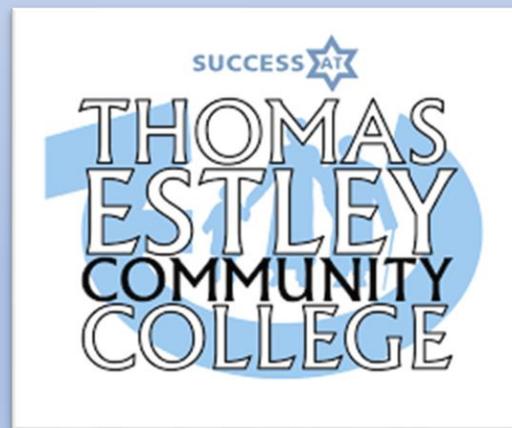


# Thomas Estley Community College

## Year 8 Summer Term

### Knowledge Organiser



## What are Knowledge Organisers?

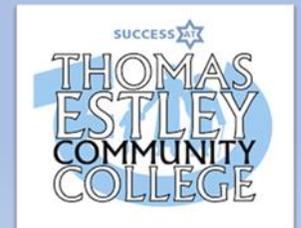
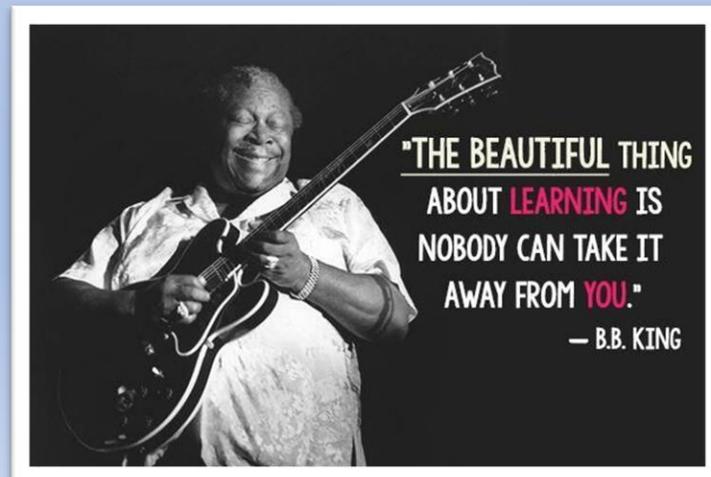
A knowledge organiser is an easy way that each subject can summarise the most important information. Each subject section will include key terms, short explanations, glossary words, diagrams etc making it clear to the student as to what is essential to learn. Each grid has an overall theme and these vary according to the subject being taught.

It will be the students responsibility to keep the knowledge organisers safe and refer to them over the whole academic year.

## How will these be used at Thomas Estley?

At Key stage 3, you will be given a knowledge organiser each term. You need to keep these safe in your learning packs that you were provided with at the start of the academic year.

Your subject teachers will use these in a variety of ways, for both class work, remote learning opportunities and homework. They will be used to help with revision for class quizzes and retrieval practice activities. They will also be used for flip learning activities, where subject teachers will ask you to learn some information and then go in to it in more detail in class.



# Revision Tips and Tricks!

## Record It

Record yourself on your phone or tablet reading out the information. These can be listened to as many times as you want!



## Teach it!

Teach someone your key facts and then get them to test you, or even test them!



## Flash Cards

Write the key word or date on one side and the explanation on the other. Test your memory by asking someone to quiz you on either side.

## Hide and Seek

Read through your knowledge organiser, put it down and try and write out as much as you can remember. Then keep adding to it until its full!



## Back to front

Write down the answers and then write out what the questions the teacher may ask to get those answers.



## Post its

Using a pack of post-it notes, write out as many of the keywords or dates as you can remember in only 1 minute!



## Practice!

Some find they remember by simply writing the facts over and over again.

## Read Aloud

Simply speak the facts and dates out loud as you're reading the Knowledge Organiser. Even try to act out some of the facts – it really helps you remember!



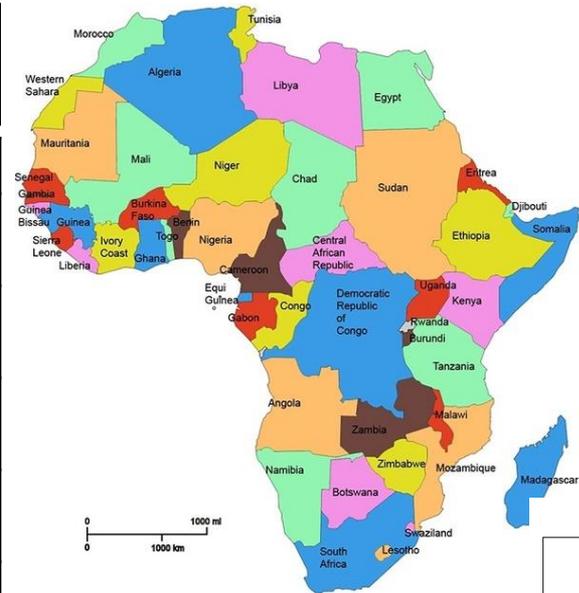
## Sketch it

Draw pictures to represent each of the facts or dates. It could be a simple drawing or something that reminds you of the answer.

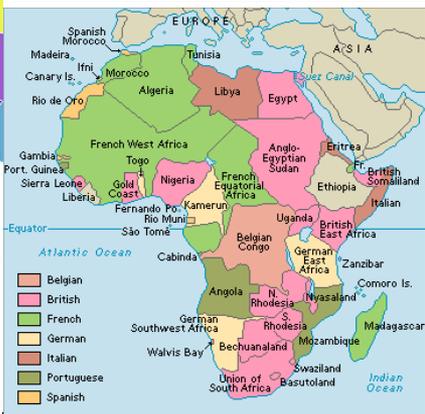
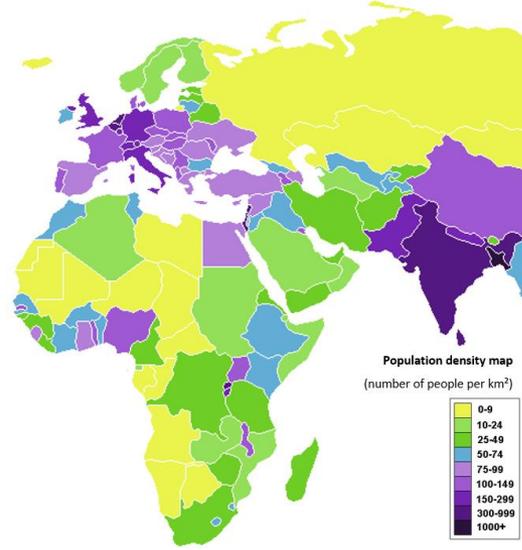
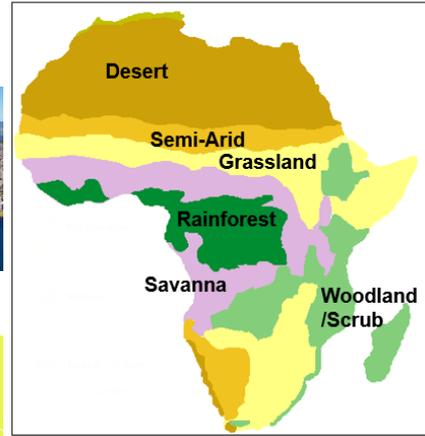
# Geography Knowledge Organiser

## Year 8: Africa

| Key Word           | Definition   |
|--------------------|--|
| Africa             | One of the seven continents of the world, made up of fifty-four countries.                     |
| Political Map      | A map that shows countries and cities. Often they use false colours to show this clearly.      |
| Climate Graph      | A graph which shows the climate of a place including temperature and precipitation.            |
| Biome              | A very large ecosystem which occupies a major climatic region.                                 |
| Colonisation       | The action of settling among and establishing control over the indigenous people of an area.   |
| Population Density | The number of people per square kilometre.   |
| Culture            | Ideas, customs and social behaviour of particular people or society.                           |
| Ethnic Group       | A community or population made up of people who share a common cultural background or descent. |
| Civil War          | A war between citizens of the same country.  |
| Natural Resources  | Materials or substances occurring in nature which can be exploited for economic gain.          |
| Trade              | The buying and selling of goods and services between countries.                                |
| Fairtrade          | Trade where a fair prices are paid to the producers.   |



Biomes of Africa

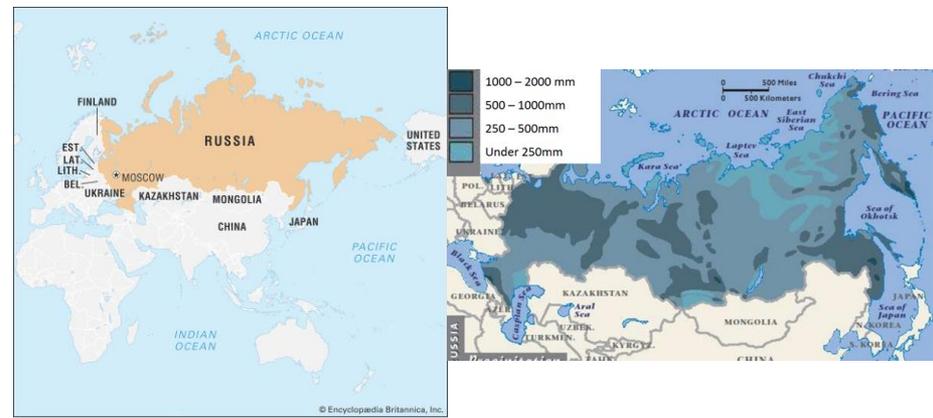


**Useful website...**  
<https://www.britannica.com/place/Africa>

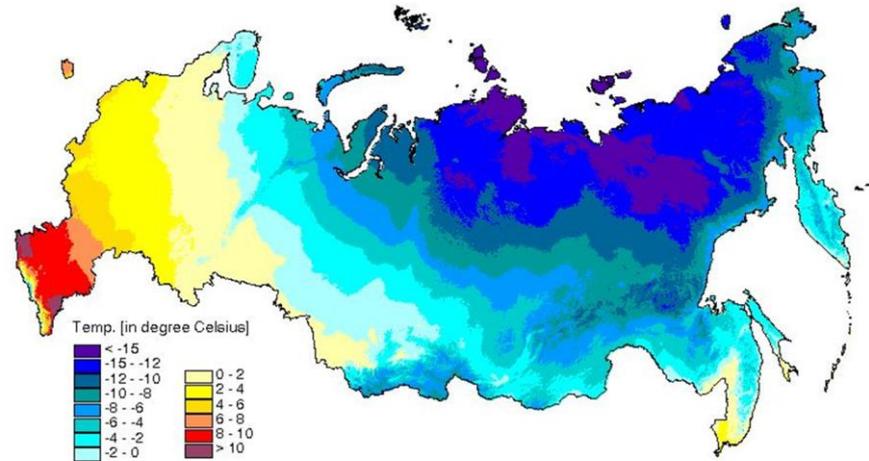
# Geography Knowledge Organiser

## Year 8: Russia

| Key Word            | Definition  |
|---------------------|---|
| Annual              | Another way of saying 'every year'.   |
| Choropleth Map      | A map that uses colour to show changes over space.  |
| Population Density  | The average number of people that live in an are, given as a number per km <sup>2</sup> .   |
| Tundra              | The name of a biome in northern Russia. It has a thin layer of permafrost.  |
| Permafrost          | A layer of permanently frozen ground with a thin active layer that melts in the short summer and allows for the growth of vegetation. |
| Coniferous Forest   | Trees keep their needles all year to maximise opportunities for photosynthesis.   |
| Steppe (or Prairie) | Temperate grassland across the Eurasian Plain. Important area of food production.   |
| Fossil Fuels        | A term which refers to coal, oil and natural gas. These are non-renewable sources of energy.  |
| Renewables          | A term which refers to energy from 'green' sources e.g. wind, solar and wave. These will not run out!                                 |
| Chernobyl           | The name of a city in modern-day Ukraine which had a nuclear disaster in 1986.  |



