

Year 9 Spring 1 - Knowledge Organiser

openacademy

Just reading through your books or a knowledge organiser is not always an effective way to revise. Instead, you should do something with the information. Choose an example of the revision methods on the pages or see if you can come up with another method. The knowledge is evolutionary not revolutionary. Approximately half the knowledge is new and half helps you revise. Many of the activities are changing. We hope you enjoy them.

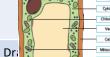
In SKL our topic will be on respectful relationships, looking at families and parenting, healthy relationships, conflict resolution, and relationship changes. In the second half of the term the topic will be goal setting where you will begin to look at your educational future at the Academy, by exploring your own learning strengths, career options and goal setting as part of the GCSE options process. You will carry out a personality and career assessment which might help guide you into future career possibilities and from this you will begin to look at choosing your options for your GCSE subjects. Alongside this you will look at the financial side of work, calculating how much money you may receive for certain types of career and what you might spend money on/budgeting as an adult.

| Subject | Page Number | Subject | Page Number |
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| Reading | 3 | Deutsch | 34 |
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| Maths | 7 | RS | 38 |
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Idea

Make some flash cards or PowerPoint slides. Make top trumps.







Write a song or a rap.





Plana lesson

Write a quiz. Design a game.





Explanation

Write down key words, quotation, questions or equations on one side of a card. On the other side, write the definition or answer. Use them to test yourself.

Turn your notes into posters with lots of colour and illustrations. Summarising the key information in a different way is an effective way of learning and your brain will remember the colours more easily. Do the title last!

Write the topic/keyword in the centre of your page. Add everything you know in subtopics. Then explore each subtopic in turn adding more ideas. Colour/pictures help /ou recall.

Are there songs that stick your head. Change the lyrics to the information you want to learn. If you record and isten back it will be a more fun way of revising.

If you teach something to someone else the chance of recalling it is really high. This has been found to be the most effective way of learning something for the long term.

Take the keywords or facts that you need to learn and turn them into a story or a cartoon. The sillier the story the more likely you are to remember it.

Playing is how we learn as young children and it is a very powerful way of learning throughout life. If we enjoy the game it helps us remember.

READING:STORY FEATURES QUESTIONS FOR CRITICAL READERS

| SETTING When and where does the story take place? How is the setting described? What sense of time and place do you get from the story? | CHARACTERS Who are the main characters? Are you interested in them? How are they described by the writer? Do they seem believable and original? |
|---|---|
| BEGINNING How does the story start? How does it grab your attention? What elements of the story are foreshadowed? | SUSPENCE How does the writer keep you wanting to read more? Are there twists and turns in the story? How does the author build tension? |
| ENDING How does the story end? Is it a satisfying ending? Is there a twist? Is the ending left open? | LANGUAGE What type of language does the writer use? Do they use certain types of words? How descriptive is the writing? How does the writing bring the story to life? |
| PLOTWhat is the storyline?How is it structured?What works well in the storyline? | ORIGINALITY What surprises you about the story? How is it different from other stories? Does it meet or surprise your expectations? |
| TONEIn what tone is the story written (i.e. funny, scary, tense, serious, formal, informal)?How well does the tone suit the overall story? | GENRE Does the story fit a particular genre? Does it have features that are typical of a certain genre? How does it compare with other stories of its kind? Does it try to do something original or creative with genre? |

ACCELERATED READER



HOW TO TAKE A QUIZ

1. Go to the school website: www.open-academy.org.uk 2. Go to Student and then Learning Area 3. Scroll Down and Click on the Accelerated Reader logo 4. To log in: Username: firstname.surname@open-academy.org.uk Password: Academy *You can take a quiz on a computer, tablet or phone.

KEY TERMS

BOOK LEVELS

1-2.9

3-3.9

4-4.9

5-5.9

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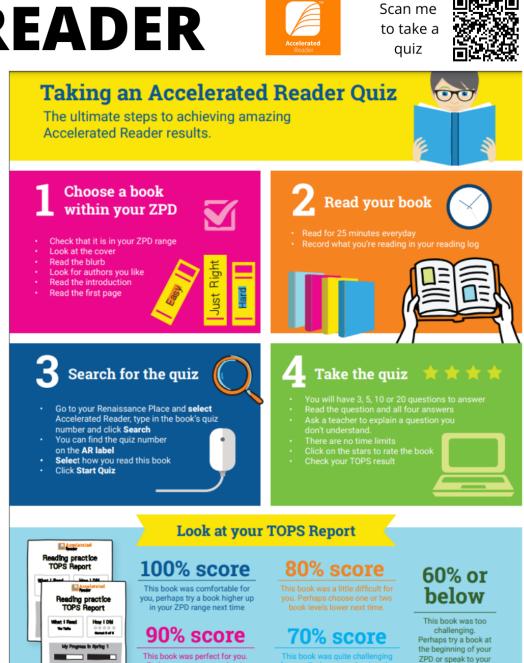
Book Level: A measurement of how difficult the book is. **ZPD**: Your personal reading level that reflects a

range of book levels. You should read books in your ZPD most of the time.

Points: Each book has a number of points available. A book is given points based on how difficult and how long it is. You earn points by passing guizzes on books you have read.

Star Reader: A reading assessment. We use Star Reader to find out your reading age and ZPD.

Accelerated Reader: A website that allows you to take guizzes on the books you have read. **Word Millionaire:** A reward given to students who read one million words or more.



Perhaps try one or two book

levels higher or longer next time.

for you. Perhaps try a book at the

beginning of your ZPD range

next time.

teacher for help.

READING:GENRE KEY VOCABULARY

Genre: Genre comes from the French word for 'type'. It refers to a category of book.

FICTION Fiction is a type of text that focuses on imaginary events and characters.

FANTASY

Realistic stories that depict our world at the present time.

Examples: Can You See Me by Libby Scott

Checkmates by Stewart Foster

CONTEMPORARY

Danny Cheung Does Not Do Maths by Maisie Chan

HORROR

Thrilling stories that create feelings of fear or shock.

Examples: The Haunting of Aveline Jones by Phil Hickes Frozen Charlotte by Alex Bell Nest by Kenneth Oppel

ADVENTURE

Stories where a character goes on a journey.

Examples: Wave Riders by Lauren St John The Girl Who Stole an Elephant by Nizranna Farook Twitch by M G Leonard

HISTORICAL

Stories that depict our world in the past or are centred

on a historical event.

Examples: When the Sky Falls by Phil Earle Letters to the Lighthouse by Emma Carroll Now or Never by Bali Rai



Stories with magical creatures and imaginative worlds.



Examples: Harry Potter by J K Rowling Amari and the Night Brothers by B B Alston The House With Chicken Legs by Sophie Anderson

ACTION

Exciting and fast moving stories that often involve danger.

Examples: Stormbreaker by Anthony Horowitz Robin Hood by Robert Muchamore Amber Under Cover by Em Norry

MYSTERY

Stories about something unexplained or mysterious.

Examples: Murder Most Unladylike by Robin Stevens High-Rise Mystery by Sharna Jackson Waiting for Murder by Fleur Hitchcock

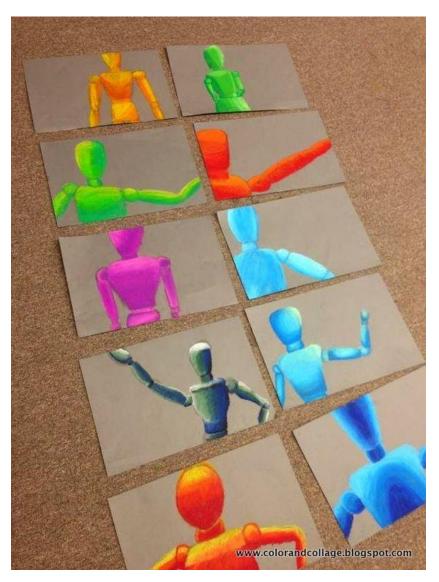
SCI-FI

Stories that feature scientific ideas such as space, time-



travel and the future. Examples: Adam-2 by Alistair Chisholm Slick by M G Vaughan Railhead by Philip Reeve

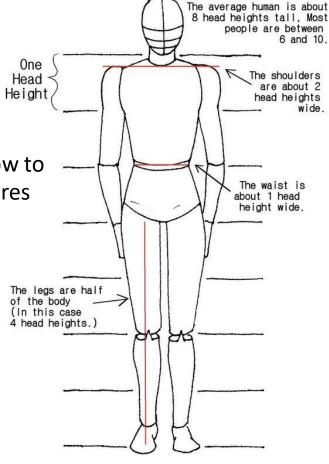
Colour, Tone and Depth



• Year 9 are looking at the Human Figure this term and making drawings From the wooden mannequins.

• They are studying proportion and how to Apply tone to show 3D form on the figures

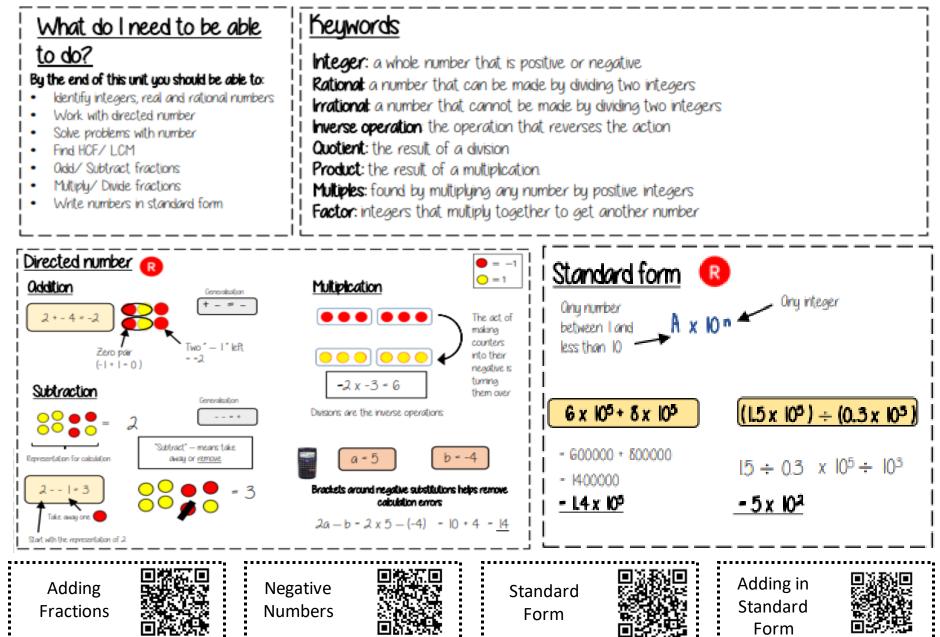


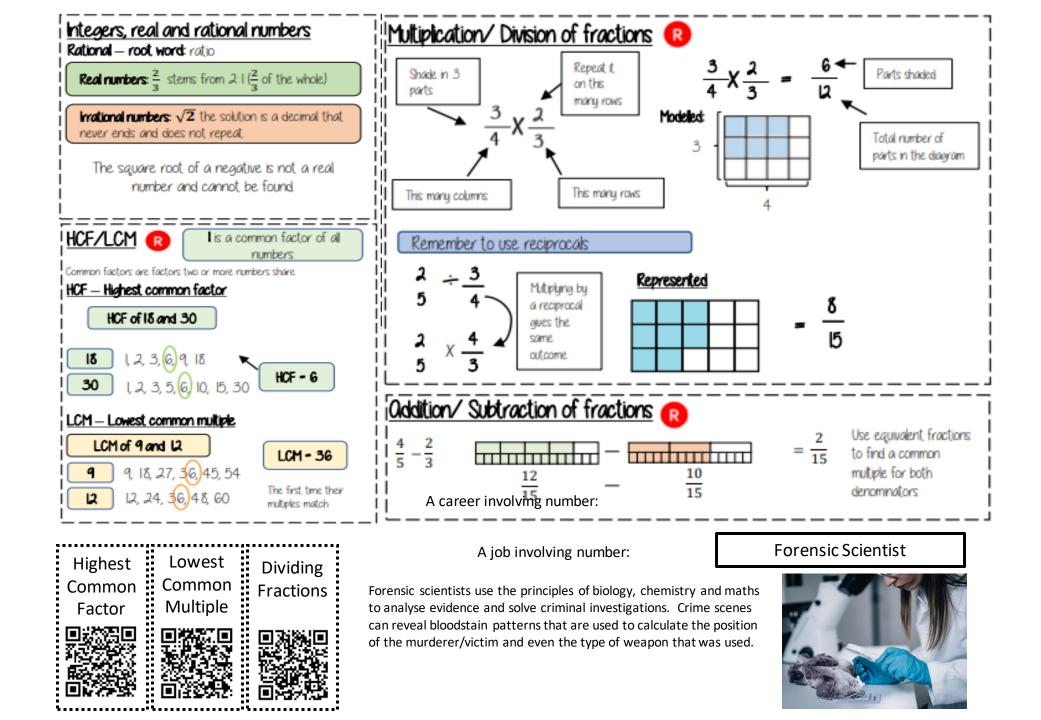


You can see the figure proportions In a diagram here:

