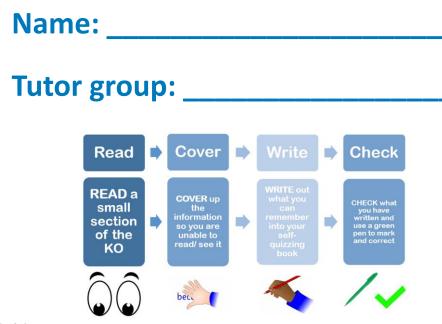






Year 7

Knowledge Organiser: Cycle 2



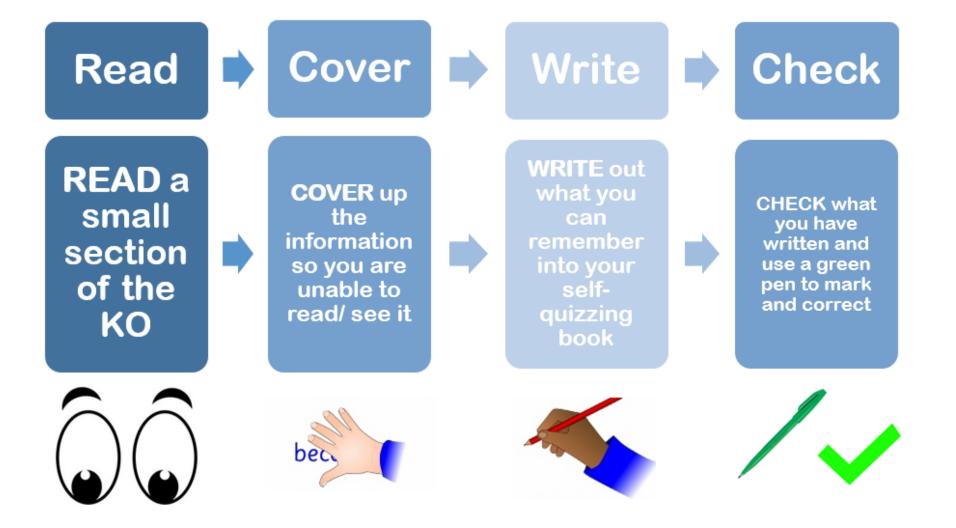
Article 29: Education must develop every child's personality, talents and abilities to the full. UNCRC

- Knowledge Organisers contain critical knowledge you must know. This will help you recap, revisit and revise what you have learnt in lessons in order to remember this knowledge for the long-term.
- You must have this book for every lesson it is part of your equipment.

Using Your Knowledge Organiser for Revision

- Students remember 50% more when they test themselves after learning.
- You can use your book to help **memorisation**.
- **Read** a section of your Knowledge Organiser.
- Cover it up.
- Write out what you've remembered.
- **Check** the Knowledge Organiser to see if you're right.
- Repeat this process.
- Do this every day to help commit the information to your long-term memory.

How to Use the Book for Self-Quizzing



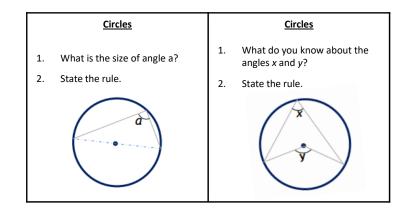
Using Your Knowledge Organiser for Revision

Research shows that students remember 50% more when they test themselves after learning something.

You can use your 100% book to create **<u>flashcards</u>**.

These should be:

- double-sided
- a question on one side, the answer on other
- a keyword on one side, a definition or image on the other
- used for self-testing.



| Q1 What is <u>emulsion</u> ? Oil, water, droplet, shake, immiscible, bond, mixture. | Q2 What is <u>one similarity</u> between an <u>alkene</u> and an <u>unsaturated</u> fat? |
|--|--|
| Q3 What is the name for the <u>test</u> for <u>unsaturated fat</u> or <u>alkene</u> ? Describe what you would <u>see</u> . | Q4 Describe two ways that <u>saturated</u> fat and <u>unsaturated fat (</u> oil) are <u>different</u> . |
| Q5 What is <u>the</u> <u>advantage</u> of cooking food in <u>oil</u> ? <u>Explain</u> your answer. | Q6 <u>Describe</u> what an <u>emulsifier</u> molecule does. |
| Q7 Name the <u>two</u> <u>parts</u> of an <u>emulsifier</u> molecule. | Q8 What is the difference between a <u>monounsaturated</u> fat and <u>polyunsaturated</u> fat? <u>Mono</u> = one <u>Poly</u> = many |

Feedback

Your teachers will give you feedback about your learning and progress in many different ways. These will include:

- Verbal feedback about something you are working on in the lesson (practical or written work).
- Verbal feedback through asking questions.
- Guided independent self-assessment.
- Guided peer assessment.
- Instant/quick written comments or identification of SPAG errors on your work as you complete it.
- Written feedback on your work and setting R4 or extension questions for you to complete.
- Knowledge quizzing/short tests that give you a score (i.e. 15/20).
- Longer tests that may also give a score (i.e. in %) as well as feedback about the content you need to re-learn/refresh.

You will be expected to respond to feedback in the following ways:

- ✓ Correcting all SPAG errors and copying out spellings as directed by your teacher.
- Answering R4 questions and completing extension questions/tasks in green pen.
- ✓ Giving peer feedback when it is expected by the teacher, using the format provided.
- ✓ Setting yourself targets when required, to ensure that you keep developing your knowledge and skills.
- ✓ Focusing on the areas of knowledge that you need to learn and quizzing yourself on these for homework.
- ✓ Showing that you take pride in your work by presenting it neatly.
- ✓ Always asking for help if you don't understand the work or what to do.

The Literacy Mat

Connectives

Adding Ideas

Furthermore, in addition, similarly, also, and, too.

Evaluating

Consequently, surprisingly, significantly, interestingly, unexpectedly.

Showing Difference But, however, on the other hand, although, whereas, alternatively, arguably.

Listing Firstly, secondly, last, then, next, finally.

Common Mistakes

| Correct Capital Letters |
|---------------------------|
| To start EVERY |
| sentence. |
| For 'l' (as in 'l went'). |
| For ALL names. |
| Film/book names. |

Convert Constal Lattons

Film/book names. NeVeR To be uSed RanDomLy!

Great Big Nevers!

Gonna – going to Ain't – am not We/they was – we were Gotta – have got to Innit –isn't it Gotten – got Coz/'cause – because <u>Would HAVE' vs 'Would OF'</u> NEVER use '**of**' after a modal verb:

'Would <u>have</u>' **NOT** 'would of' 'Could <u>have</u>' **NOT** 'could of' 'May <u>have</u>' **NOT** 'may of' 'Should <u>have</u>' **NOT** 'should of' 'Might <u>have</u>' **NOT** 'might of'

<u>Homophones</u>

To/too – I went to school (towards). I ate too much (more than enough). I am happy too (also). Their/there/they're – They're (they

are) over there (that place) reading their (belonging to them) books. **Your/you're** – Your work is great (belonging to you). You're awesome (you are).

Correct Sentences

<u>Simple Sentence</u> - must contain a verb and a subject. ^{subject} <u>Matt was</u> very cold today. <u>verb</u> <u>L</u> always <u>eat</u> breakfast in the morning

<u>Compound Sentence</u> - two simple sentences joined by a connective. I tried to speak slowly <u>but</u> I was far too excited. Dan is very organised <u>and</u> he always helps others.

<u>Complex Sentence</u> - contains a simple sentence and one or more 'subordinate clauses' (extra information!).

subordinate clause

When he handed in the homework/the teacher knew he had worked hard on it. comma She told a joke; which was hilarious, to her friends. subordinate clause

comma

Proof Reading

Follow this checklist when proof-reading or editing your work, especially assessments!

- 1. Check your presentation: Underline your date, title and any subtitles. Check that your work is laid out in paragraphs.
- 2. Skim read: Make sure capital letters and full stops are 100% accurate.
- 3. Skim read again: Check that your complex sentences have accurate commas.
- 4. Skim read again: Check the spelling of words you are not sure about (neighbour/dictionary/teacher/literacy mat).
- 5. Read a final time but carefully: Do **ALL** of your sentences make sense? Is there a better, clearer way of explaining/describing something?

Apostrophe Rules

1. Contractions

The apostrophe is put in the place of missing/omitted letters: 'I will' becomes 'I'll' / 'should not' becomes 'shouldn't' etc.

2. Possession

If something belongs to someone, we put an apostrophe, then an 'S': Toby's football / The dog's collar / The door's handle. But if the name already ends in an 'S', you just put an apostrophe: Chris' guitar / Jess' book / Mr Jones' classroom.

3. Plural Possession

If something belongs to a group, we just put an apostrophe at the end. The class' whiteboard / The boys' shoes.

4. It's vs Its

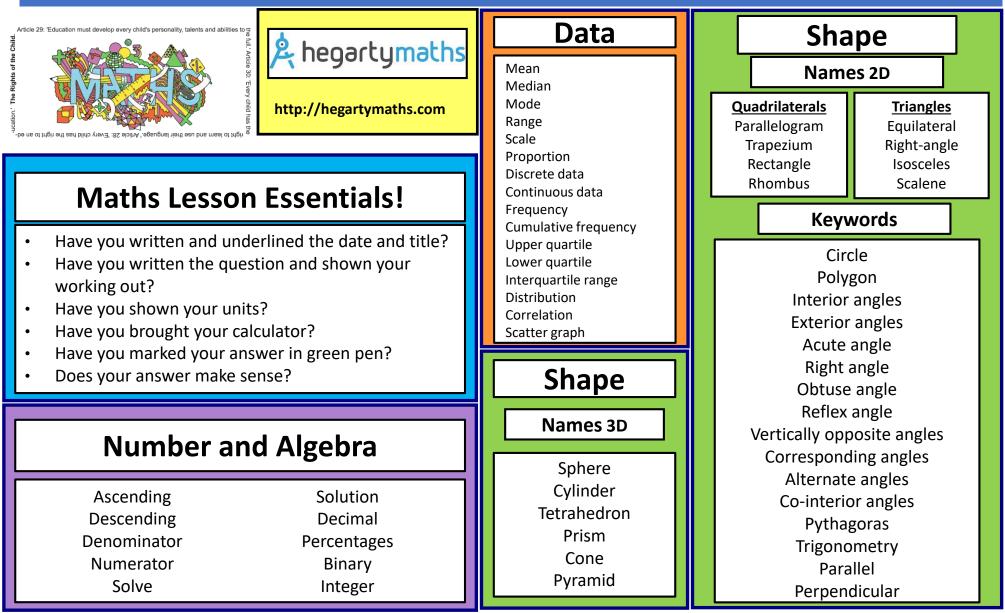
'It's' should ONLY have an apostrophe if it is being shortened from 'it is'. NEVER for possession: Its legs were long and hairy.

