresent (present everywhere)

### God the Son

The second person in the Trinity is often referred to as the Son of God and became incarnate (embodied in human form) on earth. Christians believe that Jesus was both fully human whilst on earth and also fully God at all times.

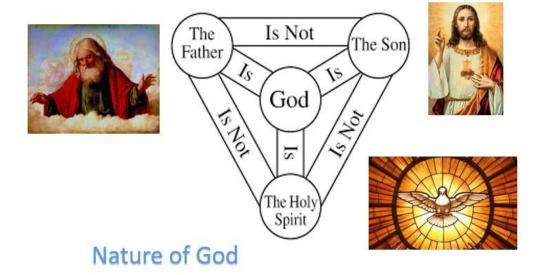
'He became incarnate of the virgin Mary and was made man'

### **God the Holy Spirit**

Christians believe that once Jesus had left the earth, God sent the Holy Spirit to influence, guide and sustain the earth and all life on it. The work of the Holy Spirit is believed to be the unseen power of God at work in the world in the past, present and future.

'By the power of the holy spirit'

### **RELIGIOUS EDUCATION**



Describing Word	Definition
Omnipotent	All Powerful
Benevolent	All Loving
Transcendent	Outside of Time and Space
Immanent	Working in the world
Omniscient	All knowing
Omnipresent	Always there

### Should Christians be greener than everyone else? [Creation]

### Creation Story found in the book of Genesis in the Bible



Keyword	Definition
Wonder:	marvelling at the complexity and beauty of the universe
Awe:	feeling of devout respect, mixed with fear or wonder.
Responsibility:	a duty to care for, or having control over something or someone.
Stewardship:	the idea that believers have a duty to look after the environment on behalf of God.
Dominion:	Dominance or power over something, having charge of something or ruling over it.

### Case Studies of ways that Christians can be stewards:



### The Assisi and Ohito Convention

Leaders from five different world religions were brought together in 1986 by the World Wildlife Fund, to celebrate its 25<sup>th</sup> anniversary. They met in Assisi to discuss how all faiths could care for the environment. Another meeting in Ohito in 1995 brought together religious leaders and environmentalist activists to continue this work.

### Pope Francis

Pope Francis challenged all humans to care for the world in an open letter to his Bishop's titled 'On the care of Our Common home'. He set out the need to tackle the challenge of pollution, poverty and climate change. He used St Francis of Assisi as a role model for Christians.

### **Hope Project:**

The Hope Project allows Christians to look after their local community. This means that they actively demonstrate their faith and show love of their neighbours by litter picking, tending to local gardens etc. They also protect God's creation by doing this. They actively live out the teachings of Jesus.



**RELIGIOUS EDUCATION** 

### Science KS3 Rocks

### Keywords

Rock cycle: Sequence of processes where rocks change from one type to another.

Weathering: The wearing down of rock by physical, chemical or biological processes.

Erosion: Movement of rock by water, ice or wind (transportation).

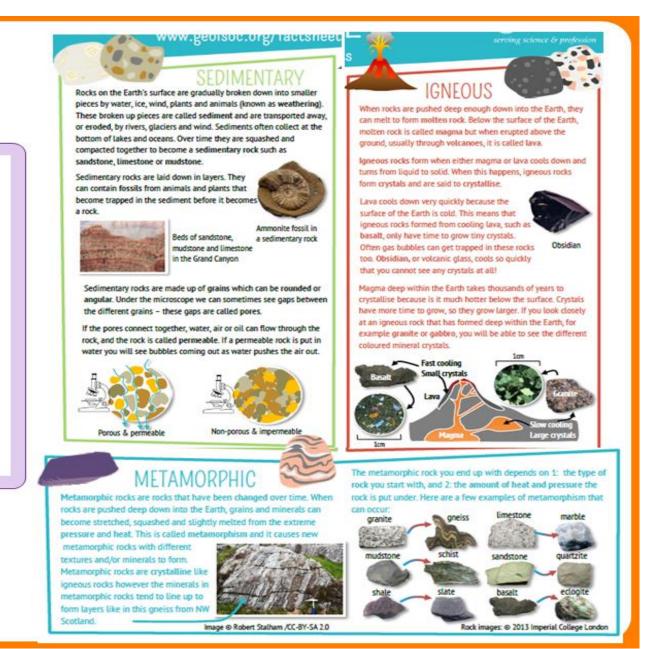
Minerals: Chemicals that rocks are made from.