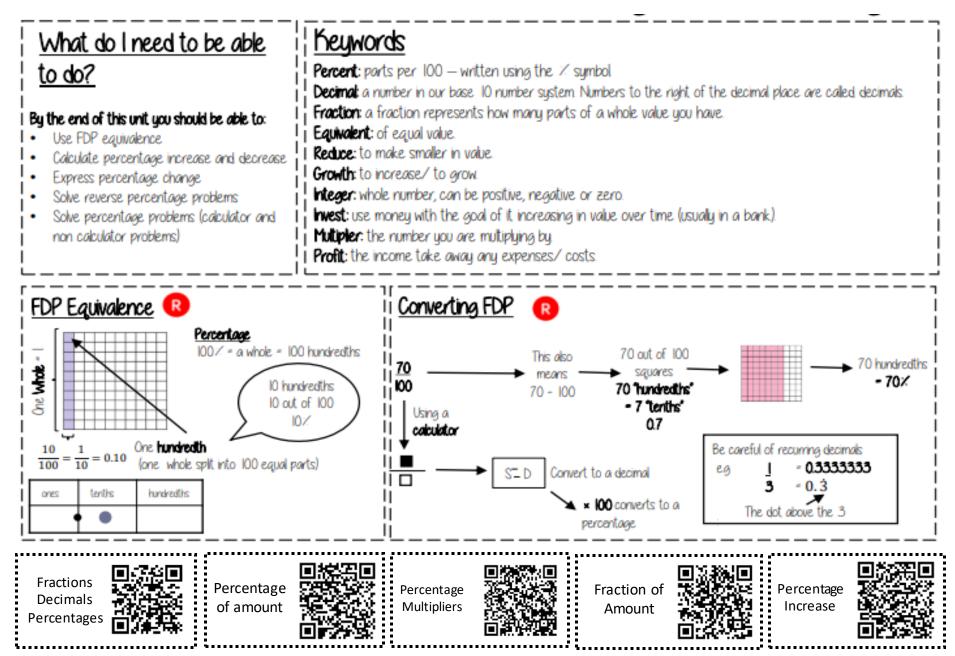
YEAR 9 — REASONING WITH NUMBER...

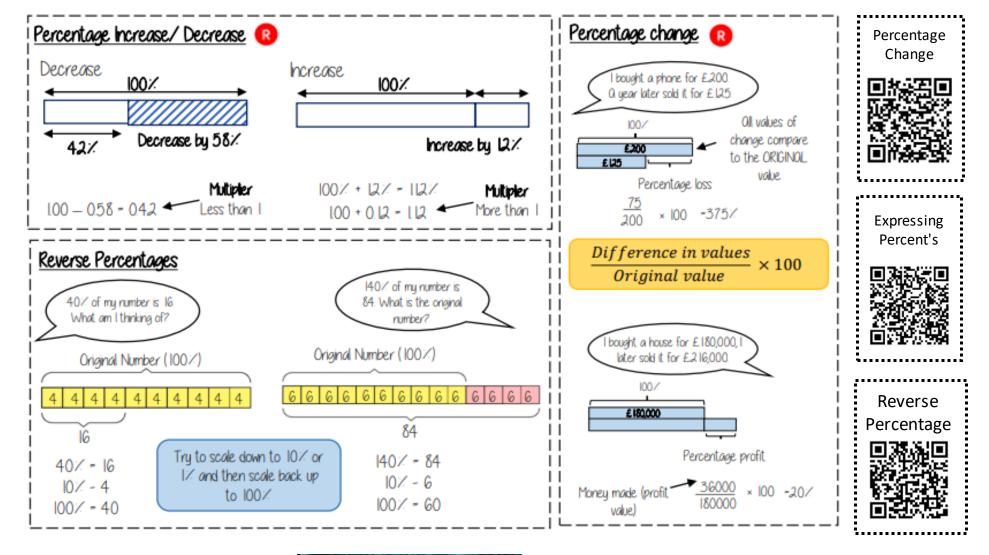






YEAR 9 - REASONING WITH NUMBER... Using Percentages





A career involving number:

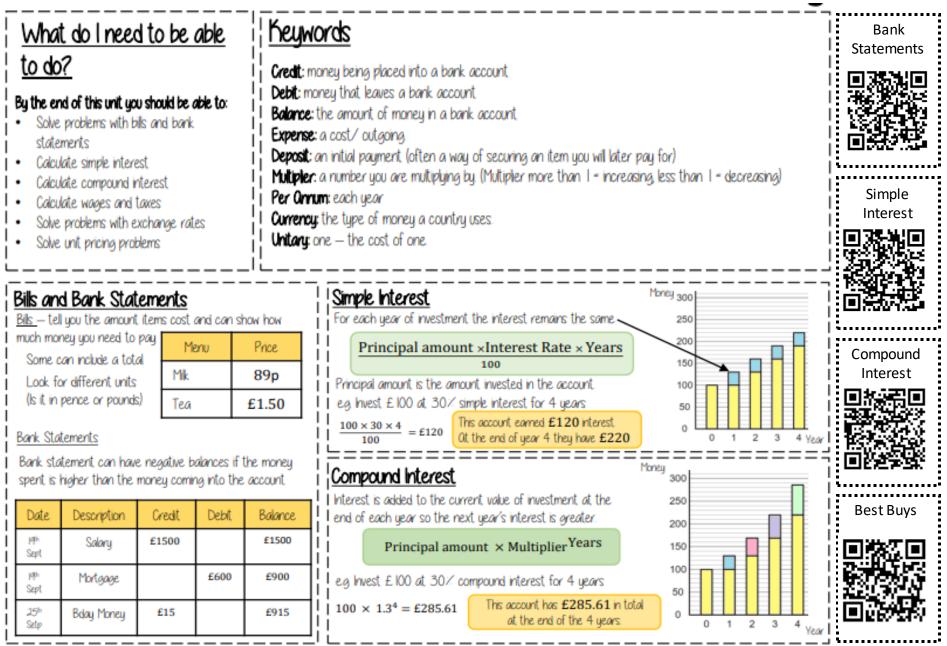
Cryptanalyst

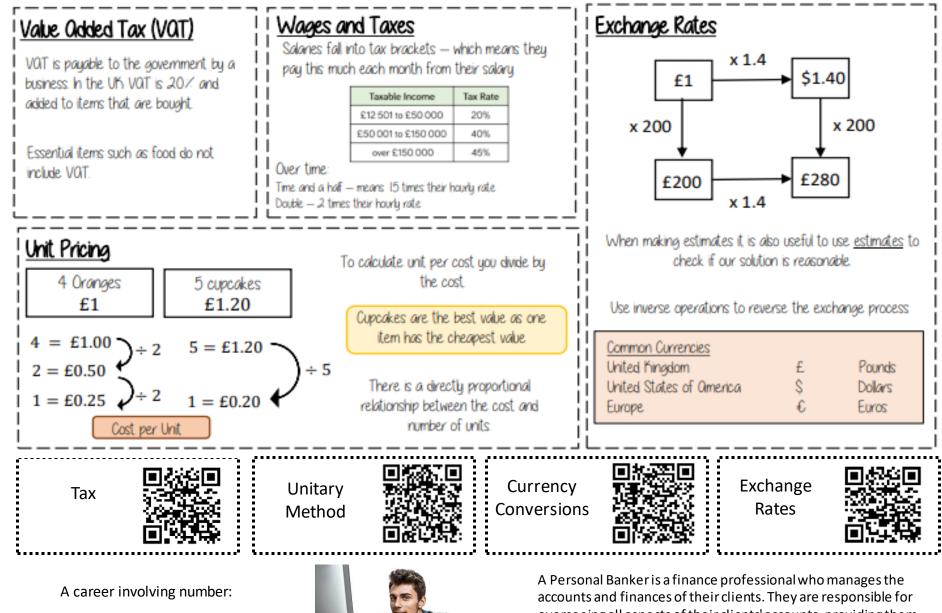


Cryptanalysts analyse and decipher secret code, decoding messages for government and law enforcements. They help provide privacy for people and businesses, keeping hackers away from important data. They are constantly working on new ways to encrypt information and keep it safe.

YEAR 9 — REASONING WITH NUMBER...

Maths & Money





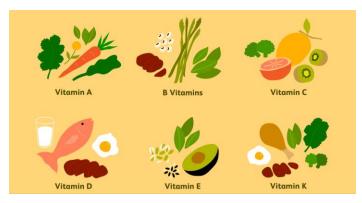
Banker



A Personal Banker is a finance professional who manages the accounts and finances of their clients. They are responsible for overseeing all aspects of their clients' accounts, providing them with banking services like loans or credit cards, and advising investment opportunities.

Micronutrients

| | What are they? | Which vitamins? | Food examples |
|------------------------------|--|--------------------------------------|--|
| Water soluble vitamins | Vitamins that are found in the watery parts of fruits, vegetables and grains. We wee them out eat day so it is important to eat them daily. | B1, B2, B3. B9. B12, Vitamin C | Bread, pasta, rice, peas, cheese, leafy green, wheat, nuts, fish, citrus fruits, potatoes |
| Fat soluble vitamins | Vitamins that are found in fatty foods. Any that aren't used are stored by the body so we need to be careful not to build up an excess of these vitamins. | A, D, E, K | Oily fish, eggs, margarine, sunlight, cereals, vegetable oils, meats, some dairy foods. |



Antioxidants are found in foods such as fruit and vegetables, they help protect our bodies from being damaged by free radicals.

Free radicals are chemicals that we encounter every day of our lives. They damage our bodies cells leading to diseases such as cancer and heart disease. **Vitamins A, C and E are anti-oxidants.**

| | Function | Sources | Deficiency |
|---------|---|--|--|
| lron | Iron is important in making red blood cells, which carry oxygen around the body | Dark green leafy vegetables e.g. spinach, meat. | A lack of iron can lead to iron deficiency anaemia. This can cause tiredness, pale complexion, heart palpitations, headaches. |
| Calcium | Needed for strong bones and teeth, healthy nerves and muscles and blood clotting – growing children need calcium every day to help build strong bones and teeth. | Milk, cheese, tofu, green leafy vegetables, hard water, sesame seeds. | Too little during childhood can cause rickets, osteoporosis because bones become weaker. It can also slow down blood clotting. |



Coconut Chicken Curry

Ingredients

1 onion
 1 pepper
 2 cloves of garlic
 1 tsp sized piece of fresh ginger
 2 chicken breasts
 1 can coconut milk
 2 tbsp of curry powder/paste of your choice
 2 tbsp lime juice
 Salt and pepper

Equipment

White chopping board Red chopping board Knife Frying pan Wooden spoon Can opener

<u>Skills</u>

Chopping – dicing/mincing Frying Seasoning

<u>Method</u>

- 1. On a white chopping board, chop pepper and onion and mince your garlic and ginger.
- 2. On a red chopping board cut your chicken into bit sized pieces.
- 3. Fry onion in a small amount of oil for about 5 minutes, then add chicken, once the chicken is cooked through add peppers, garlic, ginger and curry powder/paste and cook for about 1 minute.
- 4. Add coconut milk and lime juice and let simmer for 5-10 minutes.