**Mean Annual Temperature in Russia**



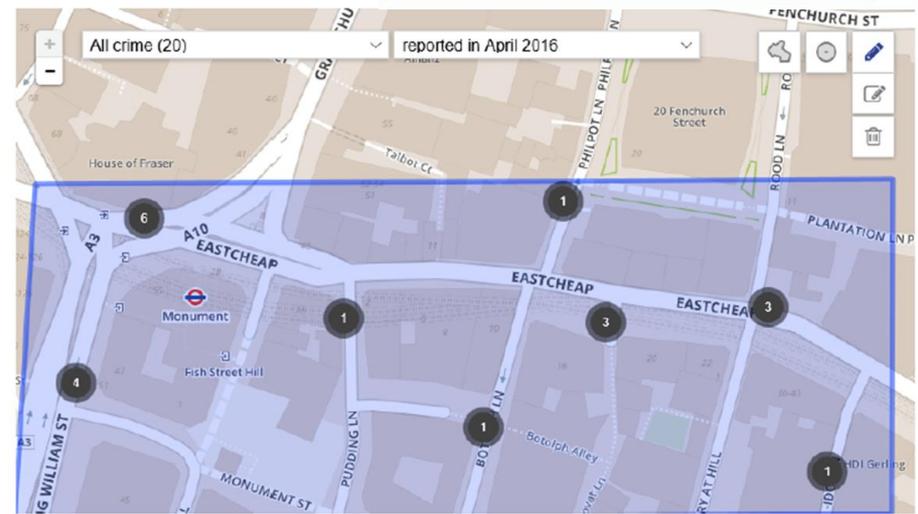
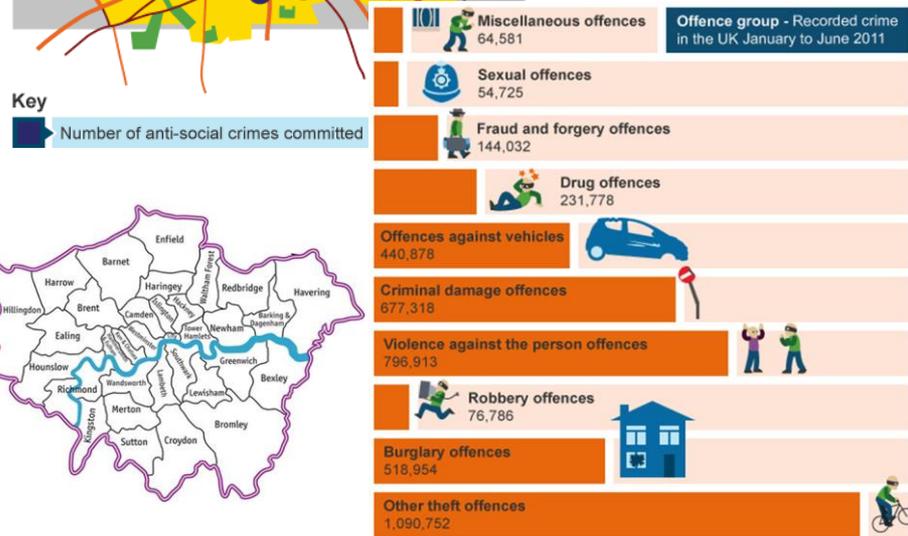
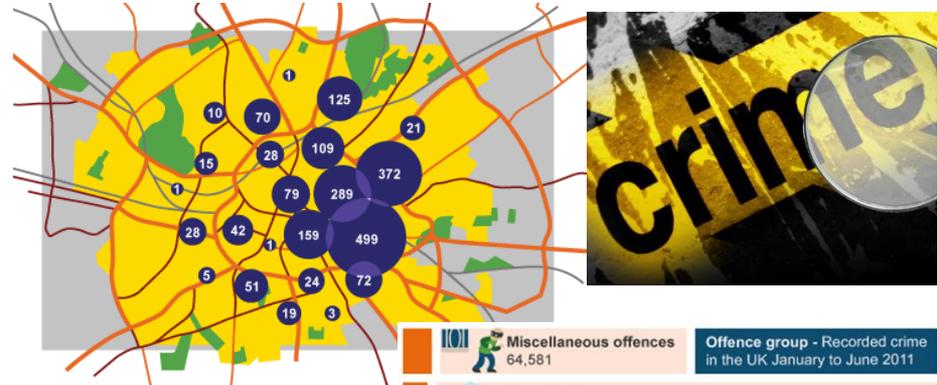
**Useful websites...**

<https://www.britannica.com/place/Russia>

# Geography Knowledge Organiser

## Year 8: Geography of Crime

| Key Word              | Definition  |
|-----------------------|---|
| Crime                 | An action or omission which constitutes an offence and is punishable by law.  |
| Source Analysis       | Gaining information and insights from a picture, graph, map, report, speech etc.                                      |
| Victim                | A person harmed, injured, or killed as a result of a crime, accident, or other event or action.                       |
| Perpetrator           | A person who carries out a harmful, illegal, or immoral act.  |
| Defensible Space      | An area which can be easily monitored for crime.  |
| Crime Hotspot         | An area with a high level of crime compared to the surrounding areas.   |
| Demographics          | Statistical data relating to the population and particular groups within it. You can think of this as People and Age! |
| Borough               | A town or district which is an administrative unit. 32 local authority districts that make up Greater London.         |
| Prevention            | How to stop (or substantially reduce) the risk of something happening.  |
| Cost Benefit Analysis | Working out whether there are more advantages or more disadvantages to doing something.                               |



**Useful websites...**  
<https://www.bbc.co.uk/bitesize/topics/zy8xpv4>  
<https://www.police.uk/>

# Computing: Developing for the Web

Hyper Text Markup Language (HTML) is a basic programming language for building web pages. It uses a set of predefined **tags** that the web browser then interprets and displays.

The World Wide Web is responsible for standardising HTML and releasing updated specifications that revise existing tags and introduce new tags. Web pages contain different types of information including images, text and multimedia.

## Key Vocabulary

**Web Browser:** An application used to view webpages eg Google Chrome, Firefox, Microsoft Edge, Safari, Internet Explorer.

**HTML:** (Hyper Text Markup Language) Used to write and create web.

**Hyperlink:** A link in a document or webpage that connects to another location.

**Internet:** A global network connecting millions of computers together.

**Website:** A webpage or group of webpages hosted on a web server and viewed in a web browser,

## Using HTML to create websites

HTML can be written in a simple text editor like Notepad. As long as it is saved with file extension.html eg: myfirstwebpage.html it can be opened and viewed as a webpage from a browser.

```
<html>
  <body>
    <h1> My First Web page </h1>
    <p> This is my very first web page
      that I have created using Notepad </p>
  </body>
</html>
```

## Key Facts

- Web pages contain different types of information including images, text and multimedia.
- There is no central storage for websites.
- The World Wide Web (WWW) is a huge collection of websites that we can access using the internet.
- Each website contains web pages which are navigated via hyperlinks.

## HTML Tags:

|                       |  |
|-----------------------|--|
| <b>&lt;html&gt;</b>   | States that the document is a HTML document .                    |
| <b>&lt;body&gt;</b>   | Information appears in the body of the page.                     |
| <b>&lt;h1&gt;</b>     | The main heading for the web page.                               |
| <b>&lt;p&gt;</b>      | The beginning of a new paragraph.                                |
| <b>&lt;img&gt;</b>    | Image for web page and file type of image example: Jpg, Png, gif |
| <b>&lt;br&gt;</b>     | Add a blank line   |
| <b>&lt;a href&gt;</b> | A link to other web sites  |

## Ranking algorithm

Used to rank the importance of web pages and considers:

- when the page was last updated
- webpages that link to a found page
- other webpages that a found page links to

## Gathering information

- Search engines use programs known as **crawlers** or **spiders** to find content on the World Wide Web.
- These crawlers visit links from one web page to another, recording common keywords that they find.
- By travelling along these links, the crawlers can eventually find newly created content.

## Indexing

When crawlers finish their journey, they are stored in a data structure called an index.

The index records the following about each web page:

- Frequently used keywords
- Type of content found, (images, text, etc.)
- Date of last update

## CSS Cascading style sheets:

- HTML defines the structure and content of your web page.
- CSS defines the style and layout of web pages.
- CSS can be used to change the style of a whole website, one web page or a single occurrence of an element, e.g.

```
<h1 style="text-align:center">
```

OR

```
body {  
  color: green;  
}
```

## Threats to networks

**Trojan Horse:** Programs designed to lock you out of your computer and not let you access the data unless you pay a ransom

**Virus:** A malicious program that hides inside other files that users might believe are harmless

**Spyware:** Installed without you knowing and used to track all your activity when you browse the World Wide Web

**Ransomware:** Executable code that when run damages the files and stops the computer from operating normally

**Worm:** Exploits the vulnerabilities of a system by finding holes in its security

**Phishing:** Steal people's personal information using fake emails from real organisations

## What happens when I view a web page?



## Controlling searches

The image shows three search engine results for the query 'Edinburgh OR castle'. The first result shows 'About 1,160,000,000 results'. The second result shows 'About 179,000,000 results'. The third result shows 'About 4,230,000 results'.

**OR operator**  
Finds pages with either Edinburgh or castle on them.

**NOT operator**  
Finds pages with Edinburgh, but removes those with word castle.

**Phrase search**  
Pages found that only have "Edinburgh castle" on them, in that order.

# Computing:

## Introduction to Python

Python is a **text based programming language**. That can be used to create programs, games, applications and much more!

A **program** is a set of precise instructions, expressed in a **programming language**.  
**Translating** the programming language is necessary for a machine to be able to **execute** the instructions.

To execute a Python program, you need a **Python interpreter**.

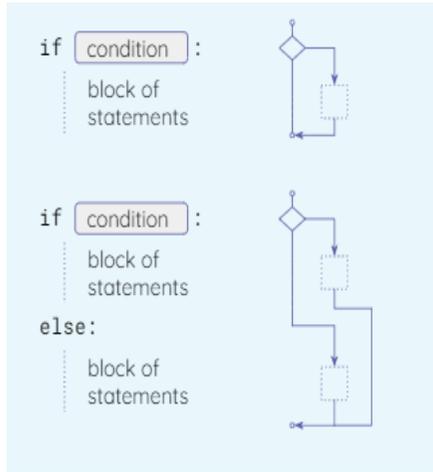
This is a program that translates and executes your Python program.

A **selection** statement allows a computer to **evaluate** whether an **expression** is 'true' or 'false' and then perform an action depending on the outcome.

You will need an **if** or an **if, else**:  
 when there is **more than one possible path** for your program to follow.

**Syntax Errors**

All programming languages have rules for **syntax**, i.e. how statements can be assembled. Programs written in a programming language must follow its syntax. Programs with **syntax errors** cannot be translated and executed.



| Useful snippets of code    |  |
|----------------------------|--|
| print ("Year 9")           | Will display the string "Year 9"   |
| input ()                   | Reads a line of text from the keyboard and returns                       |
| variable name = expression | Allows an expression to be assigned to a variable. E.g. year=1944        |
| Name=[item1, item2, item3] | Allows creation of a list e.g. shopping = ["oranges", "apples", "pears"] |

**Some data types**

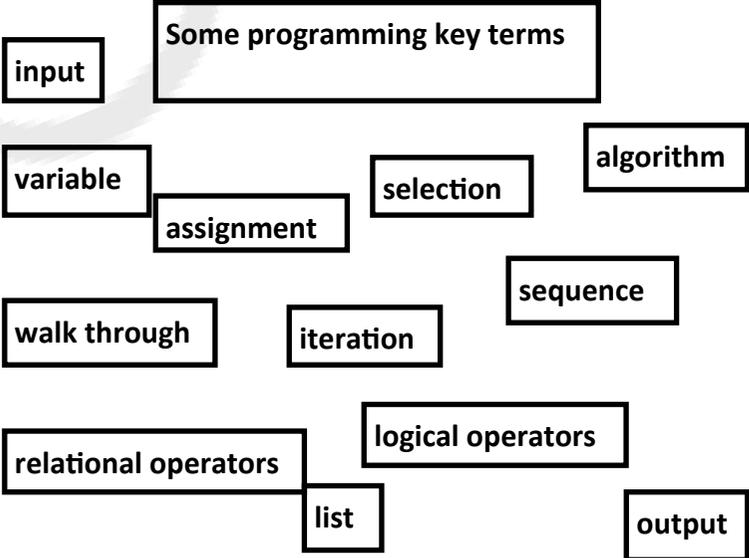
Whole numbers—**integer**

Yes/no or True/False—**boolean**

Letters, combination of letters, numbers—**string**

**Arithmetic operators**

- + addition
- difference
- \* multiplication
- / division
- // integer division
- % remainder of integer division
- \*\* exponentiation (to the power of)



You can use multiple branches using **if, elif and else**

Python helps by telling the programmer where the error is. So if you see red error text—read it first.

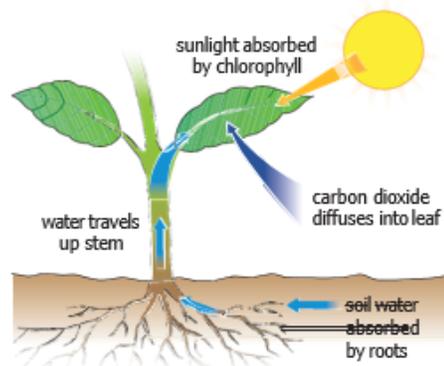
- Some common syntax errors in selection**
- use if and else—no capitals
  - A colon : is always required after the if condition and after else.
  - Use **indentation** to indicate which statements 'belong' to the if block and the else block.
  - The == operator checks for equality.
  - A single = is only used in assignments

## Photosynthesis

- **Photosynthesis** is the process which occurs in the chloroplasts to produce glucose using sunlight

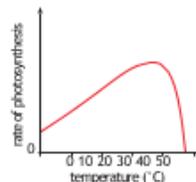
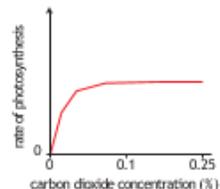
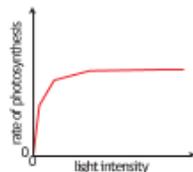
glucose + carbon dioxide → glucose + oxygen

- Any organism that can use photosynthesis to produce its own food is known as a **producer**, these are not just limited to plants but can include other organisms such as **algae**



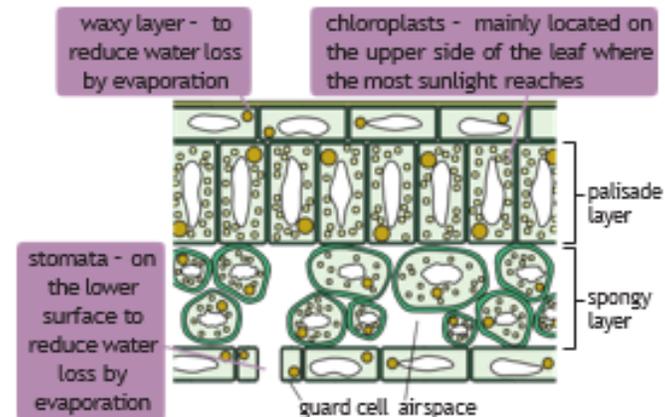
- The rate of photosynthesis can be affected by:

- Light intensity – the higher the light intensity the higher the rate of photosynthesis up to a point
- Carbon dioxide concentration – the higher the carbon dioxide concentration the higher the rate of photosynthesis up to a point
- Temperature – the optimum temperature is the temperature at which photosynthesis occurs at the highest rate, before and after this the rate will be less



## Leaves

- To best adapt for photosynthesis leaves have a number of adaptations
- They are thin to allow the most light through
- There is a lot of **chlorophyll** to absorb light
- They have a large surface area to absorb as much light as possible



B4

Plants

Activate  
Question • Progress • Succeed

Knowledge organiser

## Plant minerals

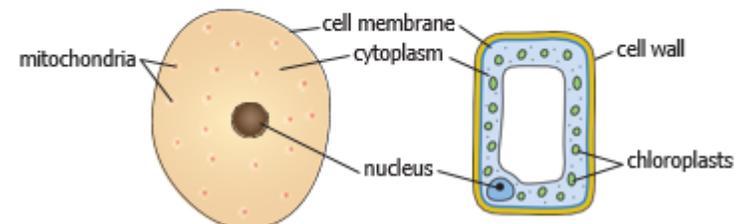
Plants need minerals for healthy growth, if they do not have enough of these minerals this is known as a **mineral deficiency**

| Mineral                               | What is it used for?       | What happens if there is not enough?    |
|---------------------------------------|----------------------------|---|
| <b>nitrate</b> (contain nitrogen)     | healthy growth             | poor growth and older leaves yellow     |
| <b>phosphate</b> (contain phosphorus) | healthy roots              | poor growth, younger leaves look purple |
| <b>potassium</b>                      | healthy leaves and flowers | yellow leaves with dead patches         |
| <b>magnesium</b>                      | making chlorophyll         | leaves will turn yellow                 |

Fertilisers can be used to stop plants from suffering with mineral deficiencies

## Plant and animal cells

- To be able to **observe a cell** we need to use a **microscope**, this magnifies the cell to a point to which we can see it
- Plant and animal cells have small structures inside known as **organelles**, each of these performs a certain role which allows the cell to survive



## Respiration

- Respiration is the process in which energy is released from the molecules of food which you eat
- Respiration happens in the mitochondria of the cell
- **Aerobic respiration** involves oxygen, it is more efficient as all of the food is broken down to release energy  

$$\text{glucose} + \text{oxygen} \rightarrow \text{carbon dioxide} + \text{water}$$
- The glucose is transported to the cells in the blood **plasma**
- The oxygen is transported to the cells in **red blood cells**, by binding with **haemoglobin**
- Carbon dioxide is a waste product and is transported from the cells to the lungs to be exhaled



### Key terms

Make sure you can write definitions for these key terms.

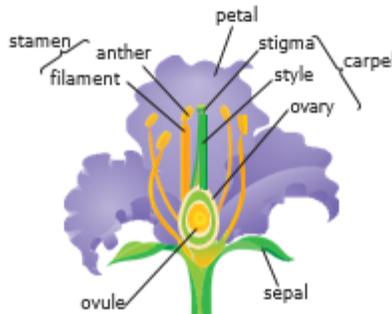
Algae Anther Chlorophyll Chloroplast Fertiliser Light intensity  
 Magnesium Mineral deficiency Nitrates Palisade cells  
 Phosphates Photosynthesis Potassium Producer Rate  
 Spongy layer Stomata Waxy layer

## Parts of a flower

### Stamen

Male part of the flower

- The **anther** produces **pollen**
- The **filament** holds up the anther



### Carpel

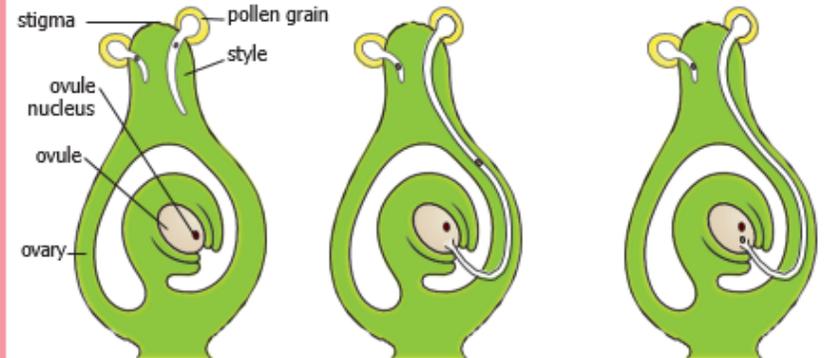
Female part of the flower

- The **stigma** is sticky to catch grains of pollen
- The **style** holds up the stigma
- The **ovary** contains **ovules**

## Pollination and fertilisation

**Pollination** is the **fertilisation** of the ovule, the point at which the pollen is transferred to the ovule from the anther to the stigma, there are two types of pollination

- Cross pollination is between two different types of plant
- Self pollination happens within the same plant



The tube grows out of the pollen grain and down through the style.

The pollen nucleus moves down the tube.

The pollen nucleus joins with the ovule nucleus. Fertilisation takes place and a seed will form.

**Germination** is the process in which the **seed** begins to grow, for this to occur the seed needs:

- Water to allow the seed to swell and grow and for the embryo to start growing
- Oxygen for that the cell can start respiring to release energy for germination
- Warmth to allow the chemical reactions to start to occur within the seed

B4

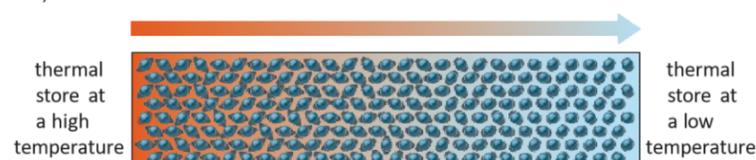
Plants

Knowledge organiser

Activate  
Question • Progress • Succeed

## Conduction

- **Conduction** is the transfer of thermal energy by the vibration of particles, it cannot happen without particles
- This means that every time particles collide they transfer thermal energy
- Conduction happens effectively in solids as their particles are close together and can collide often as they vibrate around a fixed point
- Metals are also good **thermal conductors** as they contain electrons which are free to move
- In conduction the thermal energy will be transferred from an area which has a high **thermal energy store** (high temperature) to an area where there is a low thermal energy store (low temperature)
- Gases and liquids are poor conductors as their particles are spread out and so do not collide often, we call these **insulators**

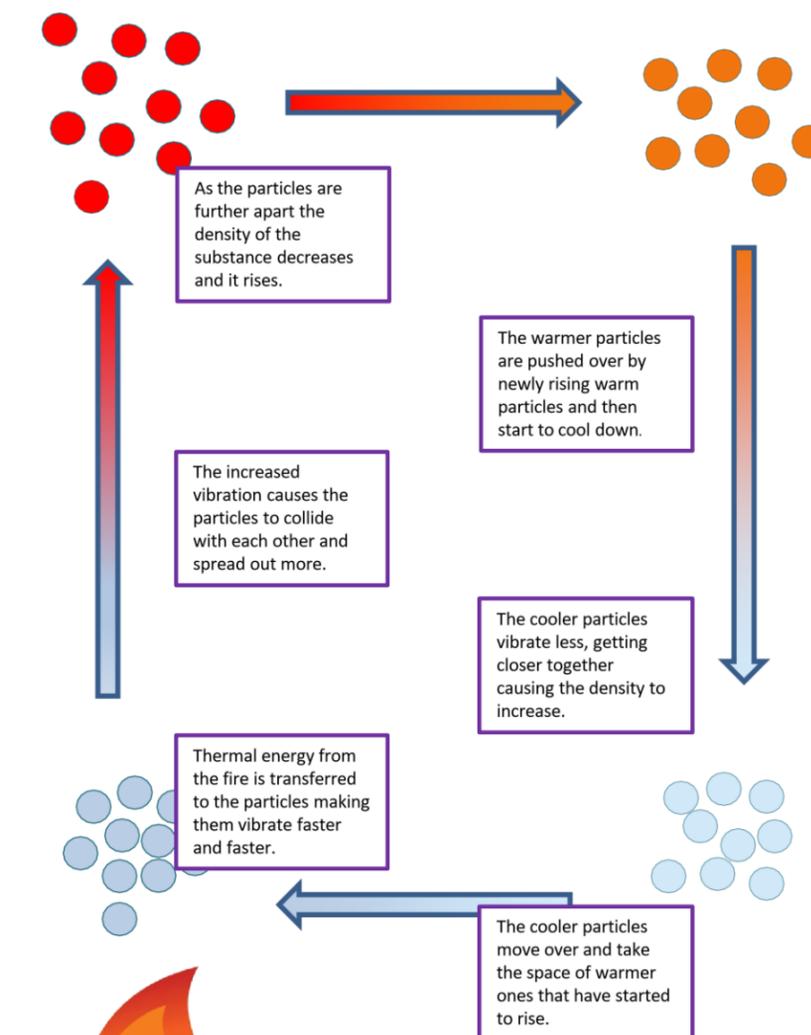


## Convection

- **Convection** is the transfer of thermal energy in a liquid or a gas, it cannot happen without particles
- As the particles near the heat source are heated they spread out and become less dense, this means that they will rise
- More dense particles will take their place at the bottom nearest the heat source creating a constant flow of particles
- This is known as a **convection current**
- Convection cannot happen in a solid as the particles cannot flow, they can only move around a fixed point



## Convection currents



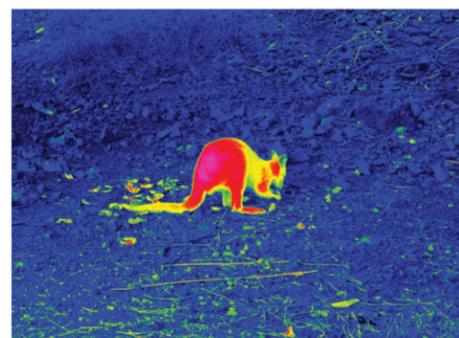
- Convection currents can be seen in any fluid as it gets heated. Most commonly you will see them in the air around us. As the sun heats the air convection currents cause air to rise. The air that moves in to take its place is what we call wind.

## Energy and temperature

- The **temperature** of a substance is a measure of how hot or cold it is
- Temperature is measured with a **thermometer**, it has the units of degrees Celsius (°C)
- The **thermal energy** of a substance depends on the individual energy of all of the particles, it is measured in Joules (J)
- As all particles are taken into account, a bath of water at 30 °C would have more thermal energy than a cup of tea at 90 °C as there are many more particles
- The faster the particles are moving, the more thermal energy they will have
- When particles are heated they begin to move more quickly
- The energy needed to increase the temperature of a substance depends on:
  - the mass of the substance
  - what the substance is made of
  - how much you want to increase the temperature by

## Radiation

- **Radiation** is a method of transferring energy without the need for particles
- An example of radiation is thermal energy being transferred from the Sun to us through space (where there are no particles)
- This type of radiation is known as **infrared radiation**, it is a type of wave just like light
- The hotter an object is the more infrared radiation it will emit (give out)
- The amount of radiation emitted and absorbed depends on the surface of the object:
  - Darker matte surfaces absorb and emit more infrared radiation
  - Shiny and smooth surfaces absorb and emit less infrared radiation, instead reflecting this
- The amount of infrared radiation being emitted can be viewed on a **thermal imaging camera**



### Keyterms

Make sure you can write definitions for these key terms.

conduction    convection    convection current    density    insulator    infrared radiation    temperature  
 thermometer    thermal conductor    thermal energy store    thermal imaging camera    density

# KNOWLEDGE ORGANISER



# Horror Manor



Year 8  
Summer 2

## Context

### Ghost stories

**Ghost story**, a tale about ghosts. More generally, the phrase may refer to a tale based on imagination rather than fact. Ghost stories exist in all kinds of literature, from folktales to religious works to modern horror stories, and in most cultures.

## Elements

### Supernatural

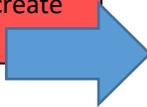
The word **supernatural** (from Latin: *supernātūrālis*) is used for things that some people believe are real, but that are not part of nature or inexplicable by the scientific laws of nature. Because we cannot prove whether these things are real, people often disagree about these things.

### Setting

Choosing a location in a ghost story is the first and best way of creating a haunting atmosphere. Isolated, lonely places, buildings with unhappy histories, places where something terrible has happened regularly crop up in ghost stories for a reason. As well as using recognisable settings such as haunted house and fright night clichés, think how you can add an original twist to familiar ghost story tropes to give an original spin to your ghost story



How can an actor create tension?



The lack of movement can have just as much impact as movement. A **freeze frame** or **still image** with an emotional stillness can be very powerful. The power comes from the interruption of what is natural. We expect movement, so stillness is an implicit shock. It makes us look at what is happening, taking the time afforded by the stillness to interpret the action. This can also be used for **marking the moment** to explore a key moment in time. It also creates contrast and varies pace, keeping the work interesting.

## Creating Your Production



A **soundscape** is a series of sounds created by students (not words, echoes, repetition, or speaking together) that create a setting or suggest a scene. Sounds could range from wind, to creaking boards, to laughter. Gestures are optional.

### Ghostly sounds effect and ambiances

When it comes to ghostly sounds low mid and high frequencies are what we're after. Good source sounds are e.g. metal or wood squeaks, metal scrapes and moans. Also effective are whistling winds, squeaky doors and vocalizations of course (especially children's voices).