Sedimentary rocks: Formed from layers of sediment, and which can contain fossils. Examples are limestone, chalk and sandstone.

Igneous rocks: Formed from cooled magma, with minerals arranged in crystals. Examples are granite, basalt and obsidian.

Metamorphic rocks: Formed from existing rocks exposed to heat and pressure over a long time. Examples are marble, slate and schist.

Strata: Layers of sedimentary rock.



### Science KS3 Organ Systems

### Keywords

Joints: Places where bones meet.

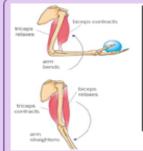
Bone marrow: Tissue found inside some bones where new blood cells are made.

Ligaments: Connect bones in joints.

Tendons: Connect muscles to bones.

Cartilage: Smooth tissue found at the end of bones, which reduces friction between them.

Antagonistic muscle pair: Muscles working in unison to create movement.



Muscles work in pairs called 'Antagonistic pairs'.

Muscles can only pull, these pairs work by one muscle contracting whilst the other relaxes.

The contracting muscle pulls the limb.

### Joints

A joint is a place in the body at which two bones meet



Cartilage

when moving - Protects the end of

- A soft tissue which

covers the end of bones - Reduces friction of

bones rubbing together

### Tendons Connect musde to bone

- Allow muscles to pull on
- bones for movement - Not elastic or stretchy



Types of Joints

Ligaments

bones in line

Connect bone to bone

- Allow movement in the

joint but keeps the

- Elastic or stretchy



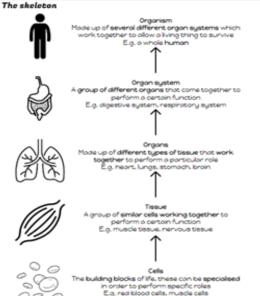






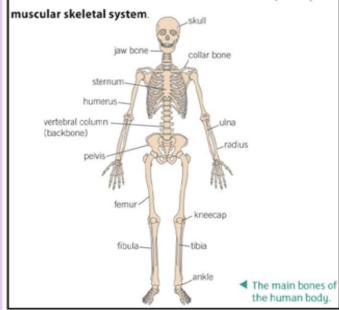






### What is a skeleton?

Together, all the bones in your body make up your skeleton. They are joined together to form a framework. The average adult human skeleton consists of 206 bones. Your skeleton is part of your







Produce

blood cells







Protect organs

Allows



### Science KS3 Speed and Motion

### Keywords

Speed: How much distance is covered in how much time.

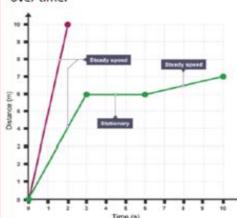
Average speed: The overall distance travelled divided by overall time for a journey.

Relative motion: Different observers judge speeds differently if they are in motion too, so an object's speed is relative to the observer's speed.

Acceleration: How quickly speed increases or decreases.

### Distance Time Graphs

A distance time graph is a useful way to represent the motion of an object. It shows ho the distance move from a starting point changes over time.



If the line is horizontal, the object is stationary (because the distance stays the same). If the line is a straight diagonal, the object is moving at a constant speed.

The steeper the line, the greater the gradient and the greater the speed.

E.g. Calculate the speed of the green line for the first 3s.

Speed = Distance ÷ Time

Speed = 6m ÷ 3s

Speed = 2m/s

The speed of an object tells you how fast or slow it is moving. You can find the average speed of an object if you know the distance it has travelled and the time taken to travel that distance.

The equation is:

Speed(m/s) = Distance(m) + Time(s)

$$V = \frac{S}{t}$$

E.g. A car travels 100m in 20s. Calculate the speed of the car.

Speed = Distance + Time

Speed = 100m + 20s

Speed = 5m/s

### Unbalanced Forces

If more than one force act along a straight line, the resultant force can be found by adding (acting in the same direction) or subtracting (acting in opposite direction) them.

100 - 60 = 40 N (to the right)



### Contact & Non-Contact Forces

All forces between objects are either:

Contact Forces - The objects are physically touching Non-Contact Forces - The objects are physically separated.