You are welcome to make an Asian dish of your choice.

Broccoli, Bacon and Cauliflower cheese

Ingredients

½ a small cauliflower
½ a small head of broccoli
2 rashes of bacon/ pack of lardons
1 small onion
1 clove of garlic
25g hard margarine/butter
25g flour
250g milk
½ tsp Dijon mustard
125g cheddar cheese
150g panko breadcrumbs
30g of melted butter
Salt and pepper

Equipment

White chopping board Yellow chopping board Knife Frying pan Saucepan Wooden spoon Wooden spatula grater

<u>Skills</u>

Chopping – dicing/mincing Frying boiling Making a roux/bechamel sauce

Method

- 1. Preheat oven to 200c
- 2. On a white chopping board chop cauliflower and broccoli into bite sized pieces.
- 3. Fill a saucepan ³/₄ full of hot water, bring to the boil then add the cauliflower and broccoli and par-boil for 5 minutes. Once cooked drain and transfer into an ovenproof dish.
- 4. Fry bacon in a small amount of oil until crispy, then add this to the ovenproof dish.
- 5. Chop onion and mince garlic, fry in the pan until the onions have softened, once softened turn the heat down. Add the 25g of hard margarine/butter ,once it has melted add the flour and mix until it forms a paste
- 6. Switch the heat off. Add the milk a tiny bit at a time, only adding more once its all mixed in.
- 7. **Switch the heat on**. Bring the sauce to a simmer, whisking it all the time until it has thickened. Stir through mustard, cheese, salt and pepper. Pour over vegetables .
- 8. Finally make the crumb by mixing together 30g of melted butter, panko breadcrumbs and seasoning. Sprinkle over the top of the vegetables.
- 9. Bake in the oven until bubbling and golden brown.

You are welcome to make a bake of your choice.

Lasagne

Ingredients

- 6 Lasagne sheets
- Sprinkle of cheese for the top
- 1 tomato
- For the Filling
- 250g Mince Meat
- 1 onion
- 1 tin of tomatoes
- Salt, pepper, herbs
- For the Sauce
- 30g butter
- 30g flour
- 300 ml Milk
- 60g Cheese

<u>Equipment</u>

Chopping board, knife, jug, grater, whisk, wooden spoon, frying pan, sauce pan

<u>Skills</u>

Chopping, dicing, mincing, frying, seasoning, weighing, measuring, making a bechamel sauce, portioning, baking.

<u>Method</u>

- 1. Chop onion and garlic on a white board.
- 2. Start frying the onion and garlic add the meat.
- 3. When meat is cooked, add the tomatoes and simmer until thickened, add seasoning
- 4. Making the sauce: in the saucepan melt the butter and flour.
- 5. When melted switch of the heat and add the milk, little at a time then mixing in.
- 6. When ALL the milk is mixed in then switch the heat on and constantly whisk until its thickened (boiling point). Switch off and stir through the cheese.
- 7. CONSTRUCTION $\frac{1}{2}$ mince, pasta, $\frac{1}{2}$ cheese sauce. Repeat:

$\frac{1}{2}$ mince, pasta, $\frac{1}{2}$ cheese sauce.

- 8. Add your remaining grated cheese on top and a sliced tomato.
- 9. Bake for 40 minutes.

Ingredients

6 Lasagne sheets

Sprinkle of cheese for the top

1 tomato

For the filling:

1 pepper

1 onion

1 courgette

1 can lentils

1 can chopped toms

For the sauce:

30g butter

30g flour

300 ml Milk

60g Cheese

Equipment

Saucepan, weighing scales, grater, chopping board, measuring jug, wooden spoon, whisk, ovenproof dish

<u>Skills</u>

Chopping, dicing, mincing, frying, seasoning, weighing, measuring, making a bechamel sauce, portioning, baking.

Vegetarian lasagne

Method

- 1. Finely dice the onion on a white board.
- 2. Slice the courgette and chop the pepper into large squares.
- 3. Gently fry the onion until translucent. Add the peppers and courgette and fry for another 5 minutes.
- 4. Add the lentils, chopped tomatoes and seasoning. Mix well and leave to simmer on a low temperature.
- 5. Making the sauce: in the saucepan melt the butter and flour.
- 6. When melted switch of the heat and add the milk, little at a time then mixing in.
- 7. When ALL the milk is mixed in then switch the heat on and constantly whisk until its thickened (boiling point). Switch off and stir through the cheese.
- 8. CONSTRUCTION $\frac{1}{2}$ filling, pasta, $\frac{1}{2}$ cheese sauce. Repeat: $\frac{1}{2}$ filling, pasta, $\frac{1}{2}$ cheese sauce.
- 9. Add your remaining grated cheese on top and a sliced tomato.
- 10. Bake for 40 minutes.



Topics covered

- ✓ India facts/what we know
- India physical geography
- ✓ India human geography
- ✓ Climate and Monsoon
- ✓ Tourism in India
- \checkmark India's changing population
- ✓ Development within India
- ✓ Welcome to Dharavi
- ✓ India and its environment
- ✓ Future India
- ✓ India Report

Year 9 Knowledge organiser: Explore India



Key Ideas:

- 1. I can describe the location of India and its unique character.
- 2. I can describe the physical landscape variety of India
- 3. I describe how cities of India have grown and their impacts
- I can explain how development is changing India and its environment

Skills

- □ To research amazing facts using ICT
- □ To use mapping to investigate features
- To understand different cultures and ways of living
- □ To draw/label line graphs
- To write an extended written account
- □ To use ICT to research information

Places and Environments

- ♦ Ganges River
- ♦ Kashmir
 ♦ New Delhi
- ♦ Mumbai
- * Goa
- ♦ Ghats
- ♦ Brahmaputra
- **♦ K**erala
- ♦ Thar Desert

Key Terms Used in this Unit

- States
- Colonialism
- Monsoon
- Hinduism
- Independence
- Bollywood
- Population
- Investment
- Aid
- Slums
- Disputes
- Resources
- Poverty
- Pollution
- Economic growth
- Standard of Living
- Exports
- Technology
- Space Race 18

Year 9 - Spring 1 - The Language of Protest

Protest Writing Genre Overview

- In this unit of work you will engage with a variety of non-fiction extracts linked to the theme of protest writing, some of these extracts will be modern and some will be pre-1900.
- Protest writing gives activists the chance to communicate their ideas and messages in a clear and persuasive way. These writers may be writing from a particular political social or moral stand point.
- The key themes you will be exploring are segregation, gun control, mental illness, the suffragette movement, voting age and climate change.

Key Terminology

Inference - a conclusion reached on the basis of evidence and reasoning **Summary** - a brief statement or account of the main points of something

Political - relating to the government or public affairs of a country **Emotive Language** - when certain word choices are made to evoke an emotional response in the reader

Perspectives - a way of regarding situations, facts, etc, and judging their relative importance (point of view)

Format - the way in which something is arranged or set out

Formality - how formal or informal your writing should be

Counter argument - an argument against another argument, idea, or suggestion

Rebuttal - an instance of disproving evidence or an accusation

Themes

Segregation - the action or state of setting someone or something apart from others Gun Control - set of laws or policies that regulate the manufacture, sale, transfer and ownership of firearms

Mental Illness - refers to a wide range of mental health conditions — disorders that affect your mood, thinking and behaviour

Suffragette Movement a women's organisation in the early 20th century who, under the banner "Votes for Women", fought for the right to vote

Voting Age - the age in which it is legal to cast a vote in elections

Climate Change - long-term shifts in temperatures and weather patterns. These

shifts may be natural or caused by humans

LGBTQ+ & BLM - issues around equality for all regardless of race, gender, sexuality or sexual orientation

Types of text to study

- Speeches
- Television Interviews
- Newspaper Articles
- Coroners Reports
- Recounts of oral
- accounts

Art & Music Links

Art - Protest art is the creative works produced by activists. It is a traditional means of communication, utilised by artists to persuade those around them on a given topic. Protest art helps arouse base emotions in their audiences, and in return may increase the climate of tension and create new opportunities to dissent. One of the first examples of protest art came as a reaction to WW1 With Dada artists and has continued in popularity until present day with artists such as Banksy.



Hannah Hoch



Banksy

Music - Protest music is music that aims to send social messages and make a change (associated with a movement for social change or other current events through music). Often using the popularity of the artist to bring more attention to a particular issue. Most famous examples of protest songs are: *We Shall Overcome* linked to the civil rights movement and *War* by Edwin Starr which was critical of the Vietnam War

https://www.youtube.com/watch?v=dpWmIRNfLck&t=6s

Ambitious Vocabulary

Abolition - the action of abolishing a system, practice, or institution

Alienated - experiencing or inducing feelings of isolation or estrangement

Anarchy - a state of disorder due to absence or non-recognition of authority or other controlling systems

Defiance - open resistance; bold disobedience **Discrimination** - the unjust or prejudicial treatment of different categories of people, especially on the grounds of race, age, sex, or disability

Emancipation - the fact or process of being set free from legal, social, or political restrictions; liberation

Equality - the state of being equal, especially in status, rights, or opportunities **Exploitation** - the action or fact of treating someone unfairly in order to benefit from their work **Dissent** - the holding or expression of opinions at variance with those commonly or officially held Hierarchy - a system in which members of an organisation or society are ranked according to relative status or authority Hypocrisy - the practice of claiming to have higher standards or more noble beliefs than is the case

Insurgent - a person fighting against a government or invading force; a rebel or revolutionary

The Open Values in Language of Protest:

Leadership Teamwork Hard Work Perseverance Courage

In order to protest against an institution that may be much more powerful than yourself you need to show the personal attributes that many of the people we study in this unit show.

Careers:

https://www.prospects.ac.uk/careers-advice/what-can-i-do-with-my-degree/english



Language of Protest I Wider Reading



by John Lewis



by David Roberts Suffragette



Art of Protest: What a Revolution Looks Like by De Nichols



by Stella Caldwell Have Pride

PEOPLE



VOICE

HUDYASU

ENGLISH



by Kay Woodward



by Tom Adams Youthquake



by Cerrie Burnell

by Malala Yousafzai

to Make a Difference by Greta Thunberg

No-One is too Small

l Am Malala MALALA YOUSAFZA

IN FICTION

ACTIVISM

ઍ

PROTEST

Run Rebel by Manjeet Mann Punching the Air by Ibi Zobio

Zana Fkaillon

The BONG Sparkow

USEF SALAAM

Moxie by Jennifer Mathieu

Two Boys Kissing

S S

BRIGHT GIRL

THINGS

Things a Bright Girl Can Do by

Sally Nicolls

by David Levithan

CAN DO

Activist by Louisa Reid

How to Save the World by Anthea Simmons

Burning Sunlight

by Emma Shevah

5

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by Angie Thomas

The Hate U Give

The Bone Sparrow by Zana Frallion

l Am Not a Label



















MALALA





























































Genre Overview

- 1. Create a plan for your own persuasive speech to the Houses of Parliament about why the legal age to drive should be lowered to 15. (Remember to consider topic, audience, purpose, format and formality).
- 2. Write a persuasive newspaper article on a topic you feel strongly about e.g. no homework or climate change.
- 3. Write a letter to the Prime Minister arguing why the voting age should be lowered to 16.

Different types of texts:

- 1. Look at your opening to question 3 from the 'Genre Overview' section above and transform it to the opening of a speech to be given to parliament.
- 2. Explain the differences between broadsheet and a tabloid newspaper article.