Never use an apostrophe for plurals! Carrot's / Ball's / CD's

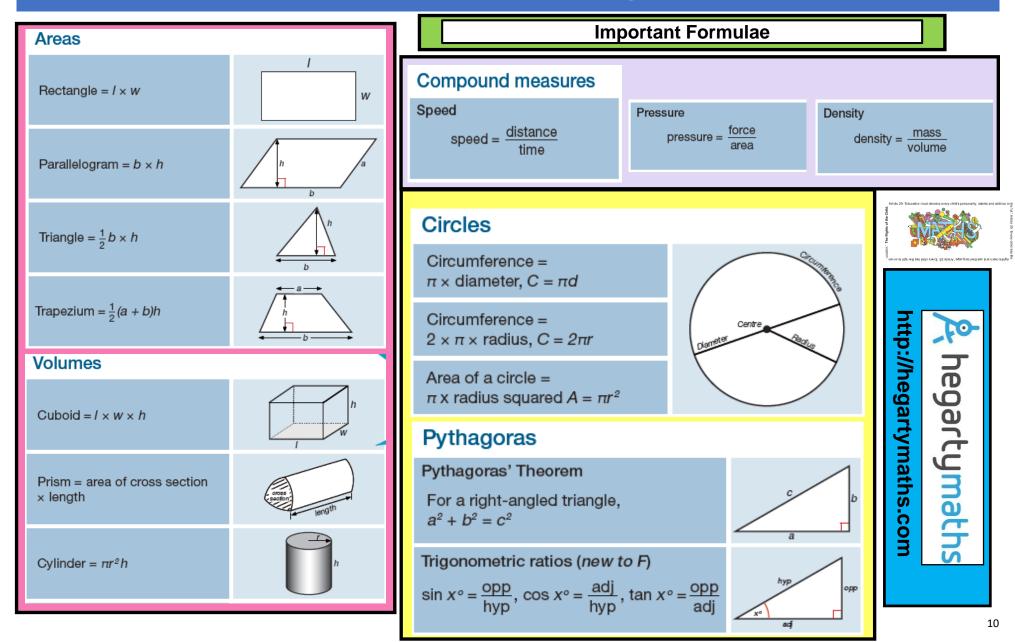
The Literacy Mat: Common Spellings

| accommodation | daughter | improvise | performance | soldier |
|------------------|-----------------|---------------|---------------------|---------------|
| actually | decide/decision | industrial | permanent | stomach |
| alcohol | definite | interesting | persuade/persuasion | straight |
| although | design | interrupt | physical | strategy |
| analyse/analysis | development | issue | possession | strength |
| argument | diamond | jealous | potential | success |
| assessment | diary | knowledge | preparation | surely |
| atmosphere | disappear | listening | prioritise | surprise |
| audible | disappoint | lonely | process | survey |
| audience | embarrass | lovely | proportion | technique |
| autumn | energy | marriage | proposition | technology |
| beautiful | engagement | material | questionnaire | texture |
| beginning | enquire | meanwhile | queue | tomorrow |
| believe | environment | miscellaneous | reaction | unfortunately |
| beneath | evaluation | mischief | receive | Wednesday |
| buried | evidence | modern | reference | weight |
| business | explanation | moreover | relief | weird |
| caught | February | murmur | remember | women |
| chocolate | fierce | necessary | research | |
| climb | forty | nervous | resources | |
| column | fulfil | original | safety | |
| concentration | furthermore | outrageous | Saturday | |
| conclusion | guard | parallel | secondary | |
| conscience | happened | participation | separate | |
| conscious | health | pattern | sequence | |
| consequence | height | peaceful | shoulder | |
| continuous | imaginary | people | sincerely | |
| creation | | | | |

Maths Core Knowledge



Maths Core Knowledge



Science Core Knowledge

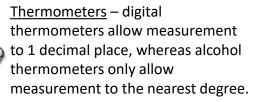
1. How Science Works Keywords

| Keyword | Definition |
|----------------------|--|
| Evidence | A set of data that proves a prediction or hypothesis. |
| Hazard | Something that could be dangerous. |
| Risk | Chance of something dangerous happening. |
| Prediction | Something you think will happen. |
| Hypothesis | Why you think something will happen. |
| Variables | Something that changes. |
| Independent variable | The variable that is changed or controlled in an experiment to test the effects on the dependent variable. |
| Dependent variable | The variable being tested and measured in an experiment. |
| Control variable | Something that is constant and unchanged during the experiment. |
| Repeatability | Closeness of repeats of results to each other. |
| Reproducibility | Agreement of results from different groups testing the same factor. |
| Accuracy | Closeness of a measured value to a standard or known value. |
| Precision | Closeness of two or more measurements to each other. |
| Reliability | The degree to which the result of a measurement can be depended on to be accurate. |

2. Key Equipment



<u>Measuring cylinders</u> – 10 ml cylinders will allow measurement to the nearest 0.1 ml. 100 ml cylinders will allow measurement to the nearest 1 ml.





<u>Quadrats</u> – are used to do sampling and find the amount of a species in a certain area. Quadrats are placed onto the ground.



<u>Metre ruler</u> – used in multiple investigations in the lab. Allows us to measure to the nearest cm.



<u>Measuring tape</u> – used in sampling alongside the quadrat. Placed onto the ground to make a transect line to measure against.

Science Core Knowledge

| 3. Graphing, Analysis and Evaluation Keywords | | | Distance | Number | Mean | | |
|---|---|--|--|---------|-------------------------|-----------------|----------------------|
| Keyword | Definition | Example | from lamp to beaker | minute) | | | number of bubbles |
| Hypothesis | An educated guess based on what you already know. | The rate of photosynthesis will increase as the lamp moves closer to the beaker. | (cm) | m) | | | |
| | | | | Trial 1 | Trial 2 | Trial 3 | |
| Independent Variable | The variable that can be changed by the scientist, it is the cause. Found on the <i>x</i> -axis. | Distance from lamp to beaker (cm) | 10 | 15 | 14 | 15 | 14.6 |
| Dependent Variable | The variable that the scientist observes, it is the effect. Found on the <i>y</i> -axis. | Number of bubbles (per minute) | 20 | 7 | 7 | 7 | 7 |
| Control | The variables that must always be kept the | Temperature, the size of the pond weed, amount of | 30 | 7 | 7 | 6 | 6.7 |
| Variable | same | water | 40 | 1 | 2 | 1 | 1.3 |
| Line of Best Fit | A line that goes roughly through the middle of all the scatter points on a graph. | The red line on the graph above shows the line of best fit for the data plotted | 50 | 0 | 0 | 0 | 0 |
| Calculations | Use the correct equation to be used based on the variables of the experiment. Use correct units. | Calculation for mean of number of bubbles per minute: Trial 1 + Trial 2 + Trial 3 ÷ 3 15 + 14 + 15 ÷ 3 = 14.6 | 20 | of P | igatin hotos | - | |
| Results Analysis | Identify patterns in data. Describe what the table and graph show. | As the lamp is getting closer to the beaker, more bubbles are produced. | 15 minute | • | < <hr/> | | |
| Conclusion | Answer your original question. State whether or not the hypothesis was supported. | The results prove that the rate of photosynthesis is effected by the distance of the light source. As the lamp was moved closer to the baker, more bubbles were produced. | Number of Bubbles (Per minute) Dependent Variable | | • | | |
| Evaluation | Suggest an improvement for the equipment used. Suggest an improvement for the method used.Use an LED lamp. Measure the volume of produced. | Use an LED lamp. Measure the volume of oxygen produced. | er of Buk Depende | 0 | 20 ce from La | 40 mp to Bea | 60 aker (cm) |
| | | |] mbe | | Independe | - | |
| | | | NC | | | | |

Art Vocabulary **Practical Skills Visited** Stretch/Further Reading Skills Colour Tone – Darks and lights and everything in Colour Drawing The colour wheel – deepening knowledge and between 1. Complete drawings of anything from ability to confidently mix primaries and real life each week, focussing on the Primary colours – Red, yellow and blue: cannot secondaries actual shape. be created by mixing other colours together 2. Complete some 'blind contour' Drawing Secondary colour – 2 primary colours mixed drawings. Mark-making together in equal amounts - green, purple and https://www.bing.com/videos/search?q=blind Basic shapes/accuracy of outline shapes +coltour+drawing&&view=detail&mid=645E01 orange Tone – shading from dark to light and directional 0C9DA18F675865645E010C9DA18F675865&& shading Portrait – An artwork focussing on a person's FORM=VDRVRV Portrait basic – proportions face. 3. See how many different tones/shaded Painting you can get out of an HB pencil **Proportion** – The size things are in comparison Colour mixing, blending, directional to each other brushstrokes. 4. Find out about traditional African Art. a. How is Moroccan Art different from the **Blending** – Mixing colours or tones together Printing Art of Kenva? Mono – printing Charcoal – Burnt willow sticks used to create b. How was Picasso influenced by African very black dramatic lines and shadows Art? 3D 5. If possible, visit the British Museum in Clay – basic intro – rolling/joining, pinch pot etc. **Texture** – The way something feels to the touch London - or showing this through the way you draw or Photography https://www.bing.com/videos/search?q=britis

Photography for recording ideas – basic editing on phones

Literacy

To be able to explain ideas, and reflect on your own work.

To be able to write about an artwork, describing it in detail using the model 'form, content, process, mood.'

paint something, e.g. through mark making

Form – The 3D shape of something

Natural forms – Objects that are natural, e.g. leaves, seedpods fir cones shells

Still life – A group of objects arranged together in a particular way

h+museum+african+art&view=detail&mid=2A EAAA6B885C5075FC092AEAAA6B885C5075FC 09&FORM=VIRE

Artists

Find out about the following artists:

- Van Gogh
- Matisse
- Paul Klee
- Picasso

Computing – The Computer

| | Keyword | Definition – Add from Bitesize |
|-----------------------|--|--|
| Hardwa | ire | |
| Softwar | re | |
| Periphe | eral | |
| Mother | board | |
| CPU | | |
| Spreads | sheet Software | |
| Web Br | owser | |
| Database Software | | |
| Presentation Software | | |
| Word P | rocessing Software | |
| | | Homework Checklist for first term |
| 1 | Get ahead | https://www.bbc.com/bitesize/topics/zmpsgk7 |
| 2 | Idea Badges | Teamwork, The Art of Selling, Researcher Digital Research |
| 3 | Keywords from KO | You could also use <u>https://quizlet.com</u> to practice |
| 4 | Extension work Cyber Spies, Build your own – <u>https://www.computerplanet.co.uk/</u> How much? | |

Performance (Drama and Dance)

Drama Techniques

1

2

- 1 **Ensemble:** This is a French word for group. Working as an ensemble means working or moving or talking together as a chorus.
- 2 **Characterisation:** Creating a character that is different from yourself by using a combination of vocal and physical drama skills.
- 3 **Soundscape:** Building up a serious of sounds, noises, words or rhythms to create an atmosphere or create the impression of a particular setting, e.g. a storm at sea.
- 4 **Mime:** Silently using your body language and gesture to act like you are doing something but without props.