There are many 'standard tools' for blood soaking, bone cracking sound effects. These tools mostly are vegetables and other kinds of food. Take bone breaks, for example. You want to use something crunchy and snapping. For this I'd highly recommend Chinese cabbage or celery. Single leaves or sticks make great bone-snapping sounds when broken fast.

## Techniques an actor can use to prepare for their role

### Hot Seating

A widely used and very effective Drama strategy. Questions are asked to someone sitting in the 'hot-seat' who answers in character.

### Dramatic Monologue

a speech or narrative by an imagined person, in which the speaker inadvertently reveals aspects of their character while describing a particular situation or series of events.

# KNOWLEDGE ORGANISER



# Teenage Runaways

Year 8  
Summer 1

## Why Issue-Based Drama?

'Theatre, as the most public of art forms, has a particular part to play in the collective exploration of ideas, values and feelings – as a space and place in which society might be reshaped through the imagination.' (Nicholson 2005: 19)

- Greek Theatre
- Developing insight/understanding/empathy
- Transformation/Change
- Creates discussion
- Sensitive way to approach difficult topic

Individuals often become homeless as a result of extreme personal difficulties, which may take the form of:

- A troubled childhood
- Mental or physical illness
- Involvement in crime, which may have commenced at an early age
- Substance misuse
- Relationship breakdown
- Victimisation by violent crime
- Bankruptcy
- Ejection from the home of a relative or friend
- Eviction from a rented property



**Crisis**

We are the national charity for homeless people. We help people directly out of homelessness and campaign for the changes needed to solve it altogether.

We protect, support and nurture the UK's most vulnerable children no matter who they are or what they have been



**Barnardos**

Throughout the piece you will be asked to write in role. This may be as a diary entry or a stream of consciousness piece of writing. You will also have to compile reports and look at how the authorities try to deal with teenage runaways; finding positive and nurturing ways of helping people.



give homeless young people a future

- Provide a warm, safe room for a homeless young person, giving them the stability and security they need to overcome past trauma and begin a new life
- Support young people with counselling, health support and practical advice
- Give young people the skills they need to find a job, or support them into education
- Help young people move on independently, rebuilding their lives and relationships

## Other Key Forms of Theatre that you will Explore

### Documentary Theatre

**Documentary theatre** is theatre that uses pre-existing **documentary** material (such as newspapers, government reports, interviews, journals, and correspondences) as source material for stories about real events and people, frequently without altering the text in performance.

### Promenade Theatre

As a genre, promenade theatre is extremely versatile. With no formal stage, and the audience and actors occupying the same space, it allows for experimentations with both new and old plays, and explores what the theatrical experience can entail for an audience. In moving the audience around throughout the performance, promenade theatre also pushes boundaries of setting in a way that can't be achieved in regular theatre.

### Monologue

Characters express their thoughts through monologues, and use them to deliver important speeches to the audience and other characters. They can be used to share feelings, plans, anxieties—anything that a character needs to communicate that can only be accomplished through speech.



# Biology Topic B5 + B6

## Communicable Diseases

KNOWLEDGE

ORGANISER

### Section 4: Preventing Infections

|                                    |  |
|------------------------------------|--|
| Hygiene                            | Hand washing, disinfectants on work surfaces, keeping raw meat away from food  |
| Isolation of infected individuals  | Infected individuals kept separate from healthy individuals  |
| Destroying and controlling vectors | By killing or controlling vectors e.g. mosquitos, aphids, rodents etc the spread of disease is reduced                           |
| Vaccination                        | Body is injected with a small amount of inactive pathogen. If you are infected your body has developed immunity to the pathogen. |

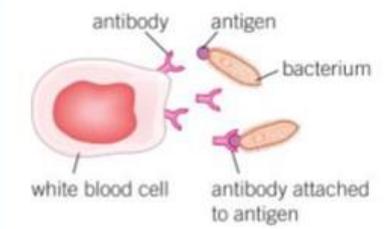
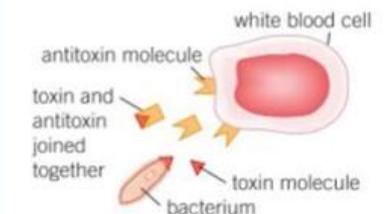
### Section 6: Clinical Trials

| Trial Stage                  | Purpose  |
|------------------------------|--|
| Preclinical – cells, animals | Test for <b>toxicity</b> and <b>efficacy</b> before testing humans   |
| Healthy volunteers           | <b>Very low doses</b> to test for <b>toxicity</b> .  |
| Patients                     | Larger groups. Test for <b>toxicity, efficacy</b> and <b>dose</b> . <b>Placebos</b> may be used in a <b>double-blind trial</b> . |

### Clinical Trial Key Terms

|                    |  |
|--------------------|--|
| Placebo            | A drug with <b>no active ingredients</b> , designed to <b>mimic a real drug</b> . Used to test if the effects of a drug on a patient are just <b>psychological</b> . |
| Double-blind trial | The volunteers do not know which group they are in, and neither do the researchers, until the end of the trial   |
| Toxicity           | How <b>harmful</b> the drug is. May have dangerous <b>side effects</b> .   |
| Efficacy           | How <b>effective</b> the drug is.  |
| Dose               | The <b>amount</b> of the drug given to the patient.  |

### Section 5: Ways in which white blood cells destroy pathogens

| Role of white blood cell   | How it protects you against disease   |
|--|---|
| <b>Ingesting microorganisms</b><br> | Some white blood cells ingest (take in) pathogens, digesting and destroying them so they cannot make you ill.   |
| <b>Producing antibodies</b><br>     | Some white blood cells produce special chemicals called antibodies. These target particular bacteria or viruses and destroy them. You need a unique antibody for each type of pathogen. When your white blood cells have produced antibodies once against a particular pathogen, they can be made very quickly if that pathogen gets into the body again. This stops you getting the disease twice. |
| <b>Producing antitoxins</b><br>     | Some white blood cells produce antitoxins. These counteract (cancel out) the toxins released by pathogens.  |

### Section 7:

|                   |  |
|-------------------|--|
| Drugs from plants | Traditionally drugs were extracted from plants |
| Penicillin        | Discovered from penicillium mould              |

**Section 1: Monoclonal antibodies**

Monoclonal Antibodies

**Monoclonal antibodies** are identical copies of **one** type of **antibody** produced in a laboratory.

**How to produce monoclonal antibodies:**

1. A mouse is **injected** with a pathogen
2. White blood cells called **lymphocytes** produce **antibodies**
3. Lymphocytes are removed from the mouse and **fused** with rapidly dividing mouse **tumour cells**
4. The new cells are called **hybridomas**.
5. The hybridomas divide rapidly and release lots of **antibodies** which are then collected

**Uses of Monoclonal Antibodies**

Used in treatment of diseases and monoclonal antibodies have been developed against the antigens on cancer cells.

Monoclonal antibodies are bound to radioactive substances (or toxic drugs and chemicals) that stop cells growing and dividing.

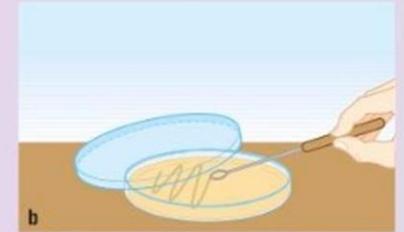
Monoclonal antibodies have side effects and are not as widely used in cancer treatment.

Monoclonal antibodies are used for diagnosis in pregnancy tests, in labs to measure levels of hormones and other chemicals in the blood to detect pathogens and to identify molecules in cells or tissues.

**Section 2: Culturing microorganisms in the laboratory**



**a**  
 Sterilise the inoculating loop used to transfer microorganisms to the agar by heating it until it is red hot in the flame of a Bunsen and then letting it cool. Do not put the loop down or blow on it as it cools.



**b**  
 Dip the sterilised loop in a suspension of the bacteria you want to grow and use it to make zigzag streaks across the surface of the agar. Replace the lid on the dish as quickly as possible to avoid contamination.



**c**  
 Fix the lid of the Petri dish with adhesive tape to prevent microorganisms from the air contaminating the culture – or microbes from the culture escaping. Do not seal all the way around the edge – as oxygen needs to get into the dish to prevent harmful anaerobic bacteria from growing.



**d**  
 The Petri dish should be labelled and stored upside down to stop condensation falling onto the agar surface.

**Section 3: Preventing Bacterial Growth**

Bacteria multiply by simple cell division if they have enough nutrients and a suitable temperature

You can investigate the effects of disinfectants and antibiotics on bacterial growth using agar plates and calculating the cross-sectional area of colonies grown or of clear areas of agar

**Section 4: More about Plant Diseases**

Plants can be infected by a range of viral, bacterial and fungal pathogens as well as insect pests.

We cant detect a plant is diseased by looking for unusual growths, spots or discoloured leaves and malformed leaves and stems.

- If a plant disease is suspected then it can be identified by:
- Gardening manuals
  - Gardening websites
  - Test kits containing monoclonal antibodies
  - Taking infected plants to a laboratory to identify the pathogen

Monoclonal antibodies are used for diagnosis in pregnancy tests, in labs to measure levels of hormones and other chemicals in the blood to detect pathogens and to identify molecules in cells or tissues.

**Section 6: Deficiency of Mineral Ions**

|                |   |
|----------------|---|
| Nitrate ions   | Needed by plants for protein synthesis and growth. Lack of nitrate ions results in stunted growth of plants.                          |
| Magnesium ions | Needed by plants to produce chlorophyll. Lack of magnesium ions results in chlorosis (yellowing of leaves due to lack of chlorophyll) |

**Section 7: Plant defence responses**

| Type of plant defence used (mechanical, physical or chemical) | What is the plant being defended against? | Describe the defence being used                         |
|---|---|---|
| <b>Mechanical</b>   | Herbivores eating it                      | Thorns or hairs   |
| <b>Chemical</b>   | Pathogens/bacteria<br>Herbivores/animals  | The chemical released is antibacterial or poisonous     |
| <b>Physical</b>   | Herbivores and pathogen entry             | Dead bark coating which falls off                       |
| <b>Physical</b>   | Insects such as aphids                    | Waxy cuticle/cellulose cell walls are hard to penetrate |



**The presence of pests**



**Stunted growth**



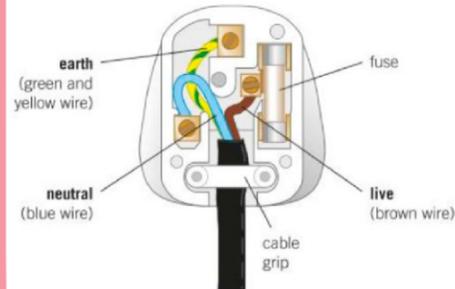
**Chlorosis**



**Thorns**

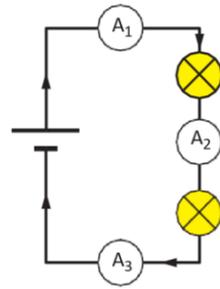
### Wiring a Plug

- Most appliances are attached to the electricity supply using a three pin plug.
- These are usually made from a hard wearing plastic as plastic is an **insulator**.
- There are three wires in the plug; the Earth, the live and the **neutral** wire.
- Plugs contain a fuse which breaks the circuit if the current flowing gets too high.
- We use brass for the pins as it is a good conductor and hard wearing.
- Copper is used for the wires as it is an excellent conductor.



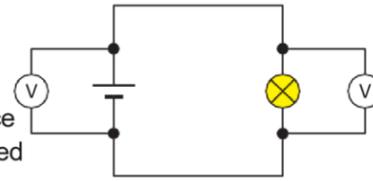
### Current

- Current** is the amount of **charge** flowing per second
- The charges that flow in a circuit are **electrons**, they are negatively charged
- Electrons** leave the negative end of the **cell** and travel around the circuit to the positive end of the cell
- Current has the unit of Amps (A) and is measured with an **ammeter** (which is placed in series or in the main circuit)



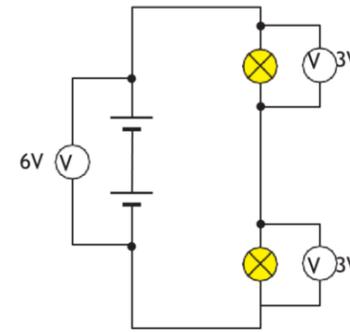
### Potential difference

- Potential difference** is the amount of energy transferred by the cell or **battery** to the charges
- The value of potential difference tells us about the force applied to each charge and then the energy transferred by each charge to the component which it passes through
- Potential difference has the unit of volts (V) and is measured with a **voltmeter** (which is placed in parallel to the circuit)



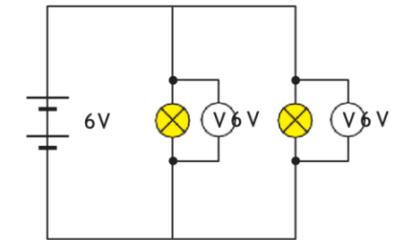
### Series circuits

- Series** circuits only have one loop
- If one component breaks, the whole circuit stops working
- Current is the same everywhere in a series circuit
- The total potential difference from the battery is shared between the components in a series circuit
- Adding more bulbs decreases the brightness of the bulbs



### Parallel circuits

- Parallel** circuits have more than one loop
- If one component breaks, the rest of the circuit will still work
- Current is shared between the different loops in the circuit
- The potential difference is the same everywhere in the circuit
- Adding more bulbs does not affect the brightness of the bulbs



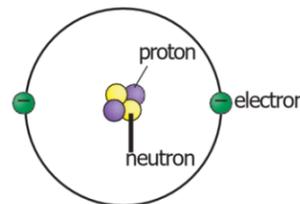
### Electrical signals in the body

- Nerve** cells are long and thin and carry electrical impulses around the body.
- Electricity from our surroundings can overpower these impulses and cause us harm.