Key Terminology

- 1. Define the following words: political, suffragette and formality.
- 2. Write a paragraph about why Saturday School is good idea using a counter argument and a rebuttal.
- 3. Give an example of which type of non-fiction protest writing you think is the most powerful and explain why e.g. I think a speech is the most powerful form of protest writing because....

| | Retrieval: write as much as you | | | | |
|--|-------------------------------------|--|--|--|--|
| | remember from the following | | | | |
| | skills in class. Use the checklists | | | | |
| | in class to check your responses. | | | | |
| | | | | | |
| | 1. How do we write a summary? | | | | |
| | | | | | |
| | 2. List as many structural | | | | |
| | methods as you can think of. | | | | |
| | | | | | |
| | 3. What are the four sentence | | | | |
| | types? | | | | |
| | | | | | |
| | 4. List as many persuasive | | | | |
| | language methods as you can | | | | |
| | think of. | | | | |
| | | | | | |

Year 9 - Rise of the Nazis, life in Nazi Germany and the Holocaust

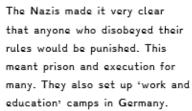
| Key words | |
|-----------------------|--|
| National Socialism | A political system in which a strong government rules a country and protects the interest of one racial group. |
| Adolf Hitler | An Austrian politician who became leader of the Nazi Party in 1921 and led them to power by 1933. Hitler shot himself in 1945. |
| The SA | Abbreviation of 'Sturmabteilung' or 'Storm Division'. Known as the brown shirts, they were an armed wing of the Nazi Party in its early years |
| The SS | Abbreviation of 'Schutzstaffel' or 'Protection Sauadron'. Known as the black shirts, they took over from the SA as the Nazis' most loyal and committed soldiers. Oversaw much of the Holocaust. |
| Hitler Youth | A series of youth organisations in Nazi Germany, where young boys would learn practical and military skills and girls would learn how to be 'good' mothers and wives |
| Anti-Semitism | Hatred of discrimination of Jews. This had existed for centuries but was particularly important in Nazi Germany. |
| The Holocaust | General term given to the treatment of Jews and other 'undesirables' by the Nazis between about 1938 and 1945. |
| Eugenics | The belief that it is possible and desirable to improve the human race by selective breeding and by eradicating undesirable elements or 'genetic' traits. |

The Carrot:

For those who did as they were told and matched the Nazi ideal, there were many benefits for living in Nazi Germany. Propaganda also promised people happiness if they supported the Nazi regime.



The stick:



Why did people support the Nazis?

Although the Nazi Party never won an election in Germany, they did have a lot of support in some sections of society. Some historians say that the Nazis won support through 'negative cohesion', which means that their supporters did not always agree with each other, but supported the Nazis because shared a fear of hatred of something/someone else. Some reasons for supporting the Nazis are as follows:

- The Great Depression of 1929 led to a lot of unemployment and poverty in Germany. The Nazis promised to end unemployment and also provided aid to many who could not afford food.
- Fear/hatred of Communism Many middle and upper class people saw that if the communists took power they would lose their wealth. The Nazis were one of the most active and vocal groups against communism.
- Appeal to traditional values The Nazis promised a return to 'traditional' German values which many people thought had been forgotten in the 1920s.
- Propaganda and anti-Semitism The Nazis put the blame for many of Germany's problems on the Jews. For desperate people looking for someone to blame this idea could easily become attractive.

The Nazis controlled society through the 'carrot and stick method'

The Nazis promised the German people that they would create a 'Third Reich' and bring all true Germans to glory. Although there were some advantages for certain people, they ultimately failed to meet most of their promises and when WWII began they ended many of their policies aimed at helping the German people. On the right are some examples of people did and did not benefit from Nazi rule.

The Holocaust

Although there is historical debate around when the Holocaust started, the word is usually used to describe the mistreatment and murder of over 6 million Jews and millions of others by the Nazis, either because of their race, religion, sexuality, ability or lifestyle.

The Holocaust did not begin suddenly but was a

| process that arguably until the Nazis were of The most well-known concentration and dea systematically murder | defeate feature oth cam | d in 1945. e of the Holocaust is np, where prisoners we | the | 'Undesirables' | | virtually no to fitting into t | Referred to as Jews, eastern E people with disa people, criminals Witnesses were often killed or v | uropean abilities, s and Je put in | is, homosexuals, Roma/Sinti ehovah's camps and |
|--|-------------------------------|---|-----|---|------------------|--|---|---|---|
| 1933 — The Nazis call for Jewish businesses to be boycotted, Jewish books are banned and Jews are banned from some jobs | | 1935 – Homosexuals can now be arrested, and the Nuremburg Laws make Jewish people non– citizens. | | 1938 — In an eve known as 'Kristallnacht' thousands of Jew businesses, home and synagogues a looted. 91 Jews a killed. | ish es are | 1940 — Auschwitz, the largest concentration camp, is built in Poland. | 1941 – Mass killing of Jewish and Eastern European people begins | | 1942-45 – Jews from all over Europe are taken to death camps and systematically murdered |

Social group

Women

Workers

Young people

Advantages

propaganda.

Women were rewarded for

were also praised in Nazi

Unemployment dropped

marrying and having children

through loans and medals. They

dramatically under the Nazis and

workers were usually able to find

work. They were also given

holidays, cars and activities.

Hitler Youth organisations were

set up for boys and girls. These

were mostly fun and offered

opportunities for adventure.

benefits such as cheaper

Disadvantages

Women lost many of the freedoms

were now pressured into becoming

housewives and mothers, and many

Wages did not rise as much as much

figures covered up the fact that many

money. As the war began many of the previous benefits for workers ended.

lost their jobs under the Nazis.

as promised, and the employment

(compulsory) work for very little

Young people were targeted for

propaganda, particularly through

school where they learnt national

had fun in the 'wrong' way were

punished, often being put in camps.

socialist ideas. Any young people who

were working in conscripted

they had enjoyed in the 1920s. They

R Ogenn

24

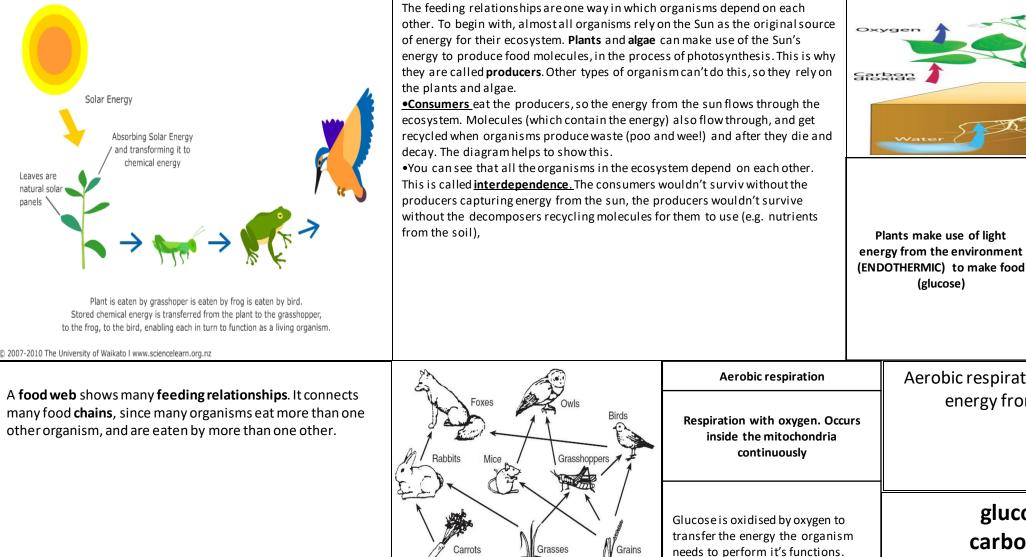
<u>oenacademu</u>

Leaves are

natural sol

panels

BIO-ENERGETICS (ENERGY IN BIOLOGICAL SYSTEMS)



(Not drawn to scale)

Aerobic respiration releases a large amount of energy from each glucose molecule

 \rightarrow

Water

Carbon dioxide + Water

Oxygen + Glucose

Light

glucose + oxygen \rightarrow carbon dioxide + water

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Plant and Animal Cells share these

Plant Cell

Plant Cells contain

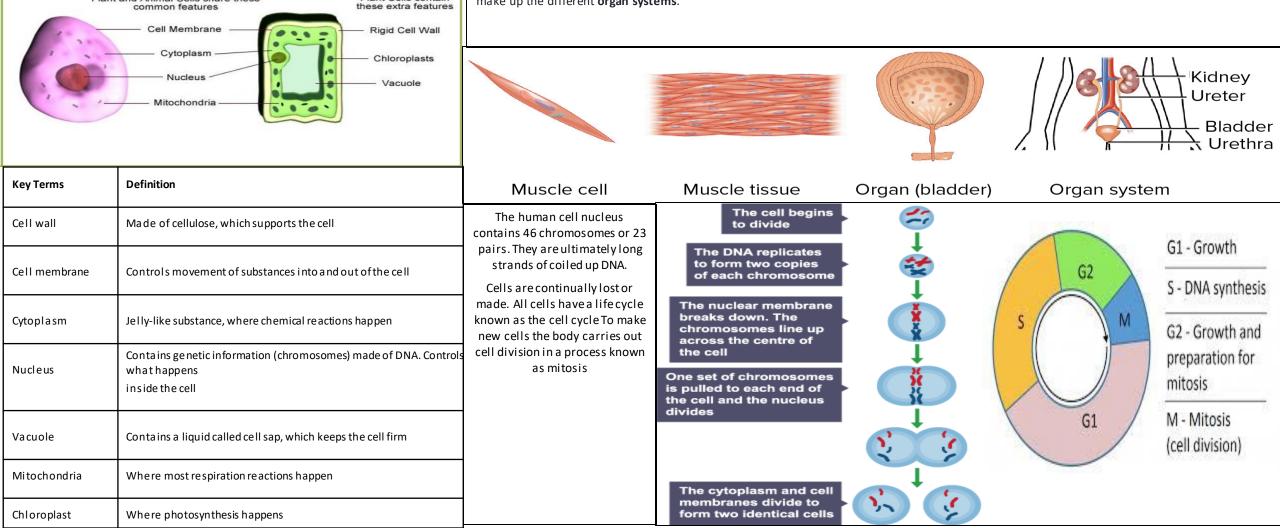
Animal Cell

CELLS AND REPRODUCTION 1

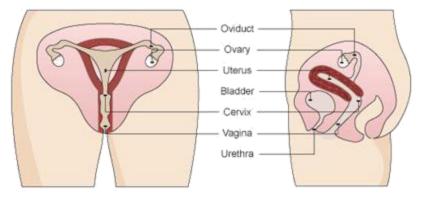
Body organization

All living organisms are made up of one or more cells. **Unicellular organisms**, like amoebas, consist of only a single cell. **Multicellular organisms**, like people, are made up of many cells. Cells are considered the fundamental units of life.

The cells in complex multicellular organisms like people are organized into **tissues**, groups of similar cells that work together on a specific task. **Organs** are structures made up of two or more tissues organized to carry out a particular function, and groups of organs with related functions make up the different **organ systems**.



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CELLS AND REPRODUCTION 2

The two <u>ovaries</u> (one of them is called an ovary) contain hundreds of undeveloped female <u>gametes</u> (sex cells). These are called <u>ova</u> (one of them is called an ovum) or egg cells. Women have these cells in their bodies from birth, whereas men produce new sperm continually.

Oviducts

Each ovary is connected to the **uterus** by an **oviduct**. This is sometimes called a Fallopian tube or egg tube. The oviduct is lined with **cilia**, which are tiny hairs on cells. Every month, an egg develops, becomes mature and is released from an ovary. The cilia waft the egg along inside the oviduct and into the uterus.