Drama Techniques

- **Choral speaking:** Talking at once as an ensemble/chorus. Also known as 'speaking in unison'.
- **Choral movement:** Moving at once as an ensemble/chorus. Also known as 'moving in unison'.



Dance: Creating and Developing a Motif

- 1 Using actions, space, dynamics and relationship content.
- 2 Choreographic devices to manipulate movement such as repetition, unison, canon and contrast.
- 3 Choreographic process to include research, improvisation, refinement and development.



Dance Physical and Expressive Skills

- 1 **Flexibility**: The range of movement in the joints (involving muscles, tendons and ligaments).
- 2 Balance: A steady or held position achieved by an even distribution of weight.
- 3 **Stamina**: Ability to maintain physical and mental energy over periods of time.
- 4 **Strength**: Muscular power.
- 5 **Focus**: Use of the eyes to enhance performance or interpretative qualities.
- 6 **Projection**: The energy the dancer uses to connect with and draw in the audience.
- 7 **Musicality**: The ability to make the unique qualities of the accompaniment evident in performance.
- 8 **Safe Practice**: To include warm up and appropriate clothing.

| | | | English | | | |
|---------------------|--|------------------------|--|--------------------------------|--|--|
| | Keywords | Lai | nguage Devices | Parts of Speech | | |
| Evidence | the use of information to | Simile | Comparing two objects using 'as' or | Noun | People, places, things | |
| | prove a point that you are making | Metaphor | 'like' to create imagery Comparing one thing to another by | Adjective | Describes a noun | |
| Quotation | a selection of words or | | saying it is something else | Adverb | Tells you how, when, where or why something is being done | |
| | phrases taken, word for word, from a text | Personification | Giving inanimate objects human properties | Verb | Describes an action | |
| Fiction | writing that describes | Pathetic fallacy | When you give human emotions to nature (specifically the weather) to | Pronoun | Works as a noun and indicates other people in the discussion | |
| | imaginary events and people, e.g. <i>Private Peaceful</i> | | create atmosphere | Connective | A word used to connect clauses or ideas together | |
| Non-fiction | writing that describes people's opinions or | Alliteration | Words in a passage / sentence that begin with the same sound. | Preposition | Usually used in front of nouns or pronouns and they show the | |
| | information on facts and reality, e.g. a newspaper | Onomatopoeia | Words that sound like the sounds they are describing | | relationship between the noun or pronoun and other words in a | |
| Identify | to pick out a specific piece of information from a text | Semantic field | A group of words that suggest a theme / topic | sentence Rhetorical Devices | | |
| Inference (noun) | a thought or opinion about a text that is formed by looking | | uctural Devices | Rhetorical question | Asking a question that gets the reader to consider or do something. Used to emphasise a key point. | |
| Infor (vorb) | at the evidence | Sequence | the order of events in a text (opening, middle, end) | Direct | Directing a statement clearly to the | |
| Infer (verb) | to have a thought or opinion about a text, formed by | Flashback / flash- | an interruption of the story to describe a past or future event | address | reader / audience using the pronoun 'you'. | |
| | looking at the evidence | forward | | Tripartite | When you list three actions or descriptions in a sentence. | |
| Explicit | obvious, specific or clear | Past and present tense | identifying whether the events are happening now, or if they have already | sequence Inclusive | Use of 'us' / 'our' etc. to make the | |
| Implicit | suggested, not openly stated, an educated guess | Narrative | happened writing in the first person ('1'), second | pronouns | audience feel included and therefore more likely to agree. | |
| Analysis | the close examination of a | viewpoint | person ('you'), or third person (he, she, it, names) | Hyperbole | Exaggerated or over the top language. | |
| (noun) Narrator | text the person telling the story | Foreshadowing | Hints about what might happen later in the speech | Facts / statistics | A statement that is known or proven to be true. | |
| | , , , | | | Opinions | A view or judgement of something that someone could disagree with. | |
| Perspective | the views and opinions of the writer | | | Repetition | Words or phrases repeated across a text for emphasis.16 | |

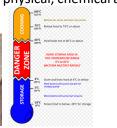
Food Preparation and Nutrition

Keywords

Bacteria – A single celled organism that can cause food poisoning.

Contamination types - physical, chemical and





Cross contamination – When bacteria travels using equipment or food to a different source.

High risk food – Those most likely to encourage bacterial growth e.g. meat, poultry, fish and dairy.

Danger zone – The temperature range in which bacteria thrives.

Ambient temperature – Normal room temperature

Processes and Techniques



Bridge Hold

Claw Hold

The Eatwell Guide

Tips for healthy eating:

- 1. Base your meals on starchy food
- 2. Eat lots of fruit and vegetables
- 3. Eat more fish
- 4. Cut down on saturated fat and sugar
- Try to eat less salt not more than 6 g a day
- 6. Drink plenty of water
- 7. Don't skip breakfast







Electronic scales using for measuring ingredients, e.g. flour, butter, sugar

Measuring jug used to measure liquid ingredients, e.g. water, milk, oil

Macronutrients

Macronutrients are needed by the body in large amounts.

Carbohydrates

- Provides the body with energy.
- Most of our energy should come from complex starchy food.
- One third of your diet should come from starch foods.
- If the diet contains more carbohydrates than the body needs, it will turn into fat and be stored in the body.

Fats

- Animal fats are usually saturated (solid) and vegetable fats are usually unsaturated (liquid).
- Saturated animal fats have been linked to increased cases of heart disease.
- Fat provides us with energy.
- It keeps the body warm.
- It protects and cushions internal organs by covering them.

Protein

- Essential for growth, repair, maintenance and energy.
- High biological value (HBV) proteins come from animals.
- Low biological value (LBV) proteins come from mainly plant foods.

Food Preparation and Nutrition – Recipes

FRUIT SALAD

- 1 apple
- 1 orange
- 5 grapes
- Some berries
- 1 kiwi

a small carton of fruit juice (orange/apple)

a plastic container, with your name on it, to take your fruit salad home in

FAIRY CAKES

100 g self raising flour 100 g butter/margarine 100 g caster sugar 2 eggs 12 cake cases

FRUITY BISCUITS

75 g caster sugar 225 g plain flour 150 g butter

ROCKY ROAD

250 g digestive biscuits
150 g milk chocolate
150 g dark chocolate
100 g butter
150 g golden syrup
100 g chopped dried apricots
75 g raisins







PASTA IN TOMATO SAUCE

200 g pasta shapes 2 tbsp oil 1 small onion 1 clove garlic 1 small tin tomatoes 1 tbsp tomato puree 1 tbsp mixed herbs 50 g grated cheese



OPTIONAL INGREDIENTS: 1 red/green pepper, 1 courgette, 6 mushrooms

TOMATO AND BASIL TART

1 packet of readymade short curst pastry 2 tomatoes 50 g cheese, e.g. mozzarella, gruyere, cheddar handful of basil leaves 2 eggs 125 ml semi-skimmed milk black pepper



MUFFINS

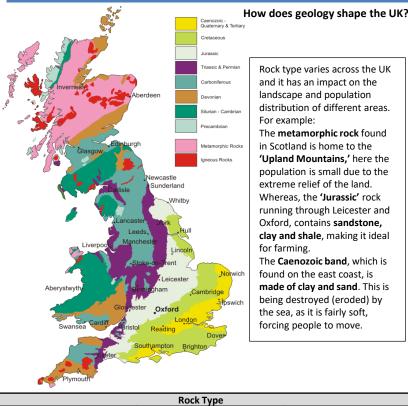
240 ml milk
125 ml sunflower or vegetable oil
2 medium sized eggs
250 g plain flour
100 g sugar
2 heaped tsp baking powder
muffin cases



| LEARN VOCA | AB | | Fr | ench | | | ΒU | ILD SEN | NTENCES |
|-------------------------|-----------------------|---|---------|--|--------------------------|-------------|-----------------|-------------------|--------------|
| Family Members | | Verb Phrase | es (pr | esent tense) | Activities | | | | |
| Ma mère est | My mum is | Dans ma famille, il y a | | In my family, there is | Regarder la télé | | | watching TV | |
| Ma grand-mère a | My grandma has | D'habitude je porte | 1 | Usually I wear | Faire des magasins | | | shopping | |
| Ma soeur (cadette) | My (younger) | Je <u>ne porte jamais</u> | | l <u>never</u> wear | Lire des ma | gazines | | reading magazines | |
| n'aime pas | sister doesn't | Je veux porter | | want to wear | cuisiner | | | cooking | |
| | like | Mon animal préféré est | | My favourite animal is | Faire du pat | inage | | skating | |
| Ma belle-soeur | My step-sister | Je préfère | | l prefer | | nusculation | | weight-lif | ting |
| n' <mark>est</mark> pas | isn't | Verb Phra | | iture tense) | Jouer de la | batterie | | playing th | ne drums |
| Ma demi-soeur | My half-sister | Je voudrais avoir | l wo | uld like to have | Avoir = | to have | | | = to be |
| aime | , likes | Je vais avoir | l'm o | going to have | J'ai | I have | Je | suis | I am |
| Ma tante adore | My aunt loves | Il sera | | ll be | Tu as | You have | т., | | Venera |
| Un(e) bon(ne) | A good friend is | | | | il / elle a | He/ she | | es | You are |
| ami(e) est | | | Anima | als | | has | | elle est | He/ she is |
| Ma meilleure amie | By best (girl) | Un poisson (rouge) | | a (gold) fish | On a | We have | | est | We are |
| est | friend is | Un chien (gris) | | a (grey) dog | lls/elles | They | - | /elles | They are |
| | | Un chat (roux) | | a (ginger) cat | ont | have | SO | nt | |
| Mon père me dit | My dad says that | Un oiseau (jaune) | | a (yellow) bird | Adjectives (personality) | | |) | |
| que | wiy dad says that | Une (petite) souris | | a (small) mouse | On me dit qu | ue je suis | | • | ll me l'm… |
| Mon grand-père a | My grandad can't | Des lapins (noirs et blan | cs) | some (black and | Marrant(e) | | | funny | |
| horreur de | stand | | | white) rabbits | Gentil(le) | | | kind | |
| Mon frère (aîné) a | My (older) brother | (| Clothir | ng | Bavard(e) | | chatty | | |
| une passion pour | has a passion for | Un pantalon (noir) | | (black) trousers | Agaçant(e) | | annoying | | |
| Mon oncle | My uncle hates | | | | Fort(e) | | strong nice | | |
| déteste | wry uncie nates | Un jean (moulant) | | (skinny) jeans | sympa | Adjective | s (a | ppearance) | |
| mon meilleur ami | My best friend is | Un tee-shirt (blanc) | | a (white) t-shirt | Beau / belle | | -3 (a | | e/ beautiful |
| s'appelle | called | Une robe (verte) | | a (green) dress | mignon(ne) | | | cute | |
| | | Des baskets (blanches) | | (white) trainers | Grand(e) | | big/ tall | | |
| Les cheveux bruns | nd Eyes brown hair | Core Questions Petit(e) | | | small / sh | ort | | | |
| Les cheveux courts | short hair | 1) Décris ta famille. Describe your family. | | De taille moyenne | | of average | e height | | |
| Les cheveux bouclés | curly hair | 2) Tu es comment? What are you like? | | Intensifiers (make your language more int | | | e interesting!) | | |
| Les cheveux ondulés | wavy hair | 3) Qu'est-ce que tu aimes? | | What do you like doing? | Un peu | | | a bit | |
| Les yeux verts | green eyes | 4) As-tu des animaux? | | Do you have any pets? | très | | very | | |
| Les yeux marron | brown eyes | 5) À l'avenir, quel animal voudrais-tu avoir? | | Which animal would you like to have in the future? | assez | | | quite | |
| Les yeux bleus | blue eyes | | | | | | | | 19 |