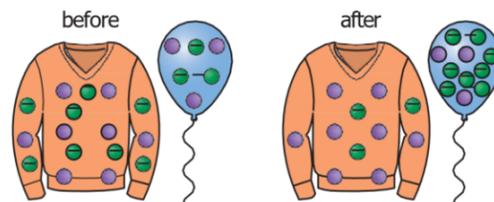
### The atom

- The **atom** consists of a central nucleus with electrons orbiting around the outside in shells
- Electrons** have a negative charge
- Protons** are inside the nucleus and have a positive charge
- Neutrons** are inside the nucleus and have a neutral charge



### Static electricity

- Static electricity is caused by the rubbing together of two **insulators**
- This causes electrons to be transferred, leaving one object with a positive charge, and one object with a negative charge

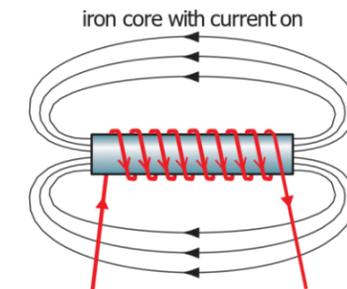


- Like charges will **repel**, opposite charges will **attract**



### Electromagnets

- Electromagnets** are made by wrapping a coil of wire around a magnetic **core**
- Electromagnets only work when electricity is flowing through the coil, which means that they can be turned on and off
- Electromagnets are also stronger than **permanent** magnets
- The electromagnet will produce the same magnetic field shape as a bar magnet



- You can increase the strength of an electromagnet by:
  - Increasing the number of turns on the coil around the core of the electromagnet
  - Increasing the current which is flowing through the coil of wire
  - Using a more magnetic material for the core, e.g. iron rather than aluminium

### Key terms

Make sure you can write definitions for these key terms.

Ammeter, atom, attract, battery, cell, conductors, current, electrons, electric charge, insulator, neutral, neutrons, potential difference, protons, repel, resistance, parallel, series, voltmeter

## Satin

**Fibres it can be made from:**  
Silk, Polyester

**Construction:** Woven

**Properties:** Smooth, Shiny (Lustre), expensive, easy to snag.

## Wool

**Fibres it can be made from:**  
Sheep, goat, Alpaca, Rabbit, Acrylic

**Construction:** Woven or knitted

**Properties:** Warm, absorbent, low flammability, crease resistant, can shrink.

## Year 8 DT Textiles

### Knowledge Organiser

#### From Fibre to Fabric



Fibres are the raw material used to make textile items. They can come from natural sources like plants and animals or they are synthetic and are made from oil and coal and chemicals.



They are spun or twisted together to make yarns.



Yarns are then joined together in different ways. They can be interlaced, interloped or bonded together to make fabrics. This example is a woven fabric where the yarns are interlaced

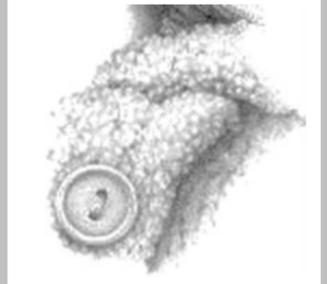
## How to Draw Fabric

Freehand sketching is a way for designers to communicate ideas quickly and easily.

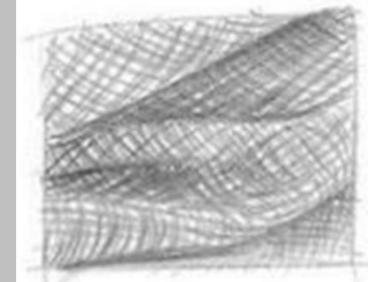
Always lightly sketch the outline first.

Then add shapes to represent folds and drape.

*Fleece*



*BURLAP*



*SILK*



Then add light, medium and dark tone to create depth, folds and texture.

## Cotton

**Fibres it can be made from:**  
Cotton Plant

**Construction:** Woven or knitted

**Properties:** Smooth, Comfortable to wear, Strong, hardwearing, absorbent, easy to wash, cheap, creases, can shrink.

## Lace

**Fibres it can be made from:**  
Cotton, silk, linen, polyester.

**Construction:** looped, braided or twisted.

**Properties:** Delicate, open web like patterns, different patterns can be created.

## Velvet

**Fibres it can be made from:**  
Silk, Viscose, Polyester.

**Construction:** Woven.

**Properties:** Short dense pile, soft, smooth, shiny (lustre), good drape.

## Faux Fur

**Fibres it can be made from:** Acrylic, Polyester

**Construction:** Knitted

**Properties:** Soft, resilient, durable, and warm, luxurious can range in appearance of different animal

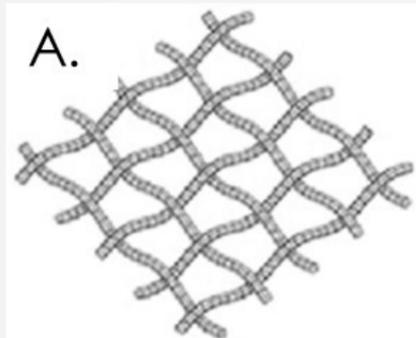
## Chiffon

**Fibres it can be made from:** Silk, Cotton, Polyester, Nylon.

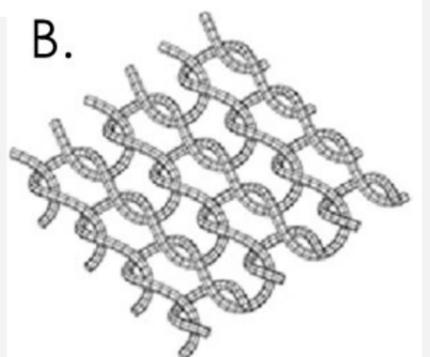
**Construction:** Woven

**Properties:** Shimmery, sheer, transparent, Lightweight, very fine mesh.

## Construction of Fabric

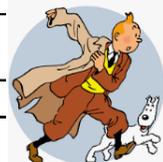


Woven



Knitted

# Y8 French: Toute une histoire



Scan the QR code to access this vocab on Quizlet.



## Les adjectifs

### +e in feminine

|           |             |
|-----------|-------------|
| méchant   | nasty       |
| menaçant  | threatening |
| élégant   | elegant     |
| laid      | ugly        |
| joli      | pretty      |
| effrayant | scary       |
| content   | happy       |
| cruel     | cruel       |
| mignon    | sweet/cute  |
| fier      | proud       |
| désespéré | desperate   |
| fatigué   | tired       |
| exténué   | exhausted   |
| excité    | excited     |
| rusé      | cunning     |
| cultivé   | cultured    |
| poilu     | hairy       |

### +se in feminine

|            |               |
|------------|---------------|
| généreux   | generous      |
| capricieux | temperamental |
| jaloux     | jealous       |
| somptueux  | gorgeous      |
| amoureux   | in love       |
| monstrueux | monstrous     |
| mystérieux | mysterious    |

### no change in feminine

|            |             |
|------------|-------------|
| drôle      | funny       |
| espiègle   | mischievous |
| rude       | unfeeling   |
| honnête    | honest      |
| magnifique | amazing     |
| égoïste    | selfish     |
| agréable   | nice        |
| sympa      | kind        |

### irregular

|               |                 |
|---------------|-----------------|
| vieux/vieille | old             |
| beau/belle    | handsome/pretty |

## Intensifiers

|                           |            |
|---------------------------|------------|
| un peu a bit              |            |
| très                      | very       |
| vraiment                  | really     |
| assez                     | quite      |
| trop                      | too        |
| complètement              | completely |
| souvent                   | often      |
| extrêmement               | extremely  |
| <b>SLANG EXPRESSIONS:</b> |            |
| carrément =               | very       |
| vachement =               | very       |

## Verbes à l'infinitif

|             |              |
|-------------|--------------|
| pousser     | to push      |
| travailler  | to work      |
| frotter     | to scrub     |
| nettoyer    | to clean     |
| préparer    | to prepare   |
| porter      | to wear      |
| visiter     | to visit     |
| crier       | to shout     |
| rencontrer  | to meet      |
| quitter     | to leave     |
| demander    | to ask       |
| tuer        | to kill      |
| trouver     | to find      |
| transformer | to transform |
| chercher    | to look for  |

## Opinions

|              |             |
|--------------|-------------|
| c'est =      | it is       |
| c'était =    | it was      |
| ce sera =    | it will be  |
| cool=        | cool        |
| super=       | super       |
| génial =     | great       |
| intéressant= | interesting |
| déprimant=   | depressing  |
| ennuyeux=    | boring      |
| affreux=     | awful       |

## Connectives

|            |            |
|------------|------------|
| d'abord    | first      |
| ensuite    | afterwards |
| après      | after      |
| puis       | then       |
| alors que  | whereas    |
| finalement | finally    |
| mais       | but        |
| par contre | however    |

## Complex connectives

|     |       |
|-----|-------|
| qui | who   |
| où  | where |

## La routine. Reflexive verbs

|                      |                     |
|----------------------|---------------------|
| se réveiller         | to wake up          |
| se lever             | to get up           |
| se laver             | to have a wash      |
| s'habiller           | to get dressed      |
| se doucher           | to have a shower    |
| se brosser les dents | to wash one's teeth |
| se relaxer           | to relax            |
| se maquiller         | to put make-up on   |
| se coiffer           | to style hair       |
| se moquer de         | to make fun of      |
| se coucher           | to go to bed        |
| se promener          | to walk             |



## Les verbes

|                       |               |
|-----------------------|---------------|
| Il (n') est (pas)     | He is(n't)    |
| Elle (n') est (pas)   | She is(n't)   |
| Ils (ne) sont (pas)   | They are(n't) |
| Elles (ne) sont (pas) | They are(n't) |
| Ce (n') est (pas)     | It is(n't)    |

## La lecture

|                              |                               |
|------------------------------|-------------------------------|
| J'aime lire                  | I like reading                |
| je lis souvent               | I read often                  |
| récemment j'ai lu            | recently I have read          |
| les romans                   | novels                        |
| les BD (Bandes dessinées)    | comics                        |
| les magazines de foot        | football magazines            |
| Les magazines féminins       | girls magazines               |
| Les livres d'horreur         | horror books                  |
| Mon auteur préféré s'appelle | my favourite author is called |

## Reading

## Time phrases

|                     |                      |
|---------------------|----------------------|
| Le week-end dernier | last weekend         |
| L'année dernière    | last year            |
| Hier (matin)        | yesterday (morning)  |
| Un jour             | one day              |
| Demain (après-midi) | tomorrow (afternoon) |
| A l'avenir          | in the future        |
| Ce soir             | tonight              |
| Le weekend prochain | next weekend         |
| L'année prochaine   | next year            |
| La prochaine fois   | next time            |

## Quand?

|                        |                  |
|------------------------|------------------|
| tous les jours         | everyday         |
| à huit heures          | at 8 o'clock     |
| de 8 heures à 9 heures | = from 8 to 9    |
| le week-end            | at the weekend   |
| le samedi              | on saturday      |
| le matin               | in the morning   |
| l'après-midi           | in the afternoon |
| le soir                | in the evening   |

## Qui?

|                  |                |
|------------------|----------------|
| la/une princesse | the/a princess |
| le/un chevalier  | the/a knight   |
| le/un roi        | the/a knig     |
| la/une reine     | the/a queen    |
| le/un dragon     | the/a dragon   |
| le/un prince     | the/a prince   |
| la/une sorcière  | the/a witch    |

## Comment?

|             |         |
|-------------|---------|
| facilement  | easily  |
| lentement   | slowly  |
| rapidement  | quickly |
| joyeusement | happily |
| tristement  | sadly   |

## Où?

|                        |                    |
|------------------------|--------------------|
| dans le village        | in the village     |
| dans le château        | in the castle      |
| dans la forêt          | in the forest      |
| dans le parc           | in the park        |
| dans sa chambre        | in his/her bedroom |
| dans la cuisine        | in the kitchen     |
| dans le salon          | in the living room |
| dans la salle de bains | in the bathroom    |

## When?

|                  |                  |
|------------------|------------------|
| everyday         | at 8 o'clock     |
| at 8 o'clock     | = from 8 to 9    |
| at the weekend   | on saturday      |
| on saturday      | in the morning   |
| in the morning   | in the afternoon |
| in the afternoon | in the evening   |

## Who?

|                |              |
|----------------|--------------|
| the/a princess | the/a knight |
| the/a knight   | the/a knig   |
| the/a queen    | the/a dragon |
| the/a dragon   | the/a prince |
| the/a prince   | the/a witch  |

## How?

|         |         |
|---------|---------|
| easily  | slowly  |
| slowly  | quickly |
| quickly | happily |
| happily | sadly   |

## Where?

|                    |                    |
|--------------------|--------------------|
| in the village     | in the castle      |
| in the castle      | in the forest      |
| in the forest      | in the park        |
| in the park        | in his/her bedroom |
| in his/her bedroom | in the kitchen     |
| in the kitchen     | in the living room |
| in the living room | in the bathroom    |



# Year 8 - Nutrients

Food safety and hygiene is about protecting people and reducing the risk of food poisoning.



<https://www.youtube.com/watch?v=zE0ypKtFuWQ>

The Eatwell Guide shows the types and proportions of foods people need for a healthy and well-balanced diet.