Uterus and cervix

The <u>uterus</u>, also called the womb, is a muscular bag with a soft lining. The uterus is where a baby develops until its birth. The <u>cervix</u> is a ring of muscle at the lower end of the uterus. It keeps the baby in place while the woman is pregnant. The <u>vagina</u> is a muscular tube that leads from the cervix to the outside of the woman's body. A man's penis goes into the woman's vagina during sexual intercourse.

Testes

The two testes (one of them is called a testis) are contained in a bag of skin called the scrotum. The testes have two functions:

•to produce millions of male gametes (sex cells) called sperm

•to make male sex hormones, which affect the way a man's body develops

Sperm duct and glands

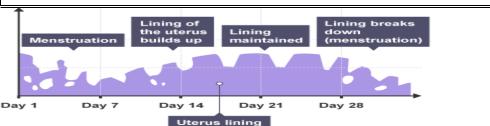
The sperm pass through the **sperm ducts**, and mix with fluids produced by the **glands**. The fluids provide the sperm cells with nutrients. The mixture of sperm and fluids is called semen.

Penis and urethra

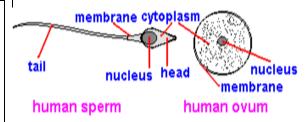
The **urethra** is the tube inside the penis that can carry urine or semen. A ring of muscle makes sure that there is no chance of urine and semen getting mixed up.

The menstrual cycle

The female reproductive system includes a cycle of events called the **menstrual cycle**. It lasts about 28 days, but it can be slightly less or more than this. The cycle stops while a woman is pregnant. These are the main features of the menstrual cycle:



<u>Fertilisation</u> happens if the egg cell meets and joins with a sperm cell in the oviduct. The fertilised egg attaches to the lining of the uterus. The woman becomes pregnant, the lining of the uterus does not break down and menstruation does not happen.



Fetal development and birth

Umbilical core

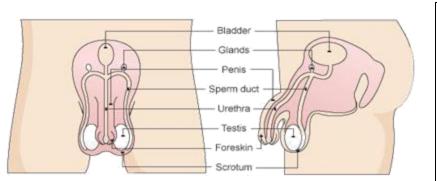
Fetus

Amniotic fluid

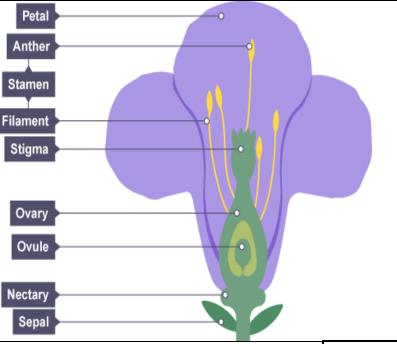
Cervix

The fertilised egg divides to form a ball of cells called an <u>embryo</u>. The embryo attaches to the lining of the uterus. It begins to develop into a <u>fetus</u> and finally into a baby.

The role of a mniotic fluid, the placenta and the umbilical cord



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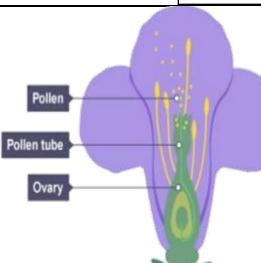


<u>Pollination</u>

Pollination is the transfer of pollen from the anthers of one flower to the stigma of another flower (of the same species).

In wind pollination, the wind carries the pollen from the anthers of one flower to the stigma of another

In insect pollination, insects carry the pollen from anthers to stigmas. They go to flowers to get nectar for food (e.g. bees), and the pollen sticks to them so they carry it onwards



CELLS AND REPRODUCTION 3

PLANT REPRODUCTION

| Structure | Function | their offspring don't compete with them for light or soil nutrients. | | |
|-----------|--|--|--|--|
| Sepals | Protect the unopened flower | Seeds can be dispersed in many ways: | | |
| Petals | Maybe brightly coloured to attract insects | Animals – they eat the fruit and release the seeds in their waste | | |
| Stamens | The male parts of the flower (each consists of an anther held up on a fil ament) | Wind – for example sycamore seeds Water – for example coconuts | | |
| Anthers | Produce male sex cells (pollen grains) | | | |
| Stigma | The top of the female part of the flower which collects pollen grains | | | |
| Ova ry | Produces the female s ex cells (contained in the ovules) | | | |
| Nectary | Produce a sugary solution called nectar, which attracts insects | | | |

After fertilisation, the female parts of the flower develop into a fruit: the ovules become seeds the ovary wall becomes the rest of the fruit

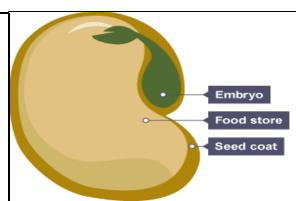
Seeds

A seed has three main parts:

 $\ensuremath{\,^\circ}\xspace$ embryo – the young root and shoot that will become the adult plant

•food store – starch for the young plant to use until it is able to carry out photosynthesis

seed coat – a tough protective outer covering



Seed dispersal

seed dispersal-so

The plant spreads the seeds out – this is called

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A force can be a **push or a pull**, for example when you open a door you can either push it or pull it. You can not see forces, you can only see what they do.

When a force is applied to an object it can lead to a change in the objects **Speed**

Direction of movement

Shape (think about a rubber band)

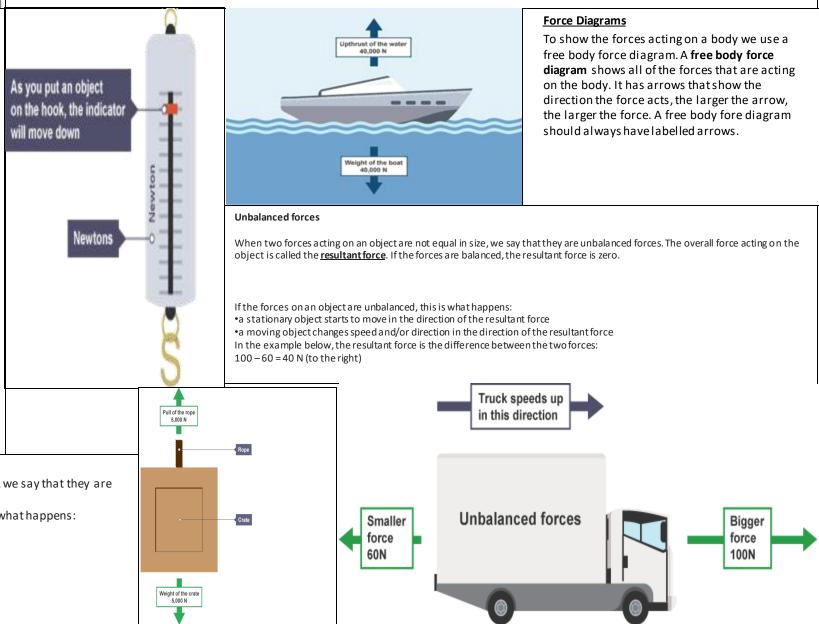
Forces can also be divided into 2 types, contact forces and non contact forces.

<u>Contact forces</u> for example friction, are caused when two objects are in contact.

Other forces for example gravity, are **non contact forces**. The two objects do not need to be in contact for the force to occur.

The unit of force is the **Newton (N)**, this is named after Sir Isaac Newton, who came up with many theories including those to do with gravity and the three laws of motion. We measure force using a piece of equipment called a Newton metre.

FORCES



Balanced forces

When two forces acting on an object are equal in size but act in opposite directions, we say that they are **balanced forces**.

If the forces on an object are balanced (or if there are no forces acting on it), this is what happens: •a stationary object stays still

•a moving object continues to move at the same speed and in the same direction Remember that an object can be moving, even if there are no forces acting on it.

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Mendeleev's beard 1

All the different elements are arranged in a chart called the **periodic table**. A Russian scientist called Dmitri Mendeleev produced one of the first practical periodic tables in the 19th century. The modern periodic table is based closely on the ideas he used:

| An atom is made up of three subatomic particles: protons, electrons and neutrons. Protons and neutrons are found in the nucleus of the atom (in the centre). | lectron roton eutron | 1 2 |
|---|--|--|
| Atoms Everything is made from atoms, including you. Atoms are tiny particles that are far toos mall to see, even with a microscope. If people were the same size as atoms, the entire population of the world would fit into a box about a thousandth of a millimetre across. Chemical reactions Atoms are rearranged in a chemical reaction. The substances that: react together are called the reactants are formed in the reaction are called the products | <pre>reactants → products The reactants are shown on write an equals sign instead plus sign. Word equations A word equation Shows the symbols or formulae. For exi iron + sulphur → iron sulphi In this reaction, iron and sul</pre> | actions can be modelled using equations. In general, you write: In the left of the arrow, and the products are shown on the right of the arrow. Do not d of an arrow. If there is more than one reactant or product, they are separated by a e names of each substance involved in a reaction, and must not include any chemical cample: |
| No atoms are created or destroyed in a chemical reaction. This means that the total mass same as the total mass of the products. We say that mass is conserved in a chemical real $\qquad \qquad $ | | |

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Chemical reactions 2

no slope =

Collision Theory: chemical reactions occur when reactant particles collide with a certain amount of energy.

The rate of a reaction depends on two things: If the **frequency** of collisions between particles. The more often particles collide, the more likely they are to react.

The **energy** with which particles collide. If particles collide with less energy than the activation energy, they will not react.

Chemical Reactions

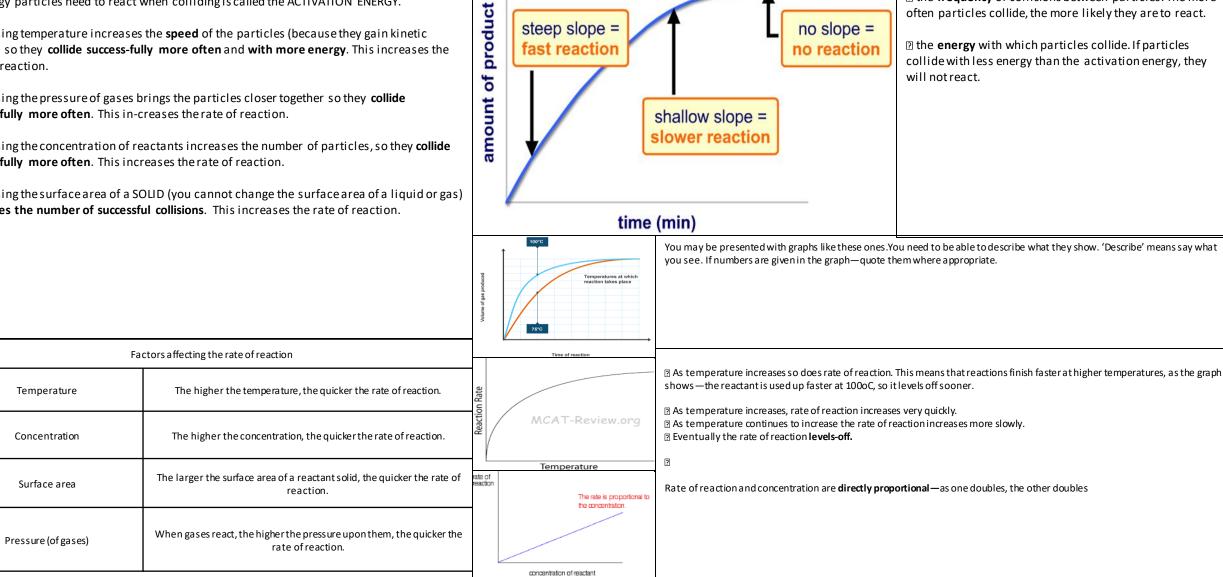
Chemical reactions occur when particles collide with enough ENERGY. The minimum amount of energy particles need to react when colliding is called the ACTIVATION ENERGY.

Increasing temperature increases the **speed** of the particles (because they gain kinetic energy) so they collide success-fully more often and with more energy. This increases the rate of reaction.