Geography

retaceou



| | | Cenczoic | |
|----------------------|---|-----------|----|
| | | | с |
| | | | |
| cross the UK | | Mesozoic | |
| ct on the | | | |
| oulation | | | |
| erent areas. | | | Ca |
| | | | - |
| rock found | | Paleozoic | |
| e to the | | | |
| 1s,' here the | | | |
| l due to the | | | _ |
| he land. | l | | L |
| assic' rock | | 1 | _ |
| eicester and | | | |
| andstone | | | |

Oxford, contains sandstone, clay and shale, making it ideal The Caenozoic band, which is found on the east coast, is made of clay and sand. This is being destroyed (eroded) by

| | Rock Type | | 2. Biological weathering – the breaking down of rocks by | | | |
|-----------------------------|--|------------------------------|--|--|---------------------------------|--|
| Igneous | Sedimentary | Metamorphic | plant roots or borrowing animals. 3. Chemical weathering – causes an alteration to the | | | |
| | | | | emical composition of rock due to a eeze thaw – water freezes in cracks a | | |
| Formed by volcanoes | Formed on the seabed | Rock that is heated – not | th | en thaws and so on. | | |
| Often contain crystals | Contains rocks such as chalk and clay | melted Contains slate and | 5. | Onion skin – as the sun shines on rocks during the day it causes them to expand. During the | Your case study specific inform | |
| Examples – Basalt / Granite | | marble | | night the rock contracts due to | | |

How do we use different rocks?

Sedimentary rock gives limestone is used mainly in the manufacture of Portland cement, the production of lime, manufacture of paper, petrochemicals, insecticides, linoleum, fiberglass, glass, carpet backing and as the coating on many types of chewing gum. Metamorphic rock gives marble is used for building materials and artwork. Marble is beautiful for statues and decorative items such as vases. Ground up marble is also a component of toothpaste, plastics and paper.

Igneous rock gives granite is used in buildings, bridges, paving, monuments and many other exterior projects. Indoors, polished granite slabs and tiles are used in countertops, tile floors, stair treads and many other design elements.

The Earth is thought to be 4,600 million years old. Life is believed to have become dominant on earth 542 million years ago.

The geological periods relate to events that have happened in the Earth's history. For example, during the carboniferous period there were tropical weather conditions in the UK and coal and limestone were formed.

The most recent period in geological time is called the **quaternary**, when the Ice Age occurred. Rocks are formed at different times and are a result of the environment present during that time. For example, chalk is formed in the cretaceous period, as this is when warm tropical seas were present around the shores of the UK.

Era – An era is a length of geological time that can vary in length – the Palaeozoic was much longer than the Mesozoic.

Eras are subdivided into shorter lengths of time known as periods.

The rock cycle:

- 1. Rock on the Earth's surface is broken down into stones, sand and clay by weathering. It is known as sediment.
- 2. The sediment can enter rivers and will be eroded and transported by the river.
- 3. The river drops the sediment on the ocean floor. This builds up on the ocean bed. Over time the weight causes the sediment to be compacted, leading to sedimentary rocks forming.
- 4. Further weight pushes the sedimentary rocks downwards into the Earth's crust. Heat and pressure change this into metamorphic rock.
- 5. The metamorphic rock gets buried further and gets so hot it melts to form magma.
- 6. Overtime the magma rises up and begins to cool to form **igneous** rock. Some of this magma shoots out of volcanoes, cooling on the surface.
- 7. In time the igneous rock on the Earth's surface is weathered down to form sediment and the process repeats.

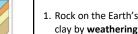
5. **Onion skin** – as the sun shines on rocks during the day it causes them to expand. During the night the rock contracts due to the colder temperature. Over time this continued process causes small pieces of surface

6. Solution – where acidic rain is able to dissolve rocks, e.g. limestone.

Your case study on the impacts of a guarry. You must remember your place specific information!

Advantages – in extraction of rock, distribution and supporting local shops and cafes, providing alternative jobs to farming in rural areas and offering opportunities for young people, providing an essential resource – cement for building. A quarry will normally try to reduce any problems that it creates, e.g. re-planting trees, adding new habitats, using solar energy etc.

Disadvantages – visual impact due to the presence of a large hole in the ground and the presence of spoil heaps, the impact of noise via blasting, transport via large lorries or trains, air pollution and the presence of dust; the loss of wildlife habitats.



- Weathering Is the process whereby rocks are broken
- chemical composition of rock due to a reaction. 4. Freeze thaw - water freezes in cracks and expands, then thaws and so on.

down by the action of things in the environment, such as;

the temperature (hot / cold), gases in the air (acid rain)

1. Mechanical weathering - the breaking of rock into

smaller pieces without any change in its chemical

and plants and animals (roots of trees).

nature.

- rock to flake off.

LEARN VOCAB **BUILD SENTENCES** German Haustiere – Pets **Regular Present Tense Verbs** Meine Familie = My Family Der Goldfisch Goldfish Wohnen = To Live **Meine Mutter** My mother **Der Hamster** Hamster wohne I live Ich My grandmother Meine Grossmutter Der Hund Dog Meine Oma My gran wohnst You live **Der Vogel** Bird du Meine Schwester My sister Der Wellensittich **Budgerigar** wohnt He/she lives er/sie Meine Stiefschwester My step sister Die Katze Cat Meine Halbschwester My half sister wohnen we/ they live **Die Maus** Mouse wir/sie Meine Tante My aunt **Die Schlange** Snake Ich spiele = I play Meine Cousine My cousin (f) Die Schildkröte Tortoise Ich tanze = I dance **Das Pferd** Horse My father Mein Vater Ich sehe fern = I watch TV Rabbit Das Kaninchen Mein Grossvater My grandfather Ich simse = I text Das Guinea pig Mein Opa My grandad Ich fahre rad = I ride my bike Meerschweinchen Mein Bruder My brother Ich gehe ins Kino = I go to the cinema Mein Stiefbruder My step brother Ich habe kein I have no **Describing Someone** Mein Halbbruder My half brother Haustier pet Mein Onkel My uncle sie / er hat..... = he/she has..... Hast du ein Do you have Mein Cousin My cousin (m) schwarze/braune/blonde/rote Haare = Haustier? a pet? black/brown/blond/red hair Meine Eltern My parents

How to say what pet you have:

Ich habe einen + masculine noun Ich habe eine + feminine noun Ich habe ein + neuter noun

Use keinen / keine / kein to say what pet you don't have

kurze/lange/mittellange Haare= short/long/mid length hair blaue/braune/grüne/graue Augen = Ich habe zwei Brüder blue/brown/green/grey eyes sie / er ist..... = he/she is... dick/schlank = fat/thin frech/niedlich = cheeky/cute gemein/süß = mean/sweet gross/klein = big/small kräftig/schlau = strong/cunning

Meine Grosseltern

Ich habe zwei

Ich bin Einzelkind

Ich habe keine

Geschwister

Schwestern

Hast du Geschwister?

My grandparents

I have 2 brothers

I am an only child

I have no siblings

I have 2 sisters

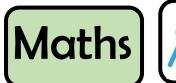
Do you have

siblings?