Contact: Friction, Air Resistance, Tension, Normal Contact

Non-Contact: Gravitational, Electrostatic, Magnetic

### Keywords

Solvent: A substance, normally a liquid, that dissolves another substance.

Solute: A substance that can dissolve in a liquid.

Dissolve: When a solute mixes completely with a solvent.

Solution: Mixture formed when a solvent dissolves a solute.

Soluble (insoluble): Property of a substance that will (will not) dissolve in a liquid.

Solubility: Maximum mass of solute that dissolves in a certain volume of solvent.

Pure substance: Single type of material with nothing mixed in.

Mixture: Two or more pure substances mixed together, whose properties are different to the individual substances.

Filtration: Separating substances using a filter to produce a filtrate (solution) and residue.

Distillation: Separating substances by boiling and condensing liquids.

Evaporation: A way to separate a solid dissolved in a liquid by the liquid turning into a gas.

Chromatography: Used to separate different coloured substances.

### Science KS3 Separating Mixtures

### Mixtures

Mixtures are made up from more than one type of atom or compound and are not chemically bonded

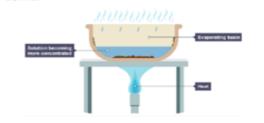
It is hard to separate the different substances of a mixture - they do not need a chemical reaction.



The substances which make up a mixture are not in a fixed ratio. The substances which make up a compound keep the same properties even when they are in a mixture.

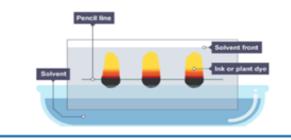
### Evaporation:

- A method used to separate a soluble solid from a liquid.
- A solution is placed in an evaporating basin and heated with a Bunsen Burner.
- The water will begin to evaporate and solid particles will begin to form in the basin.
- Once the water has evaporated, it will leave solid crystals behind.



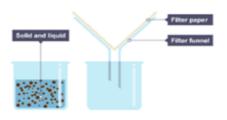
### Chromatography:

- Paper chromatography is a method for separating dissolved substance from one another. Often used when the dissolved substance are coloured such as inks, food colouring or plant dyes.
- A pencil line us drawn on the paper, and spots of ink are placed on the line.
- There is a solvent usually water or ethanol in a container/beaker.
- The paper is lowered into the solvent. The solvent travels up the paper, taking some of the substances with it.
- As the solvent travels up the paper, the different coloured substances are spread apart.

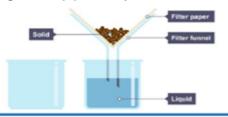


### Filtration:

 A method for separating an insoluble solid from a liquid.
 A beaker containing a mixture of insoluble solid and liquid. There is filter paper in a filter funnel above another beaker.



- The mixture if insoluble solid and liquid is poured into the filter funnel.
- The liquid particles are small enough to pass through the paper as a filtrate. The solid particles are too large to pass through the filter paper and stay behind as the residue.



### Science KS3 Breathing and Circulation

### Keywords

Breathing: The movement of air in and out of the lungs.

Trachea (windpipe): Carries air from the mouth and nose to the lungs.

Bronchi: Two tubes which carry air to the lungs.

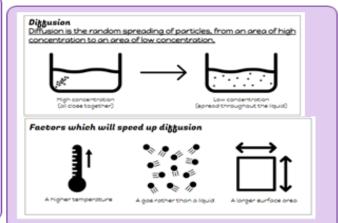
Bronchioles: Small tubes in the lung.

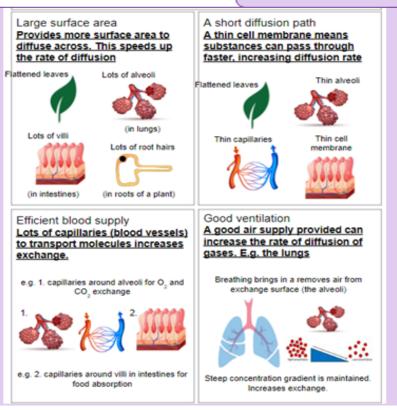
Alveoli: Small air sacs found at the end of each bronchiole.