Increasing the pressure of gases brings the particles closer together so they collide successfully more often. This in-creases the rate of reaction.

Increasing the concentration of reactants increases the number of particles, so they collide successfully more often. This increases the rate of reaction.

Increasing the surface area of a SOLID (you cannot change the surface area of a liquid or gas) **increases the number of successful collisions**. This increases the rate of reaction.



steep slope =

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A force can be a **push or a pull**, for example when you open a door you can either push it or pull it. You can not see forces, you can only see what they do.

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Direction of movement

Shape (think about a rubber band)

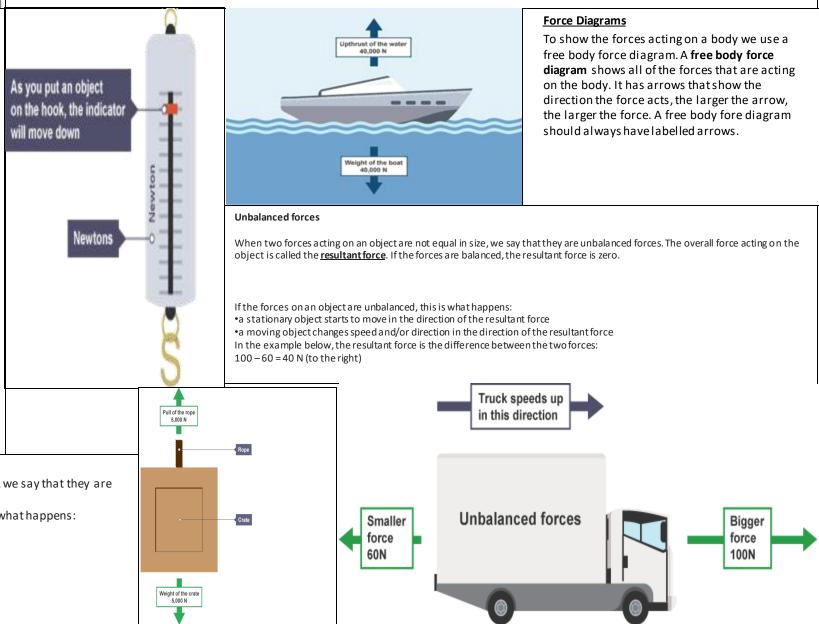
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Key Terms

Energy

Work

Potential

energy Chemical potential

energy Elastic potential energy

Gravitational potential energy

Kinetic energy

Conservation of energy

Thermal energy

ENERGY

Thermal energy transfer by radiation

...

156.7

F 140

F 120

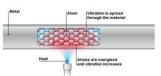
IF 100

|- 80

66.5

| Definitions Energy is a quantity that is stored in many objects and situations. Anything storing energy can do work. Work is done when energy changes from one store to another. Potential energy is energy stored in objects that don't seem to be doing anything. See the examples. Energy stored in fuels (like wood, or the gas we run Bunsen burners on) is called chemical potential | Energy Transfer Energy is transferred, so it changes store, in loads of situations. Examples to know: When a fuel is burned, the chemical potential energy in the fuel ends up stored as thermal energy in the surroundings; When an object falls off a shelf, the gravitational potential energy it stores is transferred (changed) to kinetic energy while it is falling. When the object hits the floor, all the gravitational potential energy it had to start with ends up stored as thermal energy in the surroundings. When a spring that's been stretched is released, the elastic potential energy it stored is transferred to kinetic energy then to thermal energy | All objects give out some infra red radiation, but the hotter they are the more radiation they give out. All objects can also absorb infra red radiation: when they do, they heat up. Radiation can travel through empty space – so this is how the Sun heats up the Earth. The objects don't have to be touching, unlike in conduction, and there are no particles involved. | |
|--|--|---|-----------|
| energy. | | | NASA/IPAC |
| Elastic objects, like springs or rubber bands, store elastic potential energy when they are stretched. Any object that is not on the ground has gravitational potential energy. This is because they are lifted up in a gravitational field, and could fall down! | Energy Stores Energy can be stored in objects, or when objects are doing something. It is a quantity measured in joules (J). Examples to know: Energy is stored in fuels as chemical potential energy Energy is stored in a nything elastic when it is stretched, as elastic potential energy | Convection Heat can be transferred from one place to another by convection. Fluids Liquids and gases are fluids because they can be made to flow. The <u>particles</u> in these fluids can move from place to place. Convection occurs when particles with a lot of heat energy in a liquid or gas move and take the place of particles with less heat | cold |
| Movement energy. Any moving object stores kinetic energy. | Energy is stored in any object that has been lifted up, because the object stores gravitational potential energy Energy is stored in moving objects as kinetic energy. Energy is stored in any object as heat energy. (obviously, if it is cold, it doesn't store much heat energy!) This is also known as <i>thermal energy</i> . | energy. Liquids and gases expand when they are heated. | |
| Also known as heat energy. All objects store some thermal energy, because the particles are moving. The higher the temperature of an object, the more thermal energy it stores. | | This is because the particles in liquids and gases move faster when they are heated than they do when they are cold. | |
| The law that says energy cannot be created or destroyed. It can only change how it is stored. | | | hot |

Conduction



Heat energy is conducted through the solid in this way. As the atoms of the solid gain kinetic energy the temperature of the solid increases.

Thermal energy transfer by conduction

Hot materials can transfer thermal energy to other materials that they are touching. This is called **conduction** of thermal energy. As the diagram shows, the particles that are heated increase in kinetic energy when they are heated. They bump into neighbouring particles and pass on (transfer) thermal energy. This is why a table feels warm after a hot cup of tea is lifted from it, and the reason why thermal energy can pass through the bottom of a saucepan to cook your dinner.



German (Term 3) Module 1: Vorbilder – Role Models

Here is the vocabulary you will need for Stimmt 3, Module 1 - term 1

| name parts of the body | der Arm, die Schulter, das Bein |
|--|---|
| understand some instructions | Steh auf! Heb die Hand! |
| use the present tense of some irregular verbs | Sie läuft schnell. Er fährt gern Skateboard. |
| use apostrophes correctly to show possession | Davids Arm; Markus' Arm |
| talk about role models | Rihanna ist mein Vorbild. Sie ist sehr begabt und sing viele Lieder. |
| use weil with correct word order | Jamie Oliver ist mein Vorbild, weil er originell ist. |
| use the present tense of regular and irregular verbs | Er spielt gut Fußball. Sie fährt Rad. |
| use adjectives | Erist begabt. |
| use qualifiers to add detail | Sie ist sehr lustig. |
| 🗡 use some group talk phrases | – Das stimmt! – Was? Quatsch! |
| talk about experiences | Was hast du in deinem Leben gemacht? Ich habe viele Preise gewonnen. |
| use the perfect tense with <i>haben</i> and <i>sein</i> (including irregular past participles) | Ich habe viele Reisen gemacht . Ich bin nach Afrika gefahren . |
| talk about my future plans | In der Zukunft werde ich viel Geld verdienen. |
| use the future tense with <i>werden</i> | Ich werde viele Länder sehen . Sie wird im Ausland leben . |
| use time expressions with correct word order | Ich werde in zehn Jahren Ärztin werden. Später werde ich im Ausland leben . |
| write accurately and assess my spelling and grammar | |
| talk about injuries | Was ist passiert? Ich habe mir das Bein verletzt. |
| use the perfect tense with <i>haben</i> and <i>sein</i> (including irregular past participles) | Ich habe einen Unfall gehabt . Ich bin vom Rad gefallen . |
| say that I've injured/broken something, using the definite article | Ich habe mir das Bein verletzt. Ich habe mir den Arm gebrochen. |
| understand a person's achievements | Er hat eine Goldmedaille gewonnen. |
| 🖋 understand a longer reading text | |
| | ist ins Krankenhaus gekommen = went to hospital |

In this Module you will learn how to:

- Describe people
- Discuss or write about role models
- Talk and write about things that have
 happened
- Talk and write about future events
- Real life: talking about injuries

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Username: openacademy Password: surname900 Go to 'my resources' to find your work.

www.memrise.com

https://app.memrise.com/course/6262551/stimmt-3/1/

Use your Memrise account to practise and learn the vocabulary in this unit and develop what you know (as well as revise what you've done before)



German Term 3

Der Körper • The body

| der Kopf(-e) | head |
|-----------------|----------|
| die Schulter(n) | shoulder |
| der Arm(e) | arm |
| die Hand(¨e) | hand |
| der Rücken(-) | back |
| der Bauch(-e) | stomach |
| der Po(s) | bottom |
| das Bein(e) | leg |
| das Knie(-) | knee |
| der Fuß(-e) | foot |
| | |

Das Gesicht • The face

| das Auge(n) | eye |
|---------------|-------|
| das Ohr(en) | ear |
| die Nase(n) | nose |
| der Mund(-er) | mouth |
| das Kinn(e) | chin |

Strategie 1

How do you know if you really know a word? Ask yourself:

- · Do I know what it means when I see it?
- Can I pronounce it?
- Can I spell it correctly?
- Can I use it in a sentence?
- Work with a partner. Test each other, like a mini Spelling Bee:



2 Now ask your partner to use the word in a sentence:



Turn to page 133 to remind yourself of the five *Strategien* you learned in *Stimmt! 2.*

Charaktereigenschaften • Character traits

| X ist mein Vorbild, weil er/sie ist. | X is my role model/idol because he/she is |
|---|--|
| begabt | talented |
| 0 | |
| berühmt | famous |
| dynamisch | energetic |
| erfolgreich | successful |
| lustig | funny |
| originell | original |
| reich | rich |
| mein(e) | my favourite actor/actress |
| Lieblingsschauspieler(in) | |
| mein(e) | my favourite singer |
| Lieblingssänger(in) | |
| mein(e) | my favourite athlete |
| Lieblingssportler(in) | |
| | |

Was macht er/sie?

What does he/she do?

| Er/Sie läuft schnell. | |
|--------------------------|----|
| Er/Sie fährt schnell Ra | d |
| Er/Sie singt viele Liede | er |
| Er/Sie liest die | |
| Nachrichten. | |
| | |

- He/She runs fast.
 He/She cycles fast.
 He/She sings many songs.
 He/She reads the news.
- Er/Sie ist oft im Fernsehen.

He/She is often on TV.

Er/Sie spielt gut Gitarre. He/She plays guitar well.



Was hast du in deinem Leben gemacht?

What have you done in your life? I have ...

Ich habe ...

travelled a lot viele Reisen gemacht mit Kindern gearbeitet worked with children viele Länder gesehen viele Preise gewonnen viel Geld verdient viel trainiert Tennis/Gitarre gespielt in (Amerika) gewohnt **Biologie studiert** Ich bin nach Afrika gefahren. Ich habe ... Er/Sie hat ... gegessen geschrieben gehabt gesungen getanzt Ich bin nach Amerika gesegelt. Ich bin in viele Tanzstudios gegangen.

seen a lot of countries won lots of prizes earned a lot of money trained a lot played tennis/guitar lived in (America) studied biology I have travelled to Africa. I have ... He/She has ... eaten written had sung danced I have sailed to America. I have been to lots of dance studios.