History – Challenges to the Crown

| Key Cont | Key Content | | epts | Key Dates | | |
|--|---|--|---|---|---|---|
| Роре | Head of the Catholic Church and therefore very important. | Revolt | To violently challenge authority. | 1154-1189 | Henry II ruled England. | |
| | | Challenge to the crown. | To test the authority of the King or Queen. | 1162 | Thomas Becket appointed Archbishop of | |
| Murder of Thomas Becket | Becket was murdered following a challenge to the power of the Church by Henry II. | Change | Differences over a period of time. | 1170 | Canterbury. Thomas Becket was murdered. | |
| Divine Right | The belief that God has chosen who should be king therefore no | Continuity | What stayed the same over a period of time. | 1348 | The Black Death reached England. | |
| Crusade | one should question this. A series of military expeditions | Cause | Things that lead to another event. | 1377-1399 | Richard II ruled England. | |
| | made to Europeans to recover the holy lands in the Middle East. | Consequence | Things that happened because of an event. | 1381 | The Peasant's Revolt. | |
| Black Death | The plague that spread throughout England in 1348. | Useful links: | | 1199-1216 | King John ruled England. | |
| | | | | 1215 | The signing of the Magna Carta. | |
| Poll Tax | A tax that was introduced to pay for the war with France. | | | Key Individuals | | |
| Peasants | A rebellion led by peasants | <u>cket.htm</u> | , <u> </u> | Henry II | Was the king of England between 1133 and 1189. | |
| | | <u>c2pv4/revision/1</u> | | | Thomas Becket | Was made Archbishop of Canterbury and then murdered by Henry II's soldiers in 1170. |
| Labourers | increase in the wages for peasants after the Black Death. | | | Richard II | Became King in 1387 and was 14 when the Peasants revolt took place. | |
| The signing | A document created to make | | youtube.com/watch?v=wW | Wat Tyler and John Bull | • | |
| of the Magna Carta | sure that all people follow the law including the King. | KTv1Nlv7E | | King John | Known as 'soft sword' and 'lackland'. Was forced to sign the Magna Carta. | |
| Peasants revolt Statute of Labourers The signing of the | for the war with France.A rebellion led by peasants demanding greater rights.A law created to stop an increase in the wages for peasants after the Black Death.A document created to make sure that all people follow the | cket.htm https://www.l c2pv4/revision https://www.l gqtfr/revision, https://www.v | n <u>/1</u> bbc.com/bitesize/guides/zq / <u>1</u> | Henry II Thomas Becket Richard II Wat Tyler and John Bull | Was the king of England between and 1189. Was made Archbishop of Canter and then murdered by Henry II's soldiers in 1170. Became King in 1387 and was 14 the Peasants revolt took place. Leaders of the Peasants revolt age the king. Known as 'soft sword' and 'lacklastic | |

Maths



Maths & hegartymaths

| Year 7 Cycle 2 |
|----------------|
|----------------|

http://www.hegartymaths.com

| | | | | | | | integer by another |
|--|------------|--|--|--|---|--|---|
| | | Fractions as Part o | of a Whole | | | Numerator | The 'top' number of a fraction |
| Equivalent fract | nu | ou must multiply or divide the numerator and denominator by the same $\frac{1 \times 3}{2 \times 3} = \frac{3}{6}$ | | | Vinculum | A horizontal line that separates the numerator and denominator in a fraction | |
| Simplify fractions Divide both the numerator and the denominator by the highest common factor. $\frac{18 \div 6}{24 \div 6} = \frac{3}{4}$ | | | Denominator | The 'bottom' number of a fraction | | | |
| Fractions as a Value (+/-) | | | | | Equivalent Fractions | Fractions that represent the same value | |
| Adding/subtract fractions | ing | You must have a common denomina Find the LCM of the denominators. Use equivalent fractions to change ec common denominator. | .CM of the denominators. alent fractions to change each fraction to the | | $\frac{\frac{2}{3} - \frac{1}{5}}{\text{LCM of 3 and 5 is 15}}$ $\frac{\frac{2}{3} \times \frac{5}{5} = \frac{10}{15} \text{ and } \frac{1}{5} \times \frac{3}{3} = \frac{3}{15}}{\frac{1}{5}}$ | | Fractions where the highest common factor of the numerator and denominator is 1 |
| | | Add or subtract the numerators and keep the denominators the same. | | $\frac{1}{3 \times 5} - \frac{1}{15}$ C So, $\frac{10}{15}$ - | $\frac{3}{15} = \frac{10 - 3}{\frac{15}{15}}$ | Highest Common Factor | The largest factor that is common to 2 or more integers |
| Fre | actions as | a Value (Comparing) | Fro | ctions as an Opera | $=\frac{7}{15}$ | Lowest Common Multiple | The first multiple to appear in the times tables of 2 or more integers |
| Comparing You must | | have a common denominator. | Finding fractions of | Divide the value by the | | Improper Fraction | A fraction where the numerator is larger than the denominator |
| nactions | Ascending | g means smallest to largest. ng means largest to smallest. | amounts | denominator. Multiply the answer by the numerator. | | Mixed Number | A number formed of an integer part and a fraction part |

| | Converting |
|-------------------------------------|---|
| Mixed numbers to improper fractions | Multiply the denominator by the integer. Add the numerator to the answer. This is your new numerator. The denominator stays the same. |
| Improper fractions to mixed numbers | 23 |

Key Vocabulary A whole number

A mathematical expression representing the **division** of one

Integer Fraction

Maths

| | Basic Rules of Algebra | | | | | | Key Vocabulary | | |
|--|--|---|--|--|---|---|--|--|--|
| Simplifying Expressions | mplifying Expressions Collect like terms. Be careful with negatives. $2x + 3y + 4x - 5y + 3 = 6x - 2y + 3$ | | -5y + 3 = 6x - 2y + 3 | Variable | represent a nu | . A letter used to umber, these can take any | | | |
| $x \times x$ | The answer | is x^2 not $2x$ | Squaring is | Squaring is multiplying by itself, not by 2 | | | value. | | |
| $p \times p \times p$ | The answer | is p^3 not $3p$ | If <i>p</i> = 2, the 6 | If $p = 2$, then $p^3 = 2 \times 2 \times 2 = 8$ not $2 \times 3 = 2$ | | Expression | Made up from numbers and/or letters representing unknown values where there is no equals symbol. | | |
| p + p + p | The answer | is $3p \operatorname{not} p^3$ | If <i>p</i> = 2, the | en 3 <i>p</i> = 2 | $2 + 2 + 2 = 6$ not $2^3 = 8$ | Terms | The separate | parts of expressions. For | |
| | | Expanding and Fac | ctorising | | | | example in 5x terms: 5x, + 3y | x + 3y - 4 there are three y and $- 4$. | |
| Expanding a single bracketTo expand a bracket, multiply each term in the bracket by the expression outside the bracket. $3(m+7) = 3m + 3m$ | | 3(m+7) = 3m + 21 | Coefficient | | in front of the variable. in 6 <i>x</i> the coefficient of <i>x</i> is | | | | |
| FactoriseThe reverse of expanding.Factorising is writing an expression as a product of terms by a out' a common factors. Do this by dividing each term by the | | - | 6x - 15 = 3(2x - 5) where 3 is the highest common factor | | | e same variable. For x and 5 <i>x</i> are all like terms. not like terms. | | | |
| | | Substitution | | | | BIDMAS | | | |
| Y | | s for words in an equation. Whe s follow BIDMAS. | - | | | BIDMAS | An acronym that tells you the order in which to do operations. | | |
| $3a$ y^2 | | $3 \times a$ $y \times y$ | If $a = 5$, $3a = 3$ If $y = 7$, $y^2 = 7$ | | | В | Brackets | | |
| 2 <i>x</i> ² | 2 × | $x^2 = 2 \times x \times x$ | If $x = 9$, $2x^2 =$ | 2 × 9 > | | I | Indices | Also known as 'powers'. | |
| | | Structule and Charl | lawaa | | | D | Division | With strings of multiplication and | |
| | Stretch and Challenge 5x By collecting like terms, give an | | | | | M | Multiplication | division or addition and subtraction, work from | |
| Can you make your o involving fractions a | - | $\frac{5}{12}$ $5x$ | $\frac{2}{3}$ | express | ion for the perimeter of the gle in its simplest form. | A | Addition | left to right. | |
| | | $(2x + \frac{1}{6})$ | | | | \$ Subtr | | | |

Music

| | Keyword | s |
|-------------|---------|-------------------------------|
| Dynamics | Symbol | Definition |
| Fortissimo | ſſ | Very Loud |
| Forte | ſ | Loud |
| Mezzoforte | mf | Moderately Loud |
| Mezzopiano | mp | Moderately Quiet |
| Piano | P | Quiet |
| Pianissimo | PP | Very Quiet |
| Crescendo | \leq | Becoming gradually louder |
| Decrescendo | > | Becoming gradually quieter |
| Tempo | <u></u> | Definition |
| Lento | Slowly | |
| Largo | Slow ar | nd stately |
| Adagio | Leisure | ly |
| Andante | At a wa | alking pace |
| Allegro | Fast | |

Musical Instrument Families

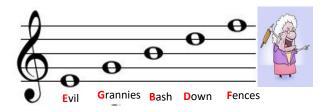
Very Quickly

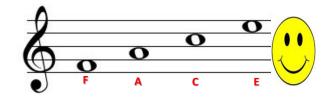
Lively

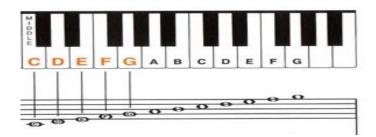
Vivace

Presto

| Woodwind Flute Clarinet Oboe Saxophone Bassoon | <u>Brass</u> Trumpet French horn Trombone Tuba | |
|---|--|--|
| <u>Strings</u> | <u>Percussion</u> | |
| Violin | Timpani | |
| Viola | Piano | |
| Cello | Glockenspiel | |
| Double Bass | Xylophone | |









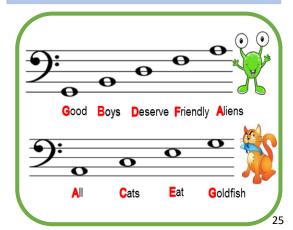
Semi-quaver – ¼ Beat



Rhythm Rehearsal Guitar

Stretch and Challenge

Listen to the following piece of music. Would you be able to identify each instrument of the orchestra if you heard it again? 'Peter and the Wolf' by Prokofiev https://www.youtube.com/watch?v=9u eGfjBKbiE



Physical Education

Sports

Invasion Netball Handball Basketball Football Rugby Hockey



Dribbling

Tackling

Catching

Throwing

Kicking

Balancing

Travel

Vaulting

Landing

Rotation

Striking

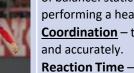
Hitting

Catching

Throwing

Stopping





Components of Fitness

Balance – the ability to maintain centre of mass over a base of support. There are two types of balance: static balance and dynamic balance. A gymnast uses static balance when performing a headstand and dynamic balance when performing a cartwheel.

<u>**Coordination**</u> – the smooth flow of movement needed to perform a motor task efficiently and accurately.

<u>Reaction Time</u> – the time taken for a sports performer to respond to a stimulus and the initiation of their response.

<u>Agility</u> – the ability of a sports performer to quickly and precisely move or change direction without losing balance or time.

Power – the product of strength and speed. Expressed as the work done over a unit of time. **Muscular Endurance** – the ability of the muscular system to work efficiently, where a muscle can continue contracting over a period of time against a light to moderate fixed resistance load.

<u>Muscular Strength</u> – the maximum force (in kg or N) that can be generated by a muscle or muscle group.

Aerobic Endurance – the ability of the cardiorespiratory system to work efficiently, supplying nutrients and oxygen to working muscles during sustained physical activity. Flexibility – having an adequate range of motion in all joints of the body; the ability to move a joint fluidly through its complete range of movement.

Speed – distance divided by the time taken. Speed is measured in metres per second (m/s). The faster an athlete runs over a given distance, the greater their speed.