<https://www.youtube.com/watch?v=7MIE4G8ntss>

<https://www.nhs.uk/live-well/eat-well/the-eatwell-guide/>

<https://www.youtube.com/watch?v=8aWqZd9RScQ>

Carbohydrates are *macronutrients*.

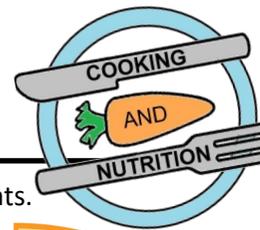
The main function is to **provide energy** to the body.

2 main types = **starchy** (complex) and **sugary** (simple)

**Complex** = long lasting energy;  
**Simple** = short burst of energy

<https://www.youtube.com/watch?v=PByM12M1n3A>

<https://www.youtube.com/watch?v=Xto8ZqCYDvY>



Proteins are *macronutrients*.

They're used by the body for **growth, repair** and maintenance of **muscle and tissue**.

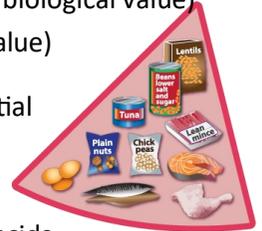
2 main types = **HBV** (high biological value) and **LBV** (low biological value)

**HBV** = contain all 9 essential amino acids;

**LBV** = contain some but not all 9 essential amino acids

<https://www.youtube.com/watch?v=61Lelea02ao>

<https://www.youtube.com/watch?v=KSKPgaSGSYA>

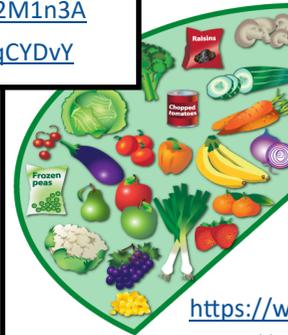


## Key vocabulary

- safety / hygiene
- nutrients / sources / function
- carbohydrates / protein / amino acids
- HBV / LBV / protein complementation
- fibre / vitamins / minerals / fat / water
- deficiency / excess
- convection / conduction / radiation

## vitamins

and minerals are *micronutrients*. They have a wide range of health benefits.



<https://www.youtube.com/watch?v=K5pW7rpMTQw>

<https://www.youtube.com/watch?v=kteZneJm1EI>

<https://www.youtube.com/watch?v=1u5HOURq7kQ>



<https://www.youtube.com/watch?v=fiFi-d0RwKo>

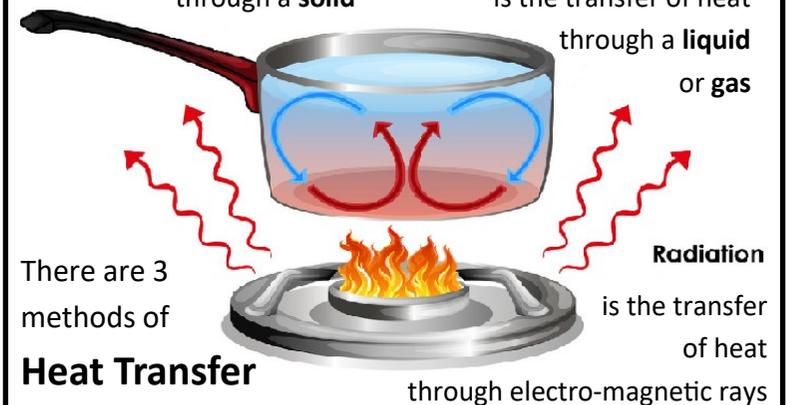
**Conduction** is the transfer of heat through a **solid**

**Convection** is the transfer of heat through a **liquid** or **gas**

There are 3 methods of

## Heat Transfer

<https://www.youtube.com/watch?v=vg5k6t6uZwE>



**Radiation** is the transfer of heat through electro-magnetic rays

# Year 8 Summer Term Slavery and Protest

## Lesson Content

## The Slave Trade

## Everyday Life

## Punishment

## How did slaves fight back?

## The abolition of Slavery

## The growth of Empire

## The American Revolution

## Political protest in Britain

## Political change in Britain

## Life in Britain - Dirty Towns

## Life in Britain - Class System

**Key resources:**  
[www.techistoryks3.blogspot.com](http://www.techistoryks3.blogspot.com)

### Key dates

|                                  |  |
|----------------------------------|--|
| 18 <sup>th</sup> Century onwards | Sugar plantations expand rapidly in the Caribbean              |
| 1780-81                          | "The Brookes", a famous slave ship is constructed in Liverpool |
| 1807                             | Transportation of slaves on British ships is banned            |
| 1819                             | The Peterloo massacre  |
| 1834                             | The Tolpuddle Martyrs are transported to Australia             |
| 1838                             | Slavery is banned in the British Empire                        |
| 1832                             | The Reform Act   |
| 1848                             | Second great Chartist petition                                 |
| 1867                             | Male workers in towns get the vote                             |
| 1884                             | Male workers in the countryside get votes                      |
| 1889                             | Charles Booth's report into living conditions published        |
| 1901                             | Queen Victoria dies  |

### Key people

|                             |   |
|-----------------------------|---|
| <b>Sir John Hawkins</b>     | Sir John Hawkins was a pioneering English naval commander and administrator, slave trader, spy, merchant, navigator, shipbuilder, and privateer.  |
| <b>Edward Colston</b>       | Bristol-born <b>merchant</b> who made the bulk of his fortune from the <b>slave trade</b> , particularly between 1680 and 1692.   |
| <b>Olaudah Equiano</b>      | Enslaved as a child, he was taken to the Caribbean and sold as a slave to a Royal Navy officer. He was sold twice more but purchased his freedom in 1766  |
| <b>Mary Prince</b>          | The First Woman to Present a Petition to Parliament. <b>Mary Prince</b> was born in 1788, to an enslaved family in Bermuda. She was sold to a number of brutal owners and suffered from terrible treatment  |
| <b>Toussaint L'Overture</b> | Led a successful slave revolt and emancipated the slaves in the French colony of Saint-Domingue (Haiti). A formidable military leader, he turned the colony into a country governed by former black slaves  |
| <b>Queen Victoria</b>       | <b>Queen</b> of the United Kingdom of Great Britain and Ireland from 20 June 1837 until her death in 1901.  |
| <b>George Washington</b>    | <b>George Washington</b> was an American political leader, military general, statesman, and Founding Father who served as the first president of the United States  |
| <b>William Lovett</b>       | British activist and leader of the Chartist political movement. He was one of the leading London-based artisan radicals of his generation.  |
| <b>John Snow</b>            | English physician and a leader in the development of anaesthesia and medical hygiene.   |
| <b>Joseph Bazalgette</b>    | 19th-century English civil engineer. His major achievement was the creation (in response to the Great Stink of 1858) of a <b>sewer network for central London</b> which was instrumental in relieving the city from cholera epidemics, while beginning to clean the River Thames. |

### Key Words - Glossary

|                         |   |                          |   |
|-------------------------|---|--------------------------|---|
| <b>Benin</b>            | a republic in W Africa, on the Bight of <b>Benin</b> , a section of the Gulf of Guinea: in the early 19th century a powerful kingdom,   | <b>Chartists</b>         | <b>Chartism</b> was a working class movement, which emerged in 1836 and was most active between 1838 and 1848. The aim of the <b>Chartists</b> was to gain political rights and influence for the working classes.  |
| <b>Triangular trade</b> | the trade in the 18th and 19th centuries that involved shipping goods from Britain to West Africa to be exchanged for slaves, these slaves being shipped to the West Indies and exchanged for sugar, rum, and other commodities which were in turn shipped back to Britain. | <b>Tolpuddle Martyrs</b> | The Tolpuddle Martyrs were six agricultural labourers from the village of Tolpuddle in Dorset, England, who, in 1834, were convicted of swearing a secret oath as members of the Friendly Society of Agricultural Labourers.  |
| <b>middle passage</b>   | the sea journey undertaken by slave ships from West Africa to the West Indies   | <b>Ballot</b>            | a system of voting secretly and in writing on a particular issue.   |
| <b>overseer</b>         | a person who supervises others, especially workers.   | <b>Democracy</b>         | a system of government by the whole population or all the eligible members of a state, typically through elected representatives.   |
| <b>castration</b>       | the removal of the testicles of a male animal or man  | <b>Rotten borough</b>    | A <b>rotten borough</b> was a parliamentary borough or constituency in England, Great Britain, or the United Kingdom before the Reform Act 1832, which had a very small electorate and could be used by a patron to gain unrepresentative influence within the unreformed House of Commons. |
| <b>abolitionist</b>     | a person who favours the abolition of a practice or institution, especially capital punishment or (formerly) slavery.   | <b>hygiene</b>           | conditions or practices conducive to maintaining health and preventing disease, especially through cleanliness.   |
| <b>independence</b>     | the fact or state of being independent.   | <b>Social class</b>      | a set of hierarchical <b>social</b> categories, the most common being the upper, middle and lower <b>classes</b> .  |
| <b>13 colonies</b>      | a group of colonies of Great Britain on the Atlantic coast of North America founded in the 17th and 18th centuries which declared independence in 1776 and formed the United States of America.   | <b>slums</b>             | a highly populated urban residential area consisting mostly of closely packed, decrepit housing units in a situation of deteriorated or incomplete infrastructure, inhabited primarily by impoverished persons.   |

**Key Assessment:** 50 minute assessment based on skills from Paper 3 GCSE History  
Questions 6 – 8 or 9

# Year 8 Term 1 Spanish Knowledge Organiser

## Module 1 – Mis vacaciones (My holidays)

|                        |                                 |
|------------------------|---------------------------------|
| <b>De vacaciones</b>   | <b>On holiday</b>               |
| ¿Adónde fuiste?        | <i>Where did you go?</i>        |
| el año pasado          | <i>last year</i>                |
| el verano pasado       | <i>last summer</i>              |
| Fui a...               | <i>I went to...</i>             |
| Escocia                | <i>Scotland</i>                 |
| España                 | <i>Spain</i>                    |
| Francia                | <i>France</i>                   |
| Gales                  | <i>Wales</i>                    |
| Grecia                 | <i>Greece</i>                   |
| Inglaterra             | <i>England</i>                  |
| Irlanda                | <i>Ireland</i>                  |
| Italia                 | <i>Italy</i>                    |
| ¿Con quién fuiste?     | <i>Who did you go with?</i>     |
| Fui con...             | <i>I went with...</i>           |
| mis amigos, mis amigas | <i>my friends</i>               |
| mi clase               | <i>my class</i>                 |
| mi familia             | <i>my family</i>                |
| mis padres             | <i>my parents</i>               |
| ¿Cómo fuiste?          | <i>How did you get there?</i>   |
| Fui en, Fuimos en...   | <i>I went by, We went by...</i> |
| autocar                | <i>coach</i>                    |
| avión                  | <i>plane</i>                    |
| barco                  | <i>boat, ferry</i>              |
| coche                  | <i>car</i>                      |
| tren                   | <i>train</i>                    |



|                                |                             |
|--------------------------------|-----------------------------|
| <b>Palabras muy frecuentes</b> | <b>High-frequency words</b> |
| a, al, a la                    | <i>to the</i>               |
| en                             | <i>by</i>                   |
| mi, mis                        | <i>my</i>                   |
| ¡Qué...!                       | <i>How...!</i>              |
| además                         | <i>also, in addition</i>    |

|                 |                         |
|-----------------|-------------------------|
| <b>¿Cuándo?</b> | <b>When?</b>            |
| luego           | <i>then</i>             |
| más tarde       | <i>later</i>            |
| después         | <i>afterwards</i>       |
| el primer día   | <i>on the first day</i> |
| el último día   | <i>on the last day</i>  |
| por la mañana   | <i>In the morning</i>   |
| por la tarde    | <i>in the afternoon</i> |

|                      |                      |
|----------------------|----------------------|
| <b>Exclamaciones</b> | <b>Exclamations</b>  |
| ¡Qué bien!           | <i>How great!</i>    |
| ¡Qué bonito!         | <i>How nice!</i>     |
| ¡Qué divertido!      | <i>How funny!</i>    |
| ¡Qué guay!           | <i>How cool!</i>     |
| ¡Qué rico!           | <i>How tasty!</i>    |
| ¡Qué suerte!         | <i>How lucky!</i>    |
| ¡Qué aburrido!       | <i>How boring!</i>   |
| ¡Qué horror!         | <i>How dreadful!</i> |
| ¡Qué lástima!        | <i>What a shame!</i> |
| ¡Que mal!            | <i>How bad!</i>      |
| ¡Qué rollo!          | <i>How annoying!</i> |

|                      |                             |
|----------------------|-----------------------------|
| <b>¿Cómo te fue?</b> | <b>How was it?</b>          |
| Fue divertido.       | <i>It was fun or funny.</i> |
| Fue estupendo.       | <i>It was brilliant.</i>    |
| Fue fenomenal.       | <i>It was fantastic.</i>    |
| Fue flipante.        | <i>It was awesome.</i>      |
| Fue genial.          | <i>It was great.</i>        |
| Fue guay.            | <i>It was cool.</i>         |
| Fue regular.         | <i>It was OK.</i>           |
| Fue un desastre.     | <i>It was a disaster.</i>   |
| Fue horrible.        | <i>It was horrible.</i>     |



|                             |   |
|-----------------------------|---|
| <b>¿Qué hiciste?</b>        | <b>What did you do?</b>                 |
| Bailé.                      | <i>I danced.</i>                        |
| Compré una camiseta.        | <i>I bought a T-shirt.</i>              |
| Descansé en la playa.       | <i>I relaxed on the beach.</i>          |
| Mandé SMS.                  | <i>I sent texts.</i>                    |
| Monté en bicicleta.         | <i>I rode my bike.</i>                  |
| Nadé en el mar.             | <i>I swam in the sea.</i>               |
| Saqué fotos.                | <i>I took photos.</i>                   |
| Tomé el sol.                | <i>I sunbathed.</i>                     |
| Visité monumentos.          | <i>I visited monuments.</i>             |
| No nadé en el mar.          | <i>I didn't swim in the sea.</i>        |
| ¿Qué hiciste el último día? | <i>What did you do on the last day?</i> |
| Bebí una limonada.          | <i>I drank a lemonade.</i>              |
| Comí paella.                | <i>I ate paella.</i>                    |
| Conocí a un chico guapo.    | <i>I met a cute boy.</i>                |
| Conocí a una chica guapa.   | <i>I met a cute girl.</i>               |
| Escribí SMS.                | <i>I wrote texts.</i>                   |
| Salí con mi hermano.        | <i>I went out with my brother.</i>      |
| Salí con mi hermana.        | <i>I went out with my sister.</i>       |
| Vi un castillo interesante. | <i>I saw an interesting castle.</i>     |



To revise this topic



## Near future tense

The near future is used to talk about what you are going to do. Use the present tense of the verb it followed by a plus the infinitive.

|                            |                                      |
|----------------------------|--------------------------------------|
| voy a salir con mis amigos | I am going to go out with my friends |
| vas a comer paella         | you are going to eat paella          |
| va a ir a una fiesta       | he/she is going to go to a party     |
| vamos a jugar al fútbol    | we are going to play football        |
| vais a chatear             | you are going to chat online         |
| van a hacer los deberes    | they are going to do their homework  |

## Past tense

The preterite tense is used to talk about **completed** actions that have happened in the **past**.