German Term 3

Zukunftspläne • Future plans

| Ich werde | I will |
|--|-----------------------------------|
| viele Reisen machen | travel a lot |
| viele Länder sehen | see lots of countries |
| Arzt/Ärztin werden | become a doctor |
| im Ausland leben | live abroad |
| Theaterwissenschaft studieren | study drama |
| viel Geld verdienen | earn a lot of money |
| für eine Hilfsorganisatior arbeiten | n work for an aid organisation |

Was ist passiert? • What happened?

| Ich habe mir das Bein verletzt. | l injured my leg. |
|--------------------------------------|----------------------|
| Ich habe mir den Arm gebrochen. | l broke my arm. |
| Ich habe einen Unfall gehabt. | I had an accident. |
| Ich bin vom Rad gefallen. | I fell off my bike. |
| Ich bin ins Krankenhaus gekommen. | I went to hospital. |
| im Schwimmbad | in the swimming pool |

Oft benutzte Wörter High-frequency words Ich liebe ... I love ... I like ... Ich mag ... I don't like ... Ich mag ... nicht sehr very ziomlich

quito fairh

| ziemiich | quite, fairly |
|----------------|---------------|
| SO | SO |
| zu | too |
| nicht | not |
| nie | never |
| später | later |
| dann | then |
| in zehn Jahren | in ten years |
| in der Zukunft | in the future |

Knowledge Organiser: Year 9 Spring Term 1 Part 1 Computational Thinking and Algorithms

Summary

An <u>algorithm</u> is a plan, a logical step-by-step process for solving a problem. Algorithms are normally written as a <u>flowchart</u> or in <u>pseudocode</u>. The key to any problem-solving task is to guide your thought process. The most useful thing to do is keep asking 'What if we did it this way?' Exploring **different** ways of solving a problem can help to find the best way to solve it. When designing an algorithm, consider if there is more than one way of solving the problem.

When designing an algorithm there are two main areas to look at:

The **big picture** - What is the final goal?

The individual stages - What hurdles need to be overcome on the way to the goal?

Before an algorithm can be designed, it is important to check that the problem is completely understood. There are a number of basic things to know in order to really understand the problem:

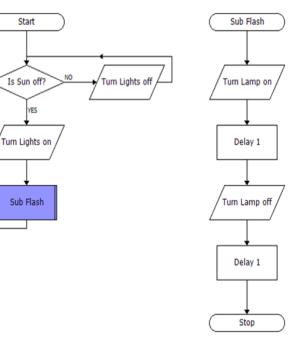
What are the *inputs* into the problem? What will be the *outputs* of the problem?

In what order do <u>instructions</u> need to be carried out? What decisions need to be made in the problem? Are any areas of the problem repeated?

Flowchart—and subroutines



Algorithm



Key Vocabulary

Abstraction

The process of separating and filtering out ideas and specific details that are not needed in order to concentrate on those that are needed.

Algorithm

A diagram that shows a process, made up of boxes representing steps, decision, inputs and outputs.

Decomposition

The breaking down of a system into smaller parts that are easier to understand, program and maintain

Pattern recognition

Finding similarities and patterns in order to solve complex problems more efficiently.

Program

Sequences of instructions for a computer

Programming

The process of writing computer software.

Subroutine

A set of instructions designed to perform a frequently used

operation within a program PseudoCode—uses structured English

INPUT – indicates a user will be inputting something
 OUTPUT – indicates that an output will appear on the screen
 WHILE – a loop (iteration that has a condition at the beginning)

FOR - a counting loop (iteration)

REPEAT - UNTIL - a loop (iteration) that has a condition at the end#

 $\ensuremath{\text{IF}}$ – $\ensuremath{\text{THEN}}$ – $\ensuremath{\text{ELSE}}$ – a decision ($\ensuremath{\underline{\text{selection}}}$) in which a choice is made

Any instructions that occur inside a selection or iteration are usually indented

http://bit.ly/33QDxv3





Year 9 RS: How do Muslims interact with culture and society?

| Key words | | | | |
|-------------|--|--|--|--|
| Allah | The God in Islam | | | |
| Quran | The Holy book in Islam | | | |
| Mosaue | The place of worship in Islam | | | |
| Muhammad | The last prophet in Islam | | | |
| Irham | The set of white clothing that all Muslims wear whilst on Hajj | | | |
| Tawaf | Walking 7 times in an anti-clockwise direction around the Kaaba in Mecca. | | | |
| Mecca | The holy city in Saudi Arabia. | | | |
| Eid ul Fitr | A celebration or festival that occurs at the end of Ramadan. | | | |
| Ramadan | A holy month of fasting and prayer. | | | |

The 5 Pillars of Islam.

- Muslims take an oath to only worship Allah and that they believe that Muhammad is the messenger of Allah.
- Muslims pray 5 times a day.
- Muslims give charity (Zakat) to the poor.
- · Muslims fast during the month of Ramadan.
- Hajj is the pilgrimage to Makkah.

Muslims are monotheistic and worship one, all-knowing God, who in Arabic is known as Allah. Followers of Islam aim to live a life of complete submission to Allah. They believe that nothing can happen without Allah's permission, but humans have free will.

<u>The Shahadah (1ST Pillar)</u>

The Shahadah is the first pillar of Islam It is the belief that there is only one God and that Muhammad is His messenger. The Shahadah is the Muslim declaration of faith in Allah. It is the pillar on which all the other pillars are based. Muslims will say the Shahadah many times during their lives. In particular they will:

 Repeat it many times each day Whisper it into the ear of their new-born baby.

 Teach it to their children as soon as they are old enough to learn it. Hope that it will be the last words to cross their lips before they die.

There is no God but Allah and Muhammad is the messenger' of Allah.'

<u>Salah (2nd Pillar)</u> Salah is the second pillar of Islam, 'Salah' means 'prayer' in Arabic. It is every Muslim's duty to pray to Allah five times a day.

Muslims often stand shoulder to shoulder when praying as a sign of the equality of humans before Allah.

Salah does not have to take place in a Mosque. It can be carried out in any public place as long as:

begins with washing (called wudu). This is a special kind of washing. The place is clean. Muslims use a prayer mat to make sure of this. All prayer mats have a directional arch on them, which is pointed to Makkah.



Hajj (5th Pillar)

Majj is the fifth pillar of Islam. It is a journey to Makkah to take part in a very special ceremony which lasts three to five days.

Every adult Muslim should go on Majj at least once in their life. Some Muslims save for many years to be able to afford to go.

Majj shows that everyone is equal in the eyes of Allah. Everyone wears the same clothes and does the same things.

The Ka'aba is a special building that stands in the centre of Mecca. Thousands of Muslims walking around the Ka'aba at the same time. The walk around it in an anticlockwise direction, seven times.

Majj takes place every year during the month of Ramadan. Pilgrims travel to the city of Makkah from all over the world.

Hajj promotes equality and fellowship amongst Muslims. It creates a sense of belonging and brotherhood amongst them.

They are given special titles after they return from Hajj. A man is called a Hajji and a woman is called a Hajja.

Zakah (3rd Pillar)

Zakah is the third pillar of Islam. It means charity. It is the amount of money that every Muslim who is financially able must pay to support people who are poor and needy. Zakah should be given once a year, and should be paid to a mosque or to Zakah organisations such as Islamic relief or Muslim Mands. Every Muslim must give 2.5% of their surplus money to Zakah. Zakah money helps people less fortunate than those who give it. Paying Zakah is a test of honesty- a Muslim cannot live happily with himself if he does not pay Zakah.

Sawm (4th Pillar)

Sawm is the fourth pillar of Islam. It means fasting. When fasting, Muslims do not eat or drink anything. Muslims practice Sawm by fasting every year in the month of Ramadan. During Ramadan, Muslims fast from until sunset.

By practicing Sawm, a Muslim develops sympathy for suffering. It also demonstrates discipline and obedience to Allah

Muslims do not have to fast if they are under 12, too old, pregnant, breastfeeding, travelling or sick. At the end of each day the family gets together to break their fast as a group. They eat dates and drink water before anything else each night because this is what Muhammad recommended. During Ramadan, Muslims who are fasting will eat a large meal, before the sun rises (dawn) in order to set themselves up for a day without food and water.



Year 9 Design and Technology



 Consume responsibly and be committed to sustainable production.
 Reduce, reuse and recycle.

 Chyper be food you need and the committed to sustainable production.
 Reduce your waste, recycle if and try to give it a second chance.

 Choose fair trade product.
 Choose fair trade production.
 Reduce your waste, recycle if and try to give it a second chance.

 Choose fair trade product.
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 Reduce your waste, recycle if and try to give it a second chance.

 Very trade product.
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 <t

Travel in a sustainable way Travel on public transport, use a bicycle and walk

•Biodegradable materials - this includes food scraps, cotton, wool, wood and biodegradable plastics. Carbon emissions are minimal in the production of biodegradable plastics, but there is a risk of contamination when they are recycled.

•Less material or reduce waste -

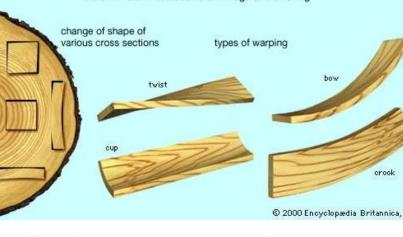
techniques such as **nesting** can help to reduce waste, but it may not be possible to reduce or substitute materials and create a similar standard product





OF SOCIAL ECOLOGY

THE PRINCIPLES







Belt Sander

Metal File

Tenon Saw

These are the key principles of design we will be looking at this term when working in the Workshop. The project is to design and make a RECYCLED palette planter.

Key Questions?

- What is the function of a planter? Will it have any extra practical design features?
- What key aesthetics do you need to consider when designing? Will using recycled materials have an impact on the appearance?
- How will planning and measuring ensure your product is durable enough to work in outside weather conditions?

Word Bank

| Material properties | | Aesthetics | Measurements | | |
|---------------------|-----------|------------|--------------|--|--|
| Template | Product | | | | |
| Analysis | Recycling | Selecting | Refinement | | |
| Surface Treatments | | | | | |