STRETCH AND CHALLENGE

Leadership within PE lessons:

- Are you able to identify the correct technique for a particular skill?
- Are you able to demonstrate this to your peers?
- Are you able to identify a WWW and EBI for someone else's performance?
- How can you use your experience in a specific sport to coach someone else safely and correctly?
- Do you know how to communicate effectively with others?
- Can you demonstrate resilience (R6), determination (R5), confidence, teamwork, respect, independence (R8), enthusiasm and creativity (R7)?

<u>Artistic</u> Gymnastics Trampolining

Striking and fielding Stoolball Rounders Cricket Softball Tennis <u>Athletics</u> Track events Field events

> Swimming Strokes Life Saving





Sprinting Jumping Throwing Pacing



Body Legs Arms Breathing Timing



Product Design – Materials and Tools

Tools and Equipment If you are unsure, ask about the use first!

<u>Coping Saw</u> for cutting <u>curved</u> lines in <u>thin</u> material with a thin blade. The blade can be rotated by undoing the handle first.

Tenon Saw for cutting straight vertical cuts. The depth of the cut is restricted by the brass spine. You must stretch the index finger out when using this saw to steady it and get a more accurate cut. Start cutting on a corner, drawing back several times.

Bevel Edge Chisel for removing wood. Always chisel away from yourself. Use only for cutting wood – they must be razor sharp!

Steel Rule Measuring with accuracy up to 1/2 mm depending on your eyes! It starts at zero on the end, unlike a ruler that has material on the end first. Make sure that you look at the measurements from above to get an accurate reading. You also need a sharp pencil!

Bench Hook and Clamp Use the bench hook to help cut wood with accuracy. Top tip: always cut all the way through your work into the bench hook to avoid splintering the back of your work.

Squares: 45 degree and 90 degree Take care of these – your work accuracy depends on them being accurate! You must keep the stock (wooden bit) tight against your work and your pencil must be sharp!

<u>Soldering Iron</u> These are used to join electrical items such as wire, remember to take care because these are very hot, be sensible, use a stand. Apply heat to the whole area to be soldered before putting the solder wire onto the joint.

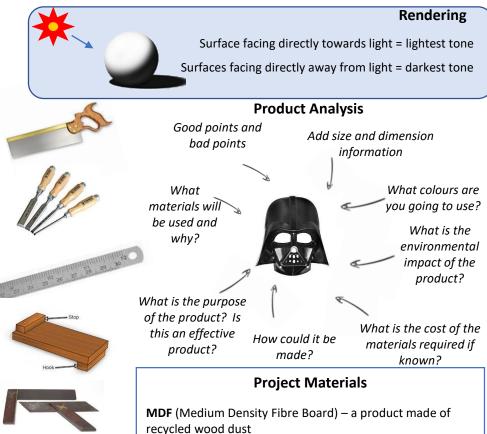
<u>Machine Tools</u> You must not use these unless you have been shown how to by a teacher and you understand! Always ask if you are unsure.

Fret saw for cutting **curved** lines in **thin** material with a thin blade. Always keep your fingers clear. Make sure the guard is intact. Cut slowly. Use the clamp to stop wood rattling about.



<u> Pillar Drill</u>

We use this for drilling vertical holes in material. Almost always you will clamp your work down first. Wear glasses, use the guard and know how to turn it off in an emergency. Do not use if you are unsure – ask!



Solder – a thin strip of metal used to help stick electronic components together

 $\ensuremath{\textbf{Switch}}\xspace - a$ component that allows electricity to go through a circuit

Battery snap – a component that lets you connect a battery to the circuit

Connector block – a component that lets you connect wires together

Wire – red wire is positive, black wire is negative





Product Design – Maths Element

| Measuring - Length: measured using a steel rule or ruler. For small measurements we us mn Angles: measured using a protractor and using degrees. A right angle = 90°. The Examples: line measuring below – use a ruler and ask someone to check your a the answer in mm and cm 1) 2) 3). | re are 360° in a circle nswer. Give Examples: angle measuring. Use a protractor to measure these angles and ask someone to check for you. |
|--|--|
| <u>Area</u> – the two-dimensional space taken up by something. For example, the area problems. <u>Area of a rectangle = width × length</u> width length | a of a sheet of material like card. Measured in either cm ² or m ² for larger $\frac{\text{Area of a circle} = \pi r^2}{\pi = 3.142}$ $\frac{\pi = 3.142}{\text{The radius is half the diameter}}$ |
| Examples - rectangle area. 1) If the width of a piece of fabric is 10 cm and its length is 15 cm, what is its area in cm²? 2) Width = 12 cm, length = 32 cm, what is the area? 3) Width = 3 m, length = 8 m, what is the area in m²? Answers below. | <u>Examples - circle area.</u> 1) If the radius of a piece of metal is 5 cm what is its area in cm²? 2) Radius is 3 cm, what is the area? 3) Radius = 9.5 cm, what is the area 4) Diameter = 12 cm, what is the radius? Answers below. |
| R = 0.5 m 6 m 4.5 m A m A m A m A m A m A m A m A | t will be removed for a special floor. How much is the actual carpet area equared, how much will this cost? |

The easiest way to remember these is to ask someone to set you more questions!

Harder question: rectangular area 27 m^2 ; circle area N^2 ; total area = 26.21 m^2 ; carpet cost = £314.55

Religious Education – Jewish Beliefs and Practices

| Keyword | Definition | Prophets | Explanation of this Prophet's Life |
|----------------|--|-------------------------------|---|
| Chosen people | Jewish belief that G-d chose them for his own. | Adam | First man on Earth. Eve was made from Adam's rib. Eve |
| Covenant | A promise, testament or agreement. | | tempted Adam to eat from the forbidden tree of |
| Dietary laws | The food laws given by G-d to the Jews. | | knowledge. This disobedience cause original sin to come upon all of humanity. |
| Eternal | Beyond time and space and without end. | Noah | Society had become dangerous and many people had |
| Exodus | The departure of the Israelites (Jews) from Egypt. | 1 | turned away from G-d. G-d spoke to Noah and asked him |
| Israel | Jewish homeland promised to them by G-d. | 1 | to build an ark as G-d wanted to create a great flood to |
| Justice | Fairness and fighting for people's rights. | | remove all sin and evil from the world. Two of each |
| Kashrut | The name for the Jewish law that states that foods can and cannot be eaten and how those foods must be prepared. | | animal and Noah's family survive the flood. Noah was given new rules in order to keep society in order, such as 'do not worship idols'. |
| Kosher | Food that is 'clean' and meets the requirements of the Jewish laws. | Abraham | The founder of Judaism and often called 'father Abraham' |
| Obedience | Following rules. | | or 'father of the Jews'. G-d created a covenant between |
| Omnibenevolent | G-d is all-loving. | | himself and Abraham and stated 'you will be a father of a |
| Omnipotent | G-d is all-powerful. | | great nation, if you walk in my ways'. Abraham left his home town to find the promised land and G-d rewarded |
| Omnipresent | G-d is always there. | | his obedience by enabling Abraham and Sarah to conceive |
| Omniscient | G-d is all-knowing. | | (have children) even though Abraham was 100 years old. |
| Orthodox | Following traditional practices, rituals and beliefs. | Moses | Known as the servant of G-d and leader of the Exodus – |
| Prophet | A person regarded as an inspired teacher or proclaimer of the will of G-d. | | whereby the Israelites were freed from slavery out of |
| Reform | Jews who have changed certain practices to adapt to modern society. | | Egypt. After freeing the Israelites, Moses was given the |
| Responsibility | Being trusted and accepting consequences. | | Ten Commandments to inform people in society of how to behave. |
| Ritual | A religious ceremony observed by believers. | 1∟ | |
| Rosh Hashanah | The Jewish new year. | - | |
| Shema | The central prayer in Judaism. | CHALLENG Go to the link | SE ss below and extend your knowledge on Jewish beliefs |
| Synagogue | The Jewish place of worship. | and practices | |
| Torah | Jewish Holy scripture, part of the written law. | | ww.bbc.co.uk/religion/religions/judaism/ |
| Trefah | Literally means 'torn' – forbidden food. | https://w | <pre>/ww.bbc.com/bitesize/topics/ztrqxnb</pre> |
| Trust | Faith in another person. |] | |
| Yom Kippur | The day of Atonement; day of fasting on the tenth day after Rosh Hashanah. | | |

Religious Education – Jewish Beliefs and Practices

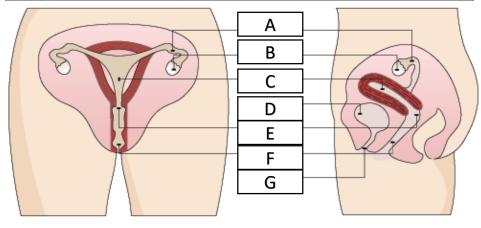
| Themes | Beliefs | Themes | Practices |
|---------------|--|--------------------|---|
| G-d | Jews are monotheists, which means they only believe in one G-d who is omnipotent (all powerful), omniscient (all knowing) and omnibenevolent (all loving). | Shabbat | Shabbat is the Jewish Sabbath, which occurs Friday night until Saturday night. As the Torah states to 'Keep the Sabbath holy', Jews tend to not work during this holy day as Shabbat means 'stopping' and Jews set the time |
| Covenant | Judaism says that the Jews entered a special relationship with G-d, whereby G-d promised to teach Jews how to live, and Jews are to worship one true G-d and obey his commandments. The fundamental set of rules to guide | | aside for G-d. At the arrival of Shabbat, a prayer is said and Jews remember G-d's creation of the world whereby he rested on the seventh day as well as the Israelites escape from slavery. |
| Commandments | Jews, revealed by G-d to Moses on Mount Sinai. | Kashrut | Jews are only able to eat kosher foods: foods that are permitted and prepared under Jewish law. |
| Free Will | The belief that G-d created humans with the ability to do good and bad to test them on whether they choose to worship him or not. | | Jews are allowed to eat any animals that chew the cud and have split hooves, e.g. cows, and any fish with fins, e.g. haddock. Any foods that do not fit this category are trefah |
| Orthodox Jews | Orthodox Jews follow the Torah literally including all the mitzvot (commandments) as these were given to Moses from G-d. Orthodox Jews observe mitzvot by not working on the Sabbath, men wear the Kippah at all times and men and women sit | | not permitted. Food must also be prepared under Jewish law. Jews are also not able to eat dairy and meat together and often have separate facilities for this, e.g. two sinks, two fridges, two sets of plates and cutlery. |
| Reform Jews | separately during worship. Reform Jews believe that the Torah must be made relevant to today so women alongside men can wear the | Bar/Bat Mitzvah | A religious coming of age ceremony that Jewish children observe at the age of 12, for girls and 13, for boys. Represents the time after which the 613 mitzvot (commandments) are to be followed. |
| | Kippah and men and women can sit together during worship. Reform Jews might set aside some teachings if these are not relevant to today's society. | Passover | A religious festival where Jews remember how the Israelites left slavery when Moses led them out of Egypt 3000 years ago. |