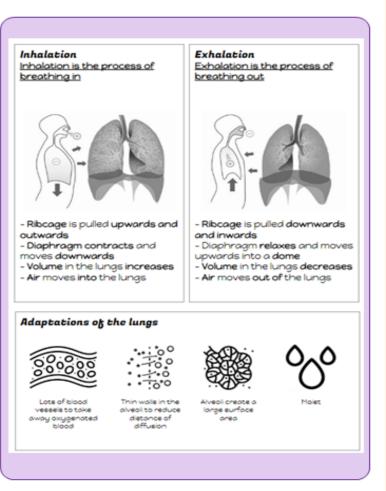
Ribs: Bones which surround the lungs to form the ribcage.

Diaphragm: A sheet of muscle found underneath the lungs.

Lung volume: Measure of the amount of air breathed in or out.







### Knowledge Organiser - Español - Year 7- Learning Circle 1.1 - Vocabulario

Saludos	Greetings	uno	1
¿Cómo te llamas?	What's your name?	dos	2
Me llamo	My name's	tres	3
¿Y tú?	And you?	cuatro	4
iHola!	Hellol	cinco	5
iAdiós!	Goodbye!	seis	6
iHasta luego!	Bye!	siete	7
Buenos días.	Good morning.	ocho	8
Buenas tardes.	Good afternoon.	nueve	9
Buenas noches.	Goodnight.	diez	10
¿Qué tal?	How are things?	once	11
¿Cómo estás?	How are you? (tú, informal)	doce	12
¿Cómo está usted	?How are you? (formal)	trece	13
Fenomenal.	Great.	catorce	14
Bien.	Fine.	quince	15
Regular.	So-so.	dieciséis	16
Mal.	Bad.	diecisiete	17
iFatal!	Terrible!	dieciocho	18
		diecinueve	19
En mi mochila	In my school bag	veinte	20
¿Tienes un/una/	Have you got a/	veintiuno	21
unos/unas?	any?	veintidós	22
Tengo un/una/	I've got a/some	veintitrés	23
unos/unas		veinticuatro	24
No tengo (un/una	/I haven't got	veinticinco	25
unos/unas)	(a/any)	veintiséis	26
una agenda	a diary	veintisiete	27
un bolígrafo	a biro	veintiocho	28
una carpeta	a file	veintinueve	29
un cuaderno	an exercise book	treinta	30
un diccionario	a dictionary	treinta y uno	31
un estuche	a pencil case	OLD COMMON TO SERVICE OF THE SERVICE	
una goma	a rubber		enes? How old are you?
un lápiz	a pencil	Tengo años.	I'm (years old
los lápices	pencils	Tiene años.	He/She is (years old).
un libro	a textbook	¿Cuándo es tu	When is your
una pluma	a fountain pen	cumpleaños?	birthday?
una regla	a ruler	¿Cuándo es su	When is his/her/its/
un sacapuntas	a pencil sharpener	cumpleaños?	your (formal) birthday?
		Mi cumpleaños es	
2011		el de	the of



el de	birthday is the
	of
el primero (uno) de	the first of
iFeliz cumpleaños!	Happy birthday!
mi .	my
tu	your
su his/her/	/its/your(formal)
Los meses	The months
enero	January
febrero	February
marzo	March
abril	April
mayo	May
junio	June
julio	July
agosto	August
septiembre	September
octubre	October
noviembre	November
diciembre	December
Los días de la semana	The days of the
lunes	Monday

lunes	Monday
martes	Tuesday
miércoles	Wednesday
jueves	Thursday
viernes	Friday
sábado	Saturday
domingo	Sunday
En clase	In the classroom
la alumna	pupil (female)
el alumno	pupil (male)
los deberes	homework
el ejercicio	exercise
la mesa del profesor/	teacher's desk
de la profesora	
la pizarra	the board
la puerta	the door
la silla	the chair
la ventana	the window

Abrid los libros. Open your books. Escribid en los Write in your exercise cuadernos. books. Escuchad la cinta. Listen to the tape. Levantaos. Stand up. Mirad la página ... Look at page ... Mirad la pizarra. Look at the board. Sentaos. Sit down. iSilencio, por favor! Silence, please! Tira el chicle en Put your la papelera chewing gum in the bin. Trabajad en el Work on the ordenador computer. Voy a pasar lista. I'm going to take the register. Déjame ..., por favor. Please could I have ... Me hace falta ... I need ... Necesito ... I need ... Toma/Tome (Ud/Uv). Here you are. ¿Cómo se escribe? How do you spell it? ¿Cómo se escribe tu How do you spell nombre? Your name? Se escribe ... It's spelt ... ¿Cómo se dice ... en How do you say español? ... in Spanish? I don't understand. No comprendo. Can you repeat that? ¿Puedes repetir?