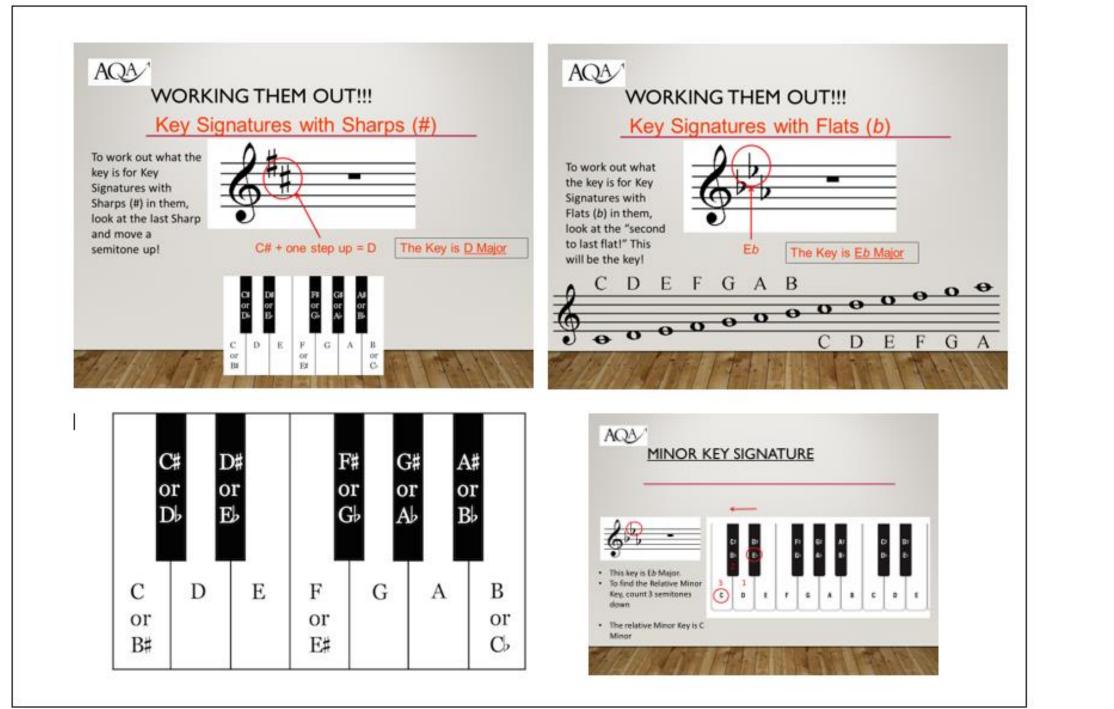


Year 9 Spring Term Knowledge Organiser

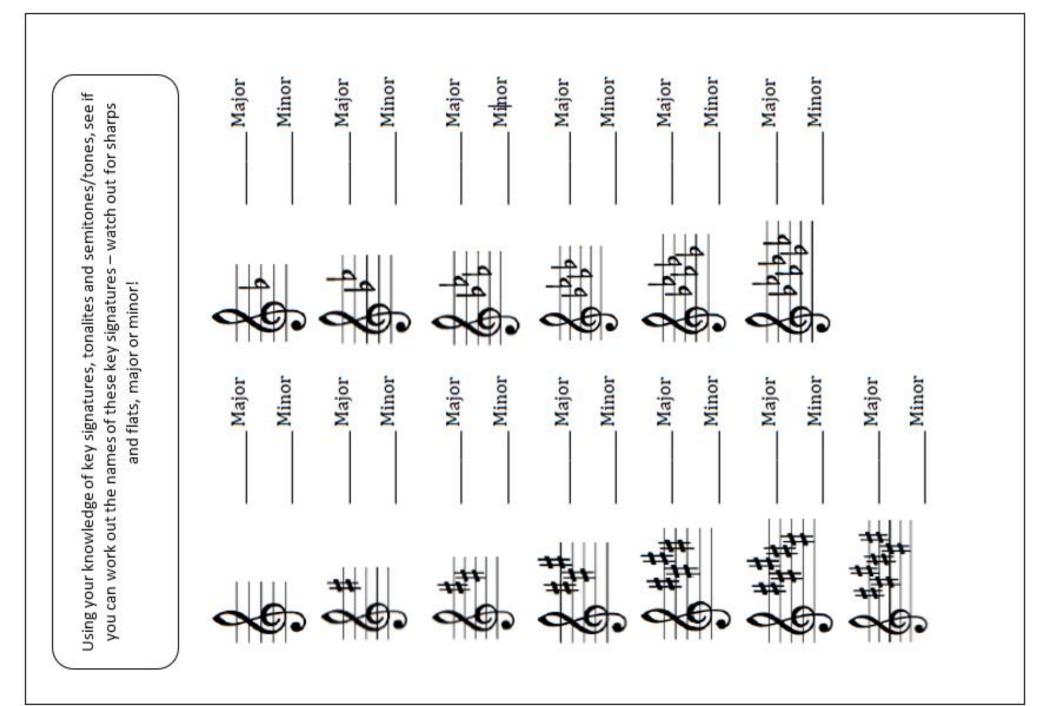
Chord – 2 or more notes played at the same time Semitone – the shortest distance between 2 notes Tone – equal to 2 semitones Major tonality – happy, brighter sounding music based on a specific set of notes in a scale Minor tonality – sad, darker sounding music based on a specific set of notes in a a scale











YEAR 7 PE KNOWLEDGE ORGANISER SPRING TERM 1

Outdoor activity means activities engaged with in the natural environment and commonly involves adventure. These activities are not usually in the PE curriculum as they involve a range of equipment. Not all risk taking is negative. Some risks promote healthy active lifestyles and test comfort boundaries as individuals.

Examples of an Outdoor Activity:

- HIKING
- CANOEING
- MOUNTAINEERING
- ROCK CLIMBING



WHAT IS AN OUTDOOR ACTIVITY?

Benefit of taking part in Outdoor Activities:

 One benefit is that it will improve your confidence. Often Outdoor Activities are not in PE Curriculum so they're going to push you out of your comfort zone and make you learn new skills.



PE KNOWLEDGE ORGANISER SPRING TERM

Duke of Edinburgh is an example of an OUTDOOR ACTIVITY! This is because you take part in a number of expeditions which involve camping, hiking, orienteering in the outdoors.



WHAT IS AN OUTDOOR ACTIVITY?



DUKE OF EDINBURGH

THE DUKE OF EDINBURGH'S

In year 9 you will be offered to take part in Duke Of Edinburgh Bronze award. This is a fantastic opportunity to receive the benefits of outdoor activities.

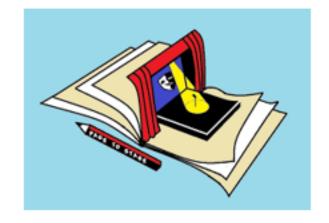
Benefits of Outdoor Activities:

- Improve confidence
- Meet new people
- Improve teamwork
- Learn new skills
- Reduce stress
- Spend time away from electronic devices

Meaning can be communicated both physically and vocally. The following are skills used by actors to interpret and communicate characters' personality and intention.

- Body Language Showing what you feel by the way you stand.
- Gesture how you communicate with your hands and/or arms.
- Facial expression showing what you feel on your face.
- Voice tone the emotion that you are putting into your voice. E.g an angry tone of voice.
- Emphasis where you stress certain words to show meaning.
- Pitch how high or low you are speaking.
- Pace how fast or slow you are speaking.
- Pause Allowing breaks in the speaking
- Accent changing the way you speak to show where you are from.

YEAR 9 DRAMA -INTERPRETING A TEXT





Interpreting a text means taking the words or script written by someone else and find a way of bringing that play to life, some people call it from page to stage.

Exercises which might help you understand a character from a play you are exploring may include:

The given circumstances – Using the ideas of Constantin Stanislavski, think about who the characters are, where the play is set, when the play is set, what has just happened, why the characters are there.

Stage business – thinking about what your character is doing on stage to make the performance more realistic and believable.

Subtext - Dramatic characters as well as *real* people often say one thing but mean another. Their meaning can be very different to the spoken words so that a sarcastic tone and a change of inflection can subvert the surface meaning of the words:

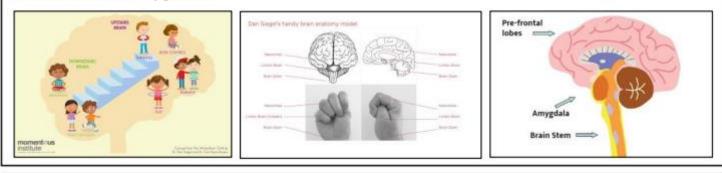
What do you know about the United Kingdom of Great Britain and Northern Ireland?

| Name and flag | Patron Saint | National Flower(s) | National Animal(s) | Coat of Arms | Motto | Anthem plus de facto /alternate |
|---|-----------------|---------------------------------------|-----------------------|---|---|--|
| United Kingdom | • | n does not have or flower. It does | Lion Bull dog | Royal coat of arms of the United Kingdom | Dieu et mon droit meaning "God and my right" The motto is said to have first been used by Richard I (1157–1199) as a battle cry and presumed to be a reference to his French ancestry (indeed he spoke French and Occitan but knew only basic English) It was adopted as the royal motto of | "God Save the Queen" King replaces Queen when a male is on the throne. |
| England | St George | Tudor Rose | Lion | | England by King Henry V (1386–1422) | God Save the Queen / Jerusalem |
| Scotland | St Andrew | Thistle | Unicorn | | <i>In Defens</i> (Scots) "In Defence" | God save the Queen / flower of Scotland |
| Wales | St David | Leek or daffodil | Ked Dragon | | <i>Cymru am byth</i> (Welsh) "Wales forever" | "Hen Wlad Fy Nhadau" (Welsh) "Land of my Fathers" |
| Northern Ireland (currently no flag Ulster banner removed 1973 | St Patrick | Flax or Shamro | None | Many disagree with it as the body that created it is defunct. | Quis separabit? "Who will separate us?" | Londonderry Air |



BRAIN STRUCTURE

Be able to use the hand model and the upstairs/downstairs model to explain the brain. Know the term amygdala.



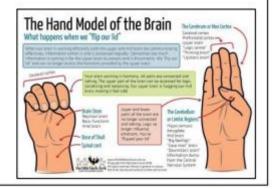
KS3 Knowledge Organiser - The Brain





WHEN OUR BODY PERCEIVES A THREAT

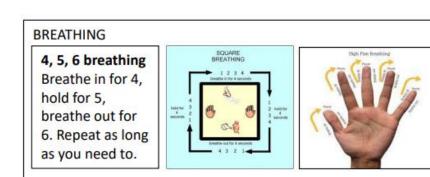
- 1. The amygdala floods our body with the hormones adrenaline and cortisol
- 2. This prompts us to either FIGHT, FLIGHT or FREEZE
- 3. Our heart rate and blood pressure increase
- 4. Our skin pales or flushes
- 5. Our ability to feel pain decreases
- 6. Our pupils dilate
- 7. Our memory might be affected
- 8. We might be trembling
- 9. Sometimes people lose control of their bladder!



| WHERE TO SEEK SUPPORT IF YOU NEED IT | HOW TO HELP YOUR BRAIN | |
|--|---|--|
| Shelf help books in the library or public library Parent or other adult at home Friends Older student Tutor or achievement leader Learning mentor Wellbeing team (Miss Neal, Mrs Freds, Mrs Dobell, Mrs Crissall, Mrs Horne) Mrs Whitcombe or another member of the leadership team School nurse referral Kooth Emotional wellbeing hub Dr Hope Samaritans | LEARN Challenge your brain Be curious and imaginative Deal with stress or anxiety first Drink plenty of water Eat a healthy diet Get enough sleep Take plenty of physical exercise Break your learning into chunks Take brain breaks regularly | |

FIVE WAYS TO WELLBEING Know the five; know what they mean; give examples





WHAT TO DO WHEN YOU WORRY TOO MUCH

- Stop your worries growing by paying less attention to them
- Fight your thoughts with logical answers
- Use planned worry time
- Imagine and deal with a worry monster
- Re-set your system with exercise
- Re-set your system with relaxation techniques









Keepíng <mark>everybody</mark> safe at Open Academy



We aim to keep everyone in our community safe. If you feel worried about yourself or someone else, please speak to someone you trust as

soon as you can. Please find your trusted adult in the academy who will be there to support you and listen.

What is abuse in safeguarding concerns?

Physical Abuse

Physical abuse is any way of intentionally causing physical harm to a person or purpose. This could result in injuries such as in bruises, broken bones, burns or scalds or bite marks.

Emotional Abuse

Emotional abuse is any type of abuse that involves the continual emotional mistreatment of a person. It's sometimes called psychological abuse. Emotional abuse can involve deliberately trying to scare, humiliate, isolate or ignore and stopping you from seeing friends or family.

Sexual Abuse

When a child or young person is sexually abused, they're forced or tricked into sexual activities without permission. This include being forced to look at images or videos. Sexual abuse can happen anywhere – and it can happen in person or online.

Neglect

Neglect can be a lot of different things. It is when you do not get enough help or care from someone who should be looking after you. This could include having a lack of food, clothing and attention and medical care.

Bullying

Bullying is behaviour that hurts someone else. It includes name calling, hitting, pushing, spreading rumours, threatening or undermining someone. It can happen anywhere – at school, at home or online. Online bullying is called Cyber-bullying. It's usually repeated over a long period of time and can hurt a child both physically and emotionally.

County Lines

County Lines is the police term for urban gangs exploiting young people into moving drugs from a hub, normally a large city, into other markets - suburban areas and market and coastal towns - using dedicated mobile phone lines or "deal lines". Children as young as 12 years old have been exploited into carrying drugs for gangs. This can involve children being trafficked away from their home area, staying in accommodation and selling and manufacturing drugs.

Radicalisation

Someone who starts to believe in or supports extreme views linked to terrorism and forms of extremism leading to terrorism. Extremism can also be linked to this as extreme views, vocal or active opposition to fundamental British values, including democracy, the rule of law, mutual respect and tolerance of different faiths and beliefs.

Where do I go for help and advice?

Speak to any adult in school such as your Head of Year or Mr Davis, Miss Milroy, Mr Richardson or Mr Ford. Advice can be found on the NSPCC website by scanning the QR code at the top of this page. You can also go to <u>www.childline.org.uk</u> or call 0800 1111.