Ayer hablé con mis abuelos Yesterday I spoke with my grandparents

El año pasado visité Barcelona Last year I visited Barcelona

### How to form the Preterite Tense

We form the preterite in the same way do the present tense. It just requires a different set of endings.

- first start with the infinitive form of the verb (the form used in the dictionary. E.g. hablar = to speak).
- look at the last two letters of the infinitive and decide whether it's an -ar, -er or -ir verb.
- then remove the -ar, -er or -ir to find the stem.
- then add the following endings:

|              | Hablar     | Comer     | Vivir     |
|--------------|------------|-----------|-----------|
| I            | Hablé      | Comí      | Viví      |
| You Singular | Hablaste   | Comiste   | Viviste   |
| He/She/It    | Habló      | Comió     | Vivió     |
| We           | Hablamos   | Comimos   | Vivimos   |
| You Plural   | Hablasteis | Comisteis | Vivisteis |
| They         | Hablaron   | Comieron  | Vivieron  |

\* Notice that the Er and Ir endings are the same

## The conditional

**Me/Te gustaría** is the conditional form of **me/te gusta**. You use it to say what you would like to do. It is often followed by the infinitive.

¿Te gustaría ir a la cafetería? Would you like to go to the café?  
Me gustaría ir al cine. I would like to go to the cinema.

## Reflexive verbs

Reflexive verbs include a reflexive pronoun. They often describe an action you do to yourself – for example, lavarse (to wash oneself/ to get washed).

|                    |                           |
|--------------------|---------------------------|
| <b>me</b> lavo     | I wash myself/get washed  |
| <b>te</b> lavas    | you (sg) wash yourself    |
| <b>se</b> lava     | he/she washes him/herself |
| <b>nos</b> lavamos | we wash ourselves         |
| <b>os</b> laváis   | you (pl) wash yourselves  |
| <b>se</b> lavan    | they wash themselves      |

## Adjective endings

Colour words are adjectives and generally follow the normal adjective patterns.

| ending in... | singular  |          | plural    |          |
|--------------|-----------|----------|-----------|----------|
|              | masculine | feminine | masculine | feminine |
| -o           | rojo      | roja     | rojos     | rojas    |
| -e           | verde     | verde    | verdes    | verdes   |
| -a           | rosa      | rosa     | rosas     | rosas    |
| consonant    | marrón    | marrón   | marrones  | marrones |

## Using 3 tenses

Look carefully at verb forms to see which tense someone is using:

| present | preterite | near future  |
|---------|-----------|--------------|
| bailo   | bailé     | voy a bailar |
| como    | comí      | voy a comer  |
| veo     | vi        | voy a ver    |
| salgo   | salí      | voy a salir  |
| voy     | fui       | voy a ir     |
| es      | fue       | va a ser     |

Look at time-markers for clues:

|              |                         |                            |
|--------------|-------------------------|----------------------------|
| normalmente  | el fin de semana pasado | el fin de semana que viene |
| generalmente | el año pasado           | el año que viene           |
| los viernes  | el viernes pasado       | el próximo viernes         |

## Using 3 tenses

Different types of verbs work like this in the 'I' form in the present, preterite and near future. Train yourself to spot verbs in different tenses:

|                     | infinitive                | present                                | preterite                               | near future  |
|---------------------|---------------------------|--|---|--|
| regular verbs       | llevar<br>comer<br>vivir  | llevo<br>como<br>vivo                  | llevé<br>comí<br>viví                   | voy a llevar<br>voy a comer<br>voy a vivir                                       |
| stem-changing verbs | jugar                     | juego                                  | jugué                                   | voy a jugar  |
| irregular verbs     | hacer<br>ir<br>ver<br>ser | hago<br>voy<br>veo<br>soy (es → it is) | hice<br>fui<br>vi<br>fui (fue → it was) | voy a hacer<br>voy a ir<br>voy a ver<br>voy a ser (va a ser → it is going to be) |

# Year 8 CRE – Diversity and Discrimination

## Key Words

Equality  
Rights  
Difference  
Characteristic  
Law  
Behaviour  
Responsibility  
Treatment  
Islamophobia  
Discrimination

## Religious discrimination in the UK

Religion and belief discrimination is illegal in the UK and is listed as a protected characteristic in the Equality Act 2010.

Protection is given to those with any religion, or any religious or philosophical beliefs as well as those without a religion or belief.

Religious hate crime has risen in England and Wales by 40% in recent years. More than half of the incidents recorded are directed towards Muslims.

## Key Facts

- 94,098 hate crimes were recorded in 2018.
- Police believe the spike in religious hate crime is due to terror attacks at the time.
- Religiously motivated hate crime is often not reported to the police.

## Key Questions

Should we respect everyone?

Why are people different?

What is in place to make sure people are treated equally?

Why are people treated differently?

What does it mean to be a good person?

Do we all have a part to play in making sure everyone has equal rights?

## Year 8 RM Knowledge Organiser – Game Controller Project

**Ergonomics** is the study of how humans interact with their environment and the objects within those environments.

A successful design must fit the body, be comfortable, safe and easy to use. Ergonomic features could include any of the following:

**Shape** – the product may simply have rounded corners to aid safety or it could have a complicated shape design to fit a particular of the body.

**Texture** – the product may have ribbed or rubberized grip to prevent it slipping from your hand.

**Colour** – the product may have significant purpose. Under the bonnet of a car all the components that are required to be checked by the driver are normally clearly colour coded for identification and safety purposes.

**Weight and size** – if a product needs to be lifted or moved it will have to be manufactured to withing a certain weight and size.

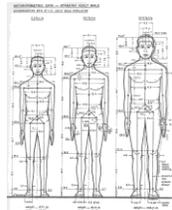
**Adjustment** – a product that will be used by different people could offer adjustable features such as adjustable strap. This will also improve comfort.

Here is a list of some of the ergonomics features found on this drill:

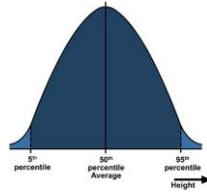
- Moulded handle to fit the hand
- Rubberised grip
- Second handle to aid stability
- Balanced weight
- Easy-read dial
- Convenient trigger location
- Quick-battery change



**Anthropometrics** is derived from the words Anthropology (the study of humans) and Metrics (Latin for measurement). Simply put it is the study of human data. This covers everything from height and weight to the field of vision and provides designers with just about every measurement they would every need.



Anthropometric data present in either charts or tables.



5% of the population are smaller than 'average' person and 5% are bigger than the 'average' person. About 90% of the population are considered average.

“incremental improvements over time” some product change over time due to market pressures or the development of new technology.



## Technology push



This is when a new technology has been developed which the manufacturers or inventors believe will benefit the consumer or be of interest to them. Often, the consumer will have no idea the technology exists, how it works or how it could be of benefit to them

## Market Pull



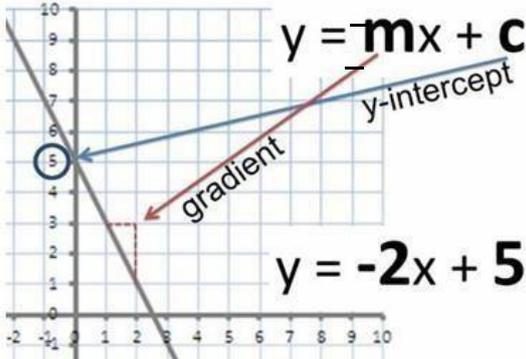
Sometimes manufacturers develop products that the consumer needs for or where there is a growing trend or demand for a particular product. Examples would include tablet computers, camera phones, face masks etc. When manufacturers see a demand from the consumer (or market), this is known as market pull.

**Biomimicry** is where nature inspires a designer / scientist / engineer, to design a product. Sometimes a designer / scientist will look at the way nature has solved a problem through evolution and then he / she will apply it to a design problem.



During the 1970s, **Alberto Alessi** began employing product designers to make original and fun designs for everyday kitchen equipment. The bright colours and stylish designs were mass produced and affordable to everyone.

**Y8 Summer Maths Knowledge Organiser**

| Topic  | Key fact  | Hegarty maths clip number |
|--|---|---------------------------|
| Expanding single brackets                      |  $2(y - 3) = 2 \times y - 2 \times 3 = 2y - 6 \checkmark$   | 160 - 161                 |
| Plotting linear graphs using a table of values | <ul style="list-style-type: none"> <li>✦ Need minimum 3 pairs of coordinates.</li> <li>✦ Start at <math>x = 0</math>.</li> <li>✦ Do the positive <math>x</math> co-ordinates first. ✦ <math>X</math> coordinate: along the corridor ✦ <math>Y</math> co-ordinate: up the stairs.</li> <li>✦ <math>Y = mx + c</math> will be a straight line.</li> </ul>   | 206                       |
| Identifying gradient and y- intercept          | <p>The number in front of <math>x</math> is called the gradient and tells us how many up (+) or down (-) the graph goes for every 1 across (right).</p>    | 207                       |
| Calculating with Decimals                      | <p>Addition and subtraction: line up the decimal point.<br/>         Multiplication: Change to whole numbers and remember to put the point in at the end.<br/>         Division: If dividing by a decimal times both numbers by 10, 100 or 1000. Do not put decimal back in.</p>  | 47 - 51                   |
| Four Operations with Fractions                 | <p>To add and subtract fractions you need to write all fractions in a sum with the same denominator by writing equivalent fractions.<br/>         Multiplying: Cancel down whenever possible, then multiply the numerators together and multiply the denominators together.<br/>         Dividing fractions: KFC<br/>         (Keep the first, Flip the second and Change the sign to <math>x</math>)</p> | 65 -78                    |
| Sharing in a given ratio                       | Always find 1 part  | 332 to 334                |
| Ratio problems                                 | Set out in columns and put information below the appropriate column   | 335 to 338                |

|                                   |  |                                       |
|-----------------------------------|--|---------------------------------------|
| <b>Multi-step Angle Reasoning</b> | <p>Angles on a straight line add up to <math>180^\circ</math>. Angles in a triangle add up to <math>180^\circ</math>.</p> <p>Angles in a quadrilateral add up to <math>360^\circ</math>.</p> <p>Vertically opposite angles are equal.</p> <p>Angles around a point add up to <math>360^\circ</math>.</p>   | 477 - 480,<br>484 - 491,<br>812 - 815 |
| <b>Pie Charts</b>                 | <ul style="list-style-type: none"> <li>Find the angle for each category:</li> <li><math>360^\circ \div \text{total frequency} =</math> the number of degrees per piece of data</li> <li>To work out each category's associated angle we multiply the number of degrees per piece of data by each frequency.</li> </ul>  <p>Top Tip: Always draw each angle clockwise, using the previous line drawn to start.</p> | 427 - 429                             |
| <b>Proportion</b>                 | <p>Direct proportion: as one quantity increases so does the other</p> <p>Inverse proportion: as one quantity increases the other decreases</p>   | 339 to 342                            |

**Key Vocabulary**

- Numerator - the top number in a fraction.
  - Denominator - the bottom number in a fraction.
  - Mixed number - a number consisting of an integer and a proper fraction.
  - Improper fraction - an improper fraction is a fraction where the top number (numerator) is greater than or equal to the bottom number (denominator): it is top-heavy.
  - Direct proportion - one quantity increases at the same rate as the other quantity increases.
  - Inverse proportion - one quantity increases at the same rate as the other quantity decreases.
  - Rate - a price or charge set according to a scale or standard hotel rates.
  - Quantity – the amount of something.
  - Expand – to multiply the term before bracket by the terms in the bracket.
  - Expression – collection of terms. E.g  $4x + 8p$ .
- ○
- Gradient – the steepness of a curve
- Linear Graph – straight line graph  $y = mx + c$
  - Y-intercept – where the graph crosses the y axis

|  |  |                           |
|--|--|---------------------------|
| <b>Mean, Median, Mode and Range (recap averages)</b> | <p>Mean: Add up all the numbers and then divide by the number of items.</p> <p>Median: Put in order and then find the middle. If two middle values then add the two middle numbers and divide by 2.</p> <p>Mode: The number that appears the most. There can be more than one mode.</p> <p>Range: The difference between the largest and smallest numbers.</p> | 404 -410 And<br>419 – 421 |
|--|--|---------------------------|