Numbers

Los números

Su cumpleaños es His/Her/Its/Your

# Español Circle -Gramática

# HOW TO SAY "A", "AN"

book)	Un cuaderno (a	Masculine
ruler)	Una regla (a	Feminine

## HOW TO SAY "SOME"

Feminine		Masculine Un	
Una goma	cuaderno	Un	Singular
<b>Unas</b> gomas	cuadernos	Unos	Plural

## HOW TO SAY "THE"

Las mesas	La mesa	Feminine
Los libros	El libro	Masculine
Plural	Singular	

HOW TO

SAY "MY"

"YOUR"

"HIS",

"HER"

**⋣ 3**.

your (informal)

my

his, her, its, your (formal)

OT WOH	HOW TO SAY "TO HAVE"
Tener	To have
Tengo	I have
Tienes	You (tú, informal)
	have
Tiene	He/she/it has
	You (usted, formal)
	have
Tenemos	We have
Tenéis	You (pl) have
Tienen	They have

# HOW TO SAY "TO BE"

10 W	IO SAY IO DE
Ser	To be
Soy	I am
Eres	You (tú, informal)
	are
Es	He/she/it is
	You (usted, formal)
	are
Somos	We are
Sois	You (pl) are
Son	They are

TU AND USTED

There are two ways of saying you in Spanish: tú for friends, people your own age and children; usted (Ud/Vd) for adults and people you don't know.

¿Y túz	¿Cómo estás?	¿Cómo te llamas?	ż
ćy usted>	¿Cómo está?	¿Cómo se llama?	usted (Ud, Vd)

## Knowledge Organiser Español - Year Vocabulario Learning Cycle 1.2

			We		
Los países	Countries	cubano/a	Cuban	Soy hijo único/a	I'm an only child
Australia	Australia	escocés/escocesa		Somos gemelos/as	We are twins
España	Spain	estadounidense	American	madre/padre?	mother's/
Estados Unidos	United States	galés/galesa	Welsh		
Gales Trlanda	England	inglés/inglesa	English	Mi madre/padre se llama	: llama My mother/father's
Jamaica	Jamaica	jamaicano/a			name is
México	Mexico	mexicano/a	Mexican	Mis padres se	My parents' names
Nigeria	Nigeria	nigeriano/a	Nigerian	llaman	are
¿De dónde eres?	Where are you from?	puertorriqueño/a	Puerto Rican		names?
Soy (de)	I'm (from)			¿Cómo se llaman	What are your
¿Dónde vives?	Where do you live?	Los idiomas Lan	es	tus hermanos?	brothers'/brothers'
Vivo en		¿Qué idiomas hablas?		John a Haman	and sisters' names?
כם מומב אואב (אומובנים	Ji live?	Hablo	I speak	tus hermanas?	sisters' names?
(Mateo) vive en	(Mateo) lives in	alemán	German	Mis hermanos se llaman	
¿Dónde viven (Arturo	z		Catalan		names are
y Susana)?	Susana) live?	español	Spanish	Mis hermanas se	My sisters' names
(Arturo y Susana) viven en	(Arturo and Susana)	galés	rrench Welsh	llaman	are
La nacionalidad	Nationality	italiano	English Italian	¿Tienes un animal	Have you got a
¿Cuál es tu	What nationality are	-	Have y		pet?
nacionalidad?	you?	-			I've got
cEres 2	Are you ?	Tengo un nermano.	Tengo un hermano. I ve got a prother. Tengo una hermana. I ve got a sister.	un cobavo	a quinea bia
argentino/a	Argentinian	Tengo (tres) herm	Tengo (tres) hermanas. I've aot (three) sisters.	un cone io	a rabbit
australiano/a	Australian	No tengo hermana	No tengo hermanos. I don't have any	un gato	a cat
chileno/a	Chilean	_	brothers or sisters.	un pájaro	a bird
un perro a	a dog	un pez aris	a fish arev	un ratón ¿De qué color son	a mouse What colour are
		marrón	brown	tus o jos?	your eyes?
	pigs	negro/a	black	Tengo	I've got
dos conejos ti		rojo/a	red	Tiene	He's/She's got
	two cats	verde	green	los ojos azules	blue eyes
Š		Mis gatos son	My cats are	los ojos marrones	brown eyes
	is.	amarillos/as	yellow	los ojos negros	black eyes
		atigrados/as	tabby	los ojos verdes	green eyes
	two mice	azules blancos/as	white	lengo pecas.	I've got treckles.
Es arande T	Olses	donados/as		l levo bioote	Tive got a moustache
/a.	It's small.	marrones	brown	Llevo gafas.	I wear glasses.
	Ģ.	negros/as	black	Lleva	He/She wears
s/as.	=		1000 H0000 V000	¿Cómo eres?	What are you like?
¿Cuántos αños tiene? How old is it?		los ojos y el pelo		:	I'm
		¿De qué color es tu	In is		He/She/It is
un animal.	ot a pet.	pelo?	~		tall
Es geniai.	IT'S great.	Tiene	Lve got He's/She's got	de talla mediana	snort medium height/size
		el pelo castano	brown hair		white
or es	colour is your	el pelo negro	black hair	Ω	dark
10 ESAS		el pelo pelirrojo	red hair		black black
: :	:	el pelo conto	about boin	pelirrojo/a	fair
atianado/a to	yellow el	el pelo corto	long hair	Mi hermano vive	my brother lives
		pelo liso	straight hair	Mi perro es	my dog is
	60	el pelo ondulado	wavy hair	•	
dorado/a g	gold  el	l pelo rizado	curly hair		