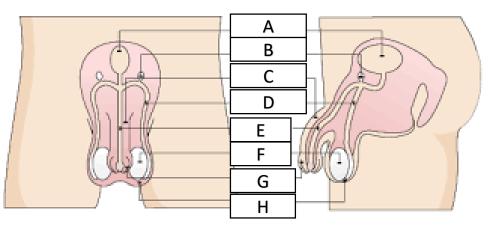
Seder plate

7 CR Reproduction and Variation

| 1. T | 1. The Female Reproductive System | | | | |
|------|-----------------------------------|--|--|--|--|
| | Part | Function | | | |
| А | Oviduct (Fallopian tube) | To transport eggs from the ovary | | | |
| В | Ovary | Production of eggs | | | |
| С | Uterus (womb) | Where the baby develops | | | |
| D | Bladder | Where urine is stored | | | |
| E | Cervix | Entrance to uterus Holds baby in place | | | |
| F | Vagina | Where penis enters during sexual intercourse | | | |
| G | Urethra | Tube that carries urine | | | |

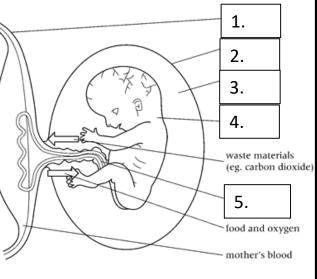


| 2 | 2. The Male Reproductive System | | | | |
|---|---------------------------------|---|--|--|--|
| | Part | Function | | | |
| А | Bladder | Where urine is stored | | | |
| В | Glands | Excrete fluid that the sperm travel in | | | |
| С | Penis | Enters the vagina during sexual intercourse | | | |
| D | Sperm duct | The tubes along which sperm travel | | | |
| E | Urethra | Tube that carries urine | | | |
| F | Testis | Produce sperm | | | |
| G | Foreskin | the retractable roll of skin covering the end of the penis. | | | |
| н | Scrotum | Skin covering testis, keeping them below body temp | | | |

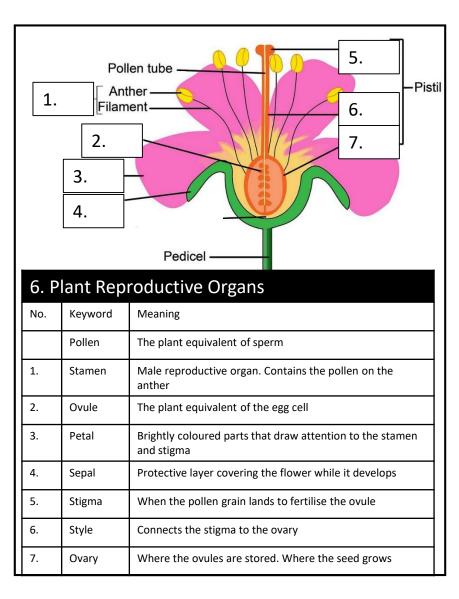


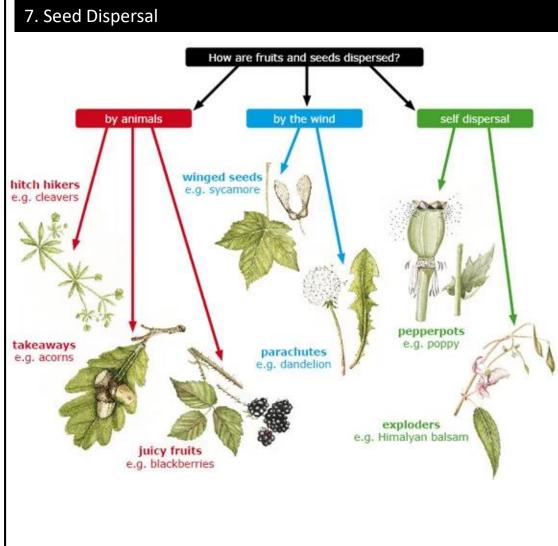
| 3. Co | onception of a | Baby | | |
|-------|----------------|--|---------------------|------------------------------|
| No. | Keyword | Definition | fertilised egg cell | Cestrogen |
| | Ovulation | An egg cell is released from ovary | 1. 3. | Progesterone 3. |
| 1. | Fertilisation | When the sperm meets the egg | ma 3. | Ining |
| 2 | Embryo | A small ball of cells that will grow into a foetus | | 1. 2. 4. eaks own |
| 3 | Implantation | The fertilised egg sticks into the uterus lining | | Day Day Day Day 1 4 14 28 |

| No. | Keyword | Definition | |
|-----|-------------------|--|------------------|
| 1 | Placenta | Provides, food, oxygen and removes gases from the foetus | |
| 2. | Amnion | Protective sac around foetus | 11 21 |
| 3. | Amniotic fluid | Fluid (liquid) contained din the amnion sac | |
| 4. | foetus | A developing child that looks like a baby | $ \setminus $ |
| 5. | Umbilical cord | Connects the placenta to foetus. | |



| 5. The Menstrual Cycle | | | | |
|------------------------|-------|---|---|--|
| No. | Day | Process | Reason | |
| 1. | 1–4 | Menstruation: lining is lost, woman has a period | To remove the old unused lining | |
| 2. | 4–14 | Uterus lining builds up | To prepare for a possible pregnancy | |
| 3. | 14 | Ovulation | To create a new baby | |
| 4. | 14–28 | Uterus lining maintained | In case the egg is fertilised | |
| | | | | |



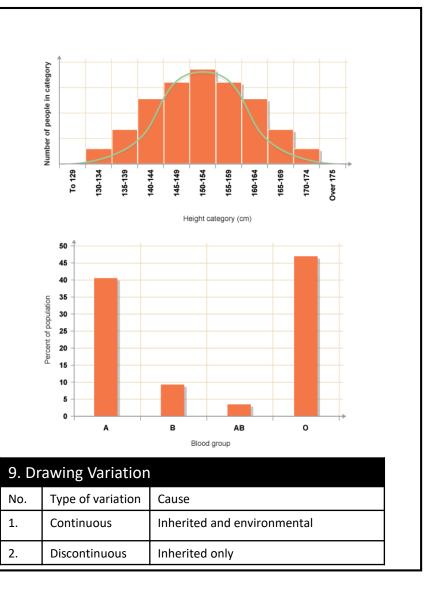


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2.

8. Variation Keywords

| Keyword | Meaning | |
|---|--|--|
| Variation | Differences between things | |
| Species | A group of living things that have similar characteristics. They can breed together to produce offspring that can have children. | |
| Characteristics | A quality that allows you to separate things | |
| Gene | A section of DNA that gives the instructions for a characteristic | |
| DNA | A long chemical in every cell that gives the instruction to make a living thing | |
| Inherited variation | Differences within the same species caused by children inheriting different genes from their parents | |
| Environmental variation | Difference within the same species caused by the environment | |
| Clone | Two living things with identical genes | |
| Identical twins Formed from one embryo dividing into two. They hav identical genes but show environmental variation | | |
| Non-identical twins | Formed from two egg cells being fertilised by two different sperm. They are equivalent to brothers and sisters | |



| 1. Word Equations | | | |
|-------------------|---|--|--|
| Keyword | Meaning | | |
| Word equations | Show the names of all the chemicals involved in a reaction. | | |
| Reactants | The chemical(s) at the start of a chemical reaction | | |
| Products | The chemical(s) at the end of a chemical reaction | | |

7CC Chemical Reactions

| 2. Conservation of Mass | | | |
|-------------------------|---|--|--|
| Keyword | Meaning | | |
| Conservation of mass | Total mass of products = Total mass of reactants. | | |

| <u>Reactants</u> | Pro | οdι | icts |
|--|---|--------|----------------|
| sodium hydroxide + hydrochloric aci | d $ ightarrow$ sodium chloride | + | water |
| sodium hydroxide + sulfuric acid | ightarrow sodium sulfate | + | water |
| sodium hydroxide + nitric acid | ightarrow sodium nitrate | + | water |
| magnesium oxide + hydrochloric acid | d \rightarrow magnesium chloride | + | water |
| magnesium oxide + sulfuric acid | ightarrow magnesium sulfate | + | water |
| magnesium oxide + nitric acid | ightarrow magnesium nitrate | + | water |
| magnesium oxide + hydrochloric acid magnesium oxide + sulfuric acid | d → magnesium chloride → magnesium sulfate | + + | water water |

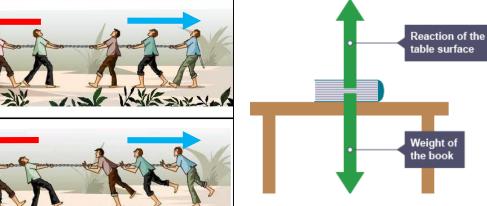
| | | | | 3. pH Scale a |
|--------|----------|-----------|--------------|---------------|
| | | Acid | Acid | Keyw |
| 3 | Stomach | 0 | | |
| J | Hold | 1 | \sim | Acidic |
| \leq | Orange | 2 | Vinegar | |
| | Julce | з | Tomato | |
| \leq | Black | 4 | Juice | |
| 0 | Coffee | 5 | Urine | Neutral |
| 5 | | 6 | | |
| | Water | 7 Neutral | Sea Water | Base |
| \leq | Baking | 8 | Watter Corr | |
| 2) | Soda | 9 | Indegestion | A.U. 1: |
| 2 | Ammonia | 10 | | Alkali |
| | Solution | 11 | Soepy | |
| 2 | | 12 | Wator | |
| 4) | Bleach | 13 | Drain | |
| - | , , | 14 | Cleaner | |
| | | Base | | pH scale |
| | | | | |

| 3. pH Scale and Neutralisation | | | |
|--------------------------------|--|--|--|
| Keyword | Meaning | | |
| Acidic | A solution with a pH less than 7. The lower the number the stronger the acid. | | |
| Neutral | A solution with a pH of 7 | | |
| Base | Reacts with an acid to for a salt and water | | |
| Alkali | A base that dissolves in water to give a solution with a pH greater than 7. The higher the number the stronger the alkali | | |
| pH scale | A measure of how acidic or alkaline a substance is. | | |
| Neutralisation | A chemical reaction that produces a salt and has a pH of 7 | | |
| Oxidation | A chemical reaction where a substance reacts with oxygen | | |

| 4. Naming Salts | | | |
|-------------------|--------------------------------|--|--|
| Acid used | Second part of the salt's name | | |
| Hydrochloric acid | chloride | | |
| Sulfuric acid | sulfate | | |
| Nitric acid | nitrate | | |