# Romantics

| Context  | Key Poets  |
|--|--|
| World changing events in the late 18th century from the French Revolution to the Industrial Revolution to the Scientific Revolution of the Victorian era inspired a new movement in art, literature and thinking: The Romantics.   | <p><b>Wordsworth:</b><br/>William Wordsworth was not without his share of loss. In fact, he lost his mother when he was seven, and his father when he was thirteen. As if that were not enough loss for one person, three of his children preceded him in death. This background gives his poems greater meaning. Wordsworth explores the ideas that people find comfort in and are connected to nature, feeling more at home in the great outdoors than in his house. He reveals a sense of longing for what comes after life, and suggests a sense of disappointment in earthly life, hoping for better things to come.</p>  |
| The late 18 <sup>th</sup> Century was a time of violent rebellion in parts of Europe and the New World. Conscious of the violent events across the English Channel, the British government feared similar outbreaks. The early Romantic poets tended to be supporters of the French Revolution, hoping that it would bring about political change in England. However, the bloody events in France shocked them deeply and affected their views. Poets like Wordsworth gradually became disappointed with the Revolutionaries due to the violence they were causing. |  |
| Romantic poets - such as Wordsworth - believed that poetry should be accessible; that it should be composed in 'the language really spoken by men' and should be relevant to ordinary people. For this reason, he tried to give a voice to those who tended to be marginalised and oppressed by society: the rural poor; discharged soldiers; the insane; and, often, children.  | <p><b>Blake:</b><br/>William Blake wrote poems of social protest. He believed that the working class were innocent victims of the cruellest exploitation. He explored ideas of industrialisation, with vivid descriptions of the smoke of the factories and the grey environments of London, reflecting the dull and hopeless lives of the poor. Blake focusses on two major Romantic preoccupations: childhood; and the impact of the Industrial Revolution on the natural world. Blake frequently addressed social issues in his poems and express his concerns about the way society was organised and ruled. His poem 'London' draws attention to the suffering of chimney-sweeps, soldiers and the poor while criticising the established church.</p> |
| To create a better world, the Romantics said that it was necessary to start all over again with a childlike perspective. They believed that children were special because they were innocent and uncorrupted. Romantic verse was also filled with reverence for the natural world.   |  |
| The Romantics highlighted the healing power of the <b>imagination</b> , because they truly believed that it could enable people to transcend (rise above) their troubles and their circumstances. They felt their creative talents could illuminate the world and regenerate mankind spiritually.  | <p><b>Keats:</b><br/>Keats is most famous for his collections of odes, in which he explores extreme emotion through his hyperbolic descriptions of natural imagery and sensual language. Keats died of tuberculosis at 25.</p>   |
| As technology and science was developing at such a speed, the Romantics wanted to revert back to a time of simplicity and natural order, taking preference in spending time in the rural, rather than urban spaces; enjoying the simplicity and predictability of nature and the seasons; taking time to be at one with their own thoughts amongst a world that was becoming more fast-paced by the day.   | <p><b>Shelley:</b><br/>A well known Romantic (along with his wife, Mary Shelley, who wrote Frankenstein), was radical in his poetry and his political and social beliefs. His life was troubled with illness, family crises and tumult due to his atheism and defiance of social conventions. He died in a boating accident at the age of 29.</p>  |

## Vocabulary

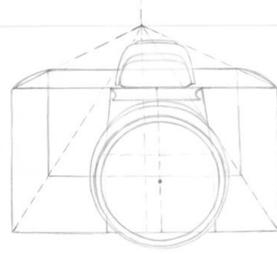
|   |  |  |
|---|--|--|
| Liberty: the state of being free from oppression in society             | Ode: a poem that expresses strong feelings for something/someone | Radical (n): a person who advocates complete change  |
| Oppress: to treat cruelly/unfairly                                      | Ballad: a poem that tells a story                                | Iambic pentameter: 5 stressed and 5 unstressed syllables in a line of poetry, creating a de-dum rhythm (5 times). These 10 syllables are likened to a heartbeat. |
| Dogma: principles/ideas set by those in authority                       | Sonnet: a 14 line poem, often exploring the theme of love        |  |
| Marginalise: to put or keep someone in a powerless/unimportant position | Rural: relating to characteristics of the countryside            | Equality: the state of being equal   |
| Tempestuous: full of strong emotions/affected by a storm                | Urban: relating to characteristics of a town or city             | Magnum Opus: the masterpiece, or greatest piece of work from a writer.   |
| Adherence: Attachment/commitment to rules                               | Endure: suffer for an extended period of time, with patience.    |  |
| Conscience: sense of right and wrong                                    | Fortitude: courage in the face of pain or adversity              | Democratic: relating to the idea all people should be treated equally  |
| Incontrovertible: not able to be denied/disputed                        | Judicious: having or showing good judgement or sense             | Critic: a person who expresses disapproval of something  |

# Playscripts

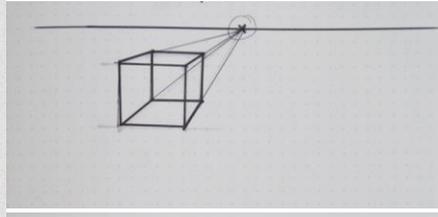
| Context   | Key Playwrights   |
|---|---|
| <p>The evolution of scripts can be dated back to Aristotle, a famous Greek philosopher, who believed that watching a play at the theatre would provide purification and cleansing to the spectator. This early form of theatre was seen as ritualistic, and the process of dressing up to entertain perform was not as we know it to be today.</p>  | <p><b>Arthur Miller:</b><br/>An American playwright, born in New York with Polish and Jewish descent. He is famously known for his plays: All My Sons, Death of a Salesman, The Crucible and A View from the Bridge. He worked throughout his younger years and into his teenage life to support his family and pay for his own university fees, later winning many awards during his lifetime. At one point, he married icon Marilyn Monroe, divorcing after 5 years. His plays often had political messages and he was criticised by the government, even spending a short time in prison as a result of his ideas.</p> |
| <p>The ideas of performing for an audience in the form of theatre originated in Athens, Greece. Theatrical performance took place for many events, including, but not limited to: religious rituals, politics, law, athletics, the performance of music and poetry, and weddings and funerals.</p>  | <p><b>Bertolt Brecht:</b><br/>Brecht was born in Germany in 1898 served in the First World War. He was appalled by what he witnessed. After the war ended, he perused his career in theatre. When the Nazis came into power before the Second World War, Brecht fled Germany and his citizenship was revoked. The turmoil of the time he lived in gave him a strong opinion on politics and Brecht used the stage as a way to express his personal views.</p>   |
| <p>Our westernised ideas of theatre were mostly developed by the Romans in the 4<sup>th</sup> Century. The growth of the Roman Empire meant that their ideas were brought across to Europe, around the Mediterranean before reaching England, meaning that ideas of theatrical performance had become more varied and sophisticated than ever before. Unlike in Greek theatre, and then later in Shakespearean theatre, women were allowed to perform.</p>                    | <p><b>Henrik Ibsen</b><br/>Ibsen was born in Norway and became one of the greatest Norwegian authors and playwrights of all time, largely responsible for the rise of modern realistic drama. He is often referred to as the "father of modern drama. He is now celebrated as a national symbol by Norwegians (much like how Britain views Shakespeare).</p>  |
| <p>In the early Middle Ages, churches started to adopt theatrical performance to bring to life religious scripture to make it more accessible to those who were unable to read the Latin text that was delivered during this time.</p>  |   |
| <p>Most of the plays that are still on our stages today from the past come from the Elizabethan era, with the famous William Shakespeare, along with other playwrights, taking centre-stage due to Queen Elizabeth's taste for plays. This allowed for widespread entertainment through the performance of plays, and people from all classes would have had access to the theatre. However, many strict, religious people thought that performance of plays was immoral.</p> |   |

| Vocabulary  |   |  |
|---|---|--|
| Theme: an idea that is the basis of a piece of art or literature            | Stage directions: unspoken instructions in a playscript that actors follow                                    | Radical (n): a person who advocates complete change                                      |
| Prose: a piece of writing that follows basic grammatical conventions        | Lines: in a script, this refers to the part of the play the actor has to speak                                | Act: an act divides the play into significant sections. Acts can include several scenes. |
| Poetry: a piece of writing which expresses emotion through style and rhythm | Parable: a story with a moral lesson  |  |
| Drama: a play for theatre, radio or screen                                  | Narrator: not the character in a story, a narrator describes what is happening as the action is taking place. | Scene: a subdivision of an act. When the time or place changes, you have a new scene     |
| Tempestuous: full of strong emotions/affected by a storm                    | Urban: relating to characteristics of a town or city  | Magnum Opus: the masterpiece, or greatest piece of work from a writer.                   |
| Adherence: Attachment/commitment to rules                                   | Exploitation: the action of using someone unfairly for your own benefit                                       |  |
| Endure: suffer for an extended period of time, with patience                | Gravitas: seriousness   | Interlude: a pause in time (also known as an interval in a play)                         |
| Incontrovertible: not able to be denied/disputed                            | Injustice: lack of fairness   | Critic: a person who expresses disapproval of something                                  |

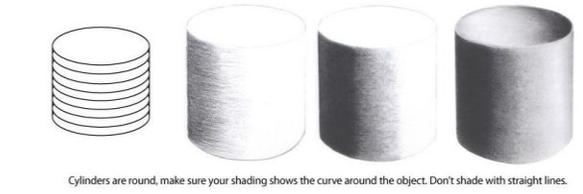
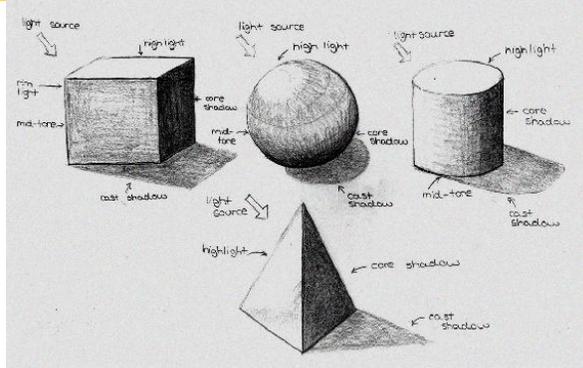
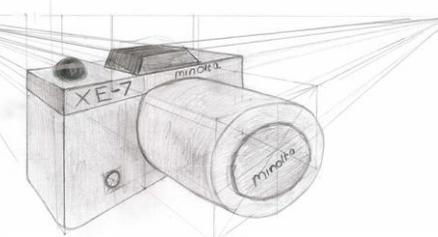
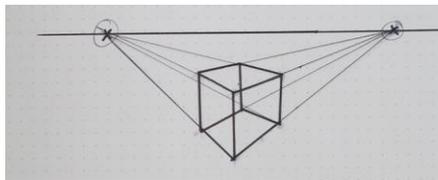
- AO1 Developing ideas- mindmap, montage, artist research
- AO2 Using Resources- testing out ideas/media
- AO3 Recording ideas-photos and drawings
- AO4 Making a personal response- final ideas



1 POINT PERSPECTIVE

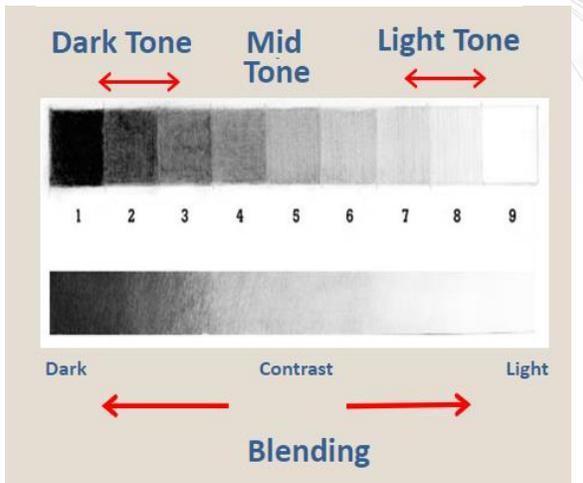


2 POINT PERSPECTIVE



Cylinders are round, make sure your shading shows the curve around the object. Don't shade with straight lines.

tone / shading



**KEYWORDS:**

- Collage
- Mixed Media
- Recycle
- Contrast
- Shape
- Form
- Texture
- Tone
- Observation
- Balance
- Detail
- Collage
- Blending
- Shade
- Arrangement
- Composition
- Realistic
- 3-Dimensional
- Layers
- Sculpture

**Jennifer Collier**



CUT PAPER

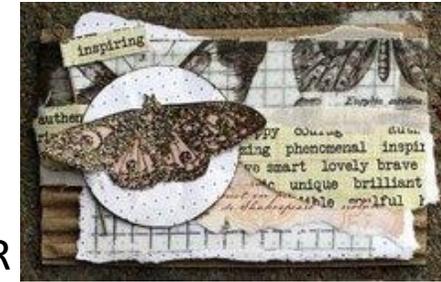
3-DIMENSIONAL

Jennifer Collier is an innovative textiles and crafts artist who uses a combination of natural and found materials.

She often utilises plastics, papers and fabrics in her pieces of work which gives them a new dimension and communicates ideas about recycling, as well as themes exploring the body.



TORN PAPER



STUDENT RESPONSE