# Learning Cycle Gramática

### **ADJECTIVES**

and plural forms. Adjectives agree with the noun they describe, so they have masculine, feminine

El gat <u>o</u> blanc <u>o</u>	Los gatos blancos
La gat <u>a</u> blanc <u>a</u>	Las gatas blancas
For some exceptions, the masculine and the feminine endings are the same	the feminine endings are the same

Plurals

La perr<u>a</u> grand<u>e</u> El perro grande

Los perr<u>os</u> grand<u>es</u> Las perr<u>as</u> grand<u>es</u>

a consonant, add es. To form of the plural of a noun, you usually add  ${f s}.$  However, if the noun ends in

El ratori pequen <u>o</u>	Los ratories pequen <mark>os</mark>
Note also:	
El pe <b>z</b> dorad <u>o</u>	Los pec <u>es</u> dorad <u>os</u>

# MOH TO SAY "MY", "YOUR", "HIS", "HER"

Singular	Plura	
mi	mis	my
tu	tus	your (informal)
SU	sus	his, her, its, your (formal

### **VERBS**

	Son		Sois		Somos			ቪ		Eres	Soy		SER
are	They	are	You (pl)		We are		it is	He/she/		You are	I am	0 000 WESSER	38 OT
	Hablan		Habláis		Hablamos			Habla		Hablas	Hablo		HABLAR
speak	They	speak	You (pl)	speak	We	speaks	iŧ	He/she/	speak	You	I speak	SPEAK	T0
	<		<		<			<		<	<		<
	Viven		Vivís		Vivimos			Vive		Vives	Vivo		VIVIR
live	They	live	You (pl)		We live		/it lives	He/she		You live	I live	LIVE	70
	S		0	=	7			S		_	>	т	_
	Se llaman		Os llamáis	llamamos	Nos			Se llama		Te llamas	Me llamo		LLAMARS
called	They are	called	You (pl) are		We are called		called	He/she/it is		You are called	I am called	CALLED	TO BE

Te llamas	Me llamo	LLAMARS E
You are called	I am called	TO BE CALLED

### 17. TEXTILES

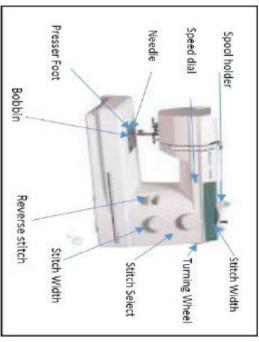
Research – Mood board and consumer research, culture