7PF Forces and Motion – Knowledge Organiser

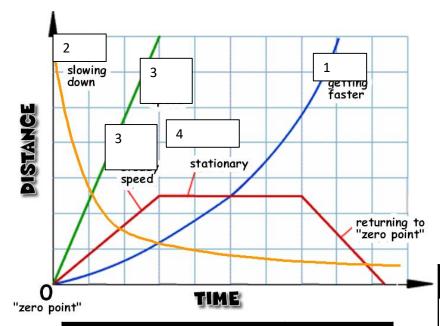
| 1. Forces Keywords | | R R S | |
|---------------------|--|----------------------------|---------------------|
| Keyword | Meaning | AN | |
| Force | Something that makes a change happen | And AV | N.D |
| Contact force | Can only act when two things touch | the tool | |
| Non-contact force | Can act on things not touching | <u>nn</u> | 1 |
| Balanced (forces) | When forces are equal and opposite each other also called equilibrium | 2. Types of Force Force | Bet |
| Unbalanced (forces) | When opposing forces are not equal to each other | Friction | Two mo |
| Resultant (force) | The overall force once all the forces are considered | Upthrust | An object |
| Force arrows | Show direction and size of a force | Reaction | Two stat objects |
| Opposing forces | Forces working in opposite directions | Air resistance | A movin and air |
| Weight | The amount gravity pulls an object down | Gravity | Two ma |
| Pressure | Force shared or an area | Magnetic | Magnet |
| Newton | Units that force is measured in | | magneti materia |



| | 2. Types of Force | | | | |
|---|-------------------|--------------------------------------|----------------------------|-----------------------------|--|
| _ | Force | Between | Contact or non- contact | Example | |
| | Friction | Two moving surfaces | Contact | Brakes | |
| | Upthrust | An object and water | Contact | Boat | |
| | Reaction | Two stationary objects | Contact | Book on shelf | |
| | Air resistance | A moving object and air | Contact | Plane | |
| | Gravity | Two masses | Non-contact | You and the earth | |
| | Magnetic | Magnets and magnetic materials | Non-contact | Magnet picking up a nail | |

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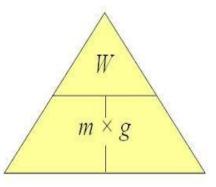


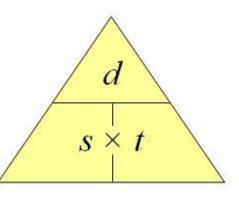
| 3. Motion Keywords | | | |
|--------------------|--|---------------------------------------|--|
| Keyword Meaning | | Position on distance time graph | |
| Accelerate | Speeding up | 1 | |
| Decelerate | Slowing down | 2 | |
| Constant speed | Staying the same speed | 3 | |
| Stationary | Not moving | 4 | |
| Speed | Distance covered in a certain time | The steepness of the line | |

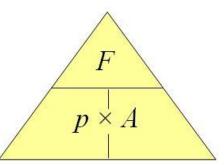
| 4. Calculating Weight | | | | |
|-----------------------|------------------------------|--------------------|--|--|
| Symbol | Name | Calculated by | | |
| W | weight (N) | = mass × gravity | | |
| т | mass (kg) | = weight ÷ gravity | | |
| g | gravitational field strength | = weight ÷ mass | | |
| On Earth g = 10 N/kg | | | | |

| g Speed | |
|--------------|-----------------------------|
| Name | Calculated by |
| distance (m) | = speed × time |
| speed (m/s) | = distance ÷ time |
| time (s) | = distance ÷ speed |
| | distance (m) speed (m/s) |

| 6. Calculatin | 6. Calculating Pressure | | | | | |
|---------------|-------------------------|--------------------|--|--|--|--|
| Symbol | Name | Calculated by | | | | |
| F | force (N) | = pressure × area | | | | |
| p | pressure (N/cm²) | = force ÷ area | | | | |
| а | area (cm²) | = force ÷ pressure | | | | |

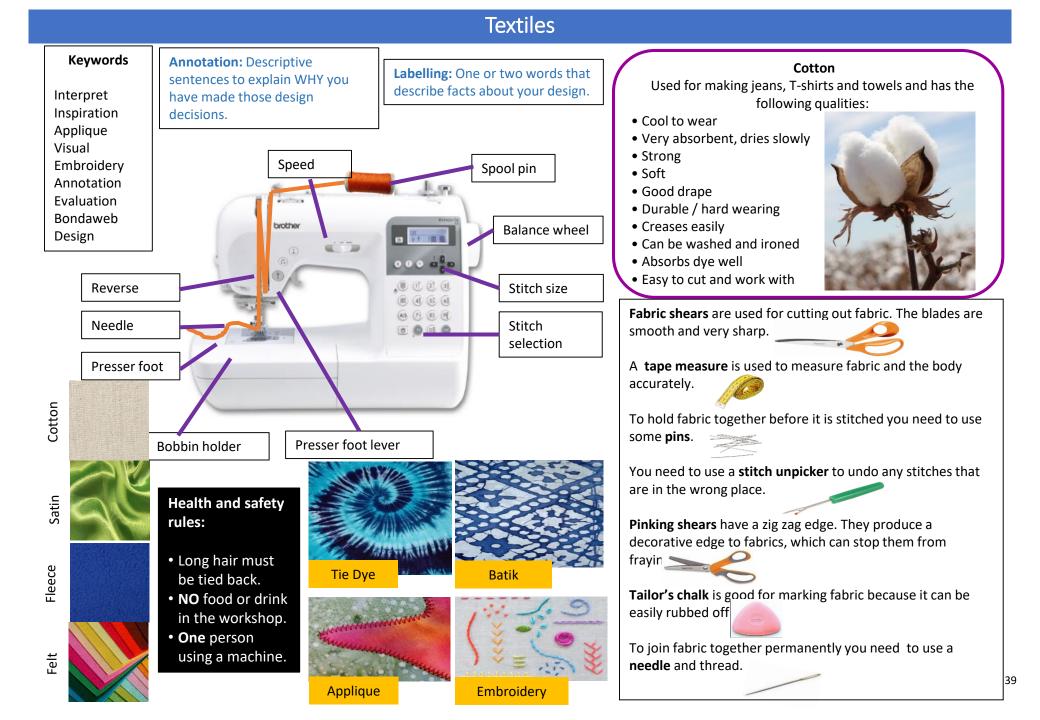








| LEARN VOCA | AB | | Spanish | | B | UILD SEN | TENCES | |
|---|---|--|---|--|---|---|--|--|
| Family Members Verb Phrases (present tense) | | Activities | | | | | | |
| Mi madre es Mi abuela tiene Mi bisabuela Mi hermana se | My mum is My grandma has My gran My sister is called | En mi familia hay Generalmenta, llevo <u>No</u> llevo | In my family, there is Usually I wear I <u>don't</u> wear | Ver la televis Ir de compra Leer |)S | watching TV shopping reading cooking | | |
| llama Mi hermanastra Mi media hermana | My step-sister My half-sister | Prefiero los I prefer Hacer de Verb Phrases (future tense) | | Hacer depor Montar a cal | ocar la guitarra lacer deportes acuáticos Aontar a caballo Tener = to have | | doing water sports horseriding Ser = to be | |
| Mi tía Mi mejor amig <mark>o</mark> /a <mark>es</mark> Mi prima | My aunt By best friend is My cousin (girl) | será It | vould like will be | Tengo Tienes Tiene | I have You have He/she has | Soy Eres Es | I am You are He/she is | |
| A mi abuelo le gusta Mi bisabuelo Mi hermano | My grandfather likes My grandad My brother | un pez un perro un gato | mals a (gold) fish a dog a cat | Tenemos Tienen | We have They have | Somos | We are They | |
| Mi hermanastro Mi medio hermano Mi tío Mi prim o | My step-brother My half-brother My uncle My cousin (boy) | un pájaroa birdun caballoa horseun conejoa rabbitUna cobayaa guinea pig | | Adjectives (describing)Me dicen quepeople say.divertido / afunny | | are | | |
| Hair an | Hair and Eyes | | Simpático / a Tonto / a | | kind silly | | | |
| Tengo El pelo castaño El pelo negro El pelo rubio | l have brown hair black hair blond hair | Clot Un vestido (verde) Una camiseta (rosa) Una falda (naranja) | thing a (green) dress a (white) t-shirt an (orange) skirt | listo / a tranquilo / a guay | Adjectives (a | clever quiet, calm cool | | |
| El pelo liso El pelo rizado El pelo largo | straight hair curly hair long hair | unos pantalonestrousersunos vaquerosjeansCore Questions | | Guapo / a ha | | | handsome/ beautiful young | |
| El pelo corto Los ojos azules Los ojos grises | short hair blue eyes grey eyes | ¿Cómo es tu padre? ¿Cómo eres? ¿Qué te gusta/le gusta hacer? | Describe your Dad. What are you like? What do you like doing? | Alto / a tall Bajo / a small / short Intensifiers (make your language more interesting | | | | |
| Los ojos grises Los ojos marrones Los ojos verdes Gafas | green eyes green eyes glasses | 4) ¿Qué animales tienes? 5) ¿Qué animales prefieres/quieres tener? | Do you have any pets? Which animal would you like to have? | Un poco Muy Bastante | | a bit very quite | | |





'Maths behind the design':

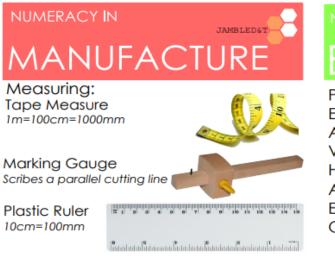




Alexander McQueen S/S 10' Dress

Can you combine inspiration found in research to come up with a design for a product? Try the 'Maths behind the design' to demonstrate in a simple way how patterns are combined to form a solution.

Textiles and Maths





Make sure that you start at zero. Measure in mm for better accuracy. Add suggested sizes to initial designs and actual sizes to developments & final ideas.

Double check all measurements! Use a sharp pencil.



As we manufacture our products, we find that many changes take place. It is important to analyse data gathered from users of the product in order to figure how successful it is and if any further changes are necessary.