Block printing, masking tape printing and masking tape printing





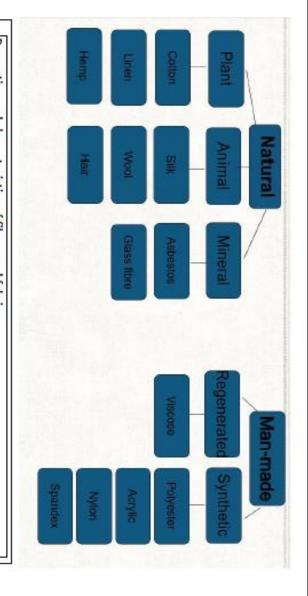
lealth and safety	
on:	Sewing Machine:
O talking whilst using iron	No talking whilst using sewing
to distracting others when using	machine
S,	No distracting others when using
to touching base of iron either	sewing machine
then on or off	Sew at a safe speed
to not use iron around water	Turn off machine if a problem
Inplug iron when not in use	occurs
tand iron on platform when not	Never try to mend machine
nuse	Never use sewing machine unless
to not walk around with the iron	supervised by a teacher
quipment:	General:
to not stick pins or needles in skin	Do not run in dassroom
o not point or wave around	Do not act dangerously
cissors	Follow instructions given by
to not point or wave around	teacher
npicker	No shouting
to not use dyes or chemicals	100000000000000000000000000000000000000
vithout permission	



Pins		Scissors/shears	Sewing Machine	Needle	Thread	Tailors chalk	Fabric	Unpicker
a piece of metal with a point	together	Used for cutting fabric	A machine used to produce stitches in fabric	a piece of metal with a point at one end and a hole or eye for thread at the other, used in sewing	a strand of cotton, used in sewing or weaving	Chalk used to mark fabric	Cloth produced by weaving or knitting textile fibres.	A small piece of equipment with a sharp pointy end used to unpick stitches
Stitch		Sew/Sewing	Tacking	Hem	Seam	Seam Allowance	Pattern	Components
A thread that passes	en out	Done by machine of hand to join fabric or add decoration	Temporary stitching to hold fabric in place	The finishing off at the edge of fabric	Joining two fabrics together	Distance between the edge of fabric and the stitching line (1.5 cm)	A template used to cut out the fabric	Buttons, zips, sequins
Tie dye		Applique	Reverse Applique	Embroidery	Design	Annotation	Evaluation	Specification
Resist method of dying-	elastic bands around areas of the fabric.	Applying 1 fabric to another to create a design	cutting away a layer of fabric to reveal a shape appliqued underneath	Decorative stitching by hand or machine	A drawing to show the look of your idea	Labelling to explain your design	Making a judgement about your product	A list of requirements that a product must meet

Year 7 Textiles -Knowledge Organiser

# Classification of Fibres



Properties and characteristics of fibres and fabrics.

is known as properties and characteristics Fabrics and fibres behave in different ways this can be good or bad thing, the way they behave

cheap, environmentally friendly. Good properties- strong, absorbent, comfortable, hard wearing, drapes well, does not crease,

Bad properties- expensive, creases easily, shrinks, burns easily, bobbles, itchy, weak when takes a long time to dry.

# **Properties of Natural Fibres**

Natural Fibre	Properties	Uses
Cotton	Strong, absorbent, cool to wear, hard wearing, creases easily, easy to care for	Clothing, soft furnishings
Wool	Warm, absorbent	Warm outer wear e.g. jumpers, carpets, blankets, soft furnishings
Silk	Comfortable to wear, soft, absorbent, expensive, natural Luxury clothing and furnishing sheen	Luxury clothing and furnishing

coal. Polyester, nylon and acrylic are synthetic fibres. Nylon was the first synthetic fibre to Synthetic fibres are all man-made from organic polymers, made by refining crude oil or from wood, that are chemically processed. Viscose and rayon are regenerated fibres filament fibres. Regenerated fibres are made from natural materials, such as cellulose Synthetic fibres and regenerated fibres are manufactured. All manufactured fibres start as be created from chemicals obtained from crude oil.