## Bishop Ullathorne Catholic School Knowledge Organiser

## Year 8

## Summer Term 2023-2024



Name

Tutor Group
"If you are not wílling to learn, no one can help you. If you are determined to learn, no one can stop you."

## Your Knowledge Organiser and Self Quizzing Book



## Contents

| Subject | Page | Subject | Page |
| :--- | ---: | :--- | ---: |
| Art | 1 | History | $22-25$ |
| Computer Science | $2-4$ | Mathematics | $26-28$ |
| CPSHE | $5-6$ | Modern Foreign Languages: French | $29-31$ |
| Design and Technology: Art Textiles | 7 | Modern Foreign Languages: Spanish | $32-33$ |
| Design and Technology: Catering | 8 | Music | $34-35$ |
| Design and Technology: Product Design | $9-10$ | PE | $36-41$ |
| Drama | $11-12$ | Religious Education | $42-45$ |
| English | $13-16$ | Science | $46-49$ |
| Geography | $17-21$ |  |  |
|  |  |  |  |

## Knowledge Organiser - Year 8 War and Conflict- German Expressionists

a. Art key words

| Formal <br> Elements | The parts used to make a piece of <br> artwork. |
| :--- | :--- |
| Analogous <br> colours | Colour next to each other on the colour <br> wheel. |

## Skills: Mark making to

 create texture/tonal value Line and inear drawing photograph, drawing, or paintingthat appears closest to the viewer.Background

The area of an artwork that appears farthest away from the viewer; also, the area against which a figure or scene is placed.
Palette

1. The range of colours used by an artist in making a work of art; 2. A thin wooden or plastic board on which an artist holds and mixes paint.


Artists: Max Beckerman Ernest Barlack Otto Dix Käthe Kollwitz Franz Marc

## German expressionism

 was an early twentieth century German art movement that emphasized the artist's inner feelings or ideas over replicating reality, and was characterised by simplified shapes, bright colours and gestural marks or brushstrokes.

Composition is the term given to a
Observational drawing from source.complete work of art and, more
specifically, to the way in which all its elements work together to produce an overall effect. The main types are:


Symmetrical
Home learning tasks:

1. Texture and mark making page
2. Art analysis and copy
3. Image collage

asymmetrical

## Expressionism refers to art in

 which the image of reality is distorted in order to make it expressive of the artist's inner feelings or ideas

Edvard Munch 'The scream' 1893'
Artists:
Edvard Munch
Wasilly Kandinsky
Egon Schiele Paul Klee
4. Planning composition


Convert 8 bit Binary to Denary
Example: Convert the binary number 01000110 into denary.
Step 1: Create a binary table

| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 | Ans |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |

Step 2: Add the binary number (Always work from right to left)

| 128 | $\mathbf{6 4}$ | $\mathbf{3 2}$ | $\mathbf{1 6}$ | $\mathbf{8}$ | $\mathbf{4}$ | $\mathbf{2}$ | $\mathbf{1}$ | Ans |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |  |

Step 3: Add up all the numbers with a 1 underneath them to get your answer

| $\mathbf{1 2 8}$ | $\mathbf{6 4}$ | $\mathbf{3 2}$ | $\mathbf{1 6}$ | $\mathbf{8}$ | $\mathbf{4}$ | $\mathbf{2}$ | $\mathbf{1}$ | Ans |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 70 |

Information Interchange. ASCII uses 7 bit binary numbers which means it can create up to 128 different characters.

Example: Convert the denary number 45 into binary
Step 1: Create a binary table

| 128 | 64 | 32 | 16 | $\mathbf{8}$ | $\mathbf{4}$ | $\mathbf{2}$ | $\mathbf{1}$ | Ans |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | 45 |

Step 2: Place a 1 under each number you use to make up 45

| 128 | 64 | 32 | $\mathbf{1 6}$ | $\mathbf{8}$ | $\mathbf{4}$ | $\mathbf{2}$ | $\mathbf{1}$ | Ans |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 |  | 1 | 1 |  | 1 | 45 |

Step 3: Add a 0 to the left over columns

| 128 | 64 | $\mathbf{3 2}$ | $\mathbf{1 6}$ | $\mathbf{8}$ | $\mathbf{4}$ | $\mathbf{2}$ | $\mathbf{1}$ | Ans |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 45 |

## Keywords

| Keyword | Definition |
| :---: | :---: |
| Algorithm | Step by step instructions to solve a given problem |
| Pattern Recognition | Looking for similarities or characteristics that can help solve the |
| problem |  |



You can write programs for the micro:bit on your computer and then transfer them to the micro:bit to be run.


## Functions

A function is a piece of code that is created with a name and you can call this function anywhere else by using its name.


## Spreadsheet Basics

A spreadsheet is a program that can display and process data is a structured way. You can record data, search and sort, perform calculations and functions and create graphs and charts. A spreadsheet is made up of rows (numbers) and columns (letters).

ABCDEF

## Formatting

 is in Column B
and Row 3

- sit cell
reference is $B 3$.

Data in a spreadsheet can be formatted in the same way any other Office product by used fill, bold, italic, text alignment, and borders. These formatting techniques are unique to spreadsheets:

| Technique | Use |
| :--- | :--- |
| Conditional formatting | The format of the cells changes when a certain condition is <br> met - e.g. Pass or Fail |
| Merge \& centre | Two or more cells can become one. This is useful for <br> headings or labels |
| Text wrap | Let's you display text over a number of lines so the text does <br> not run over into another cell |

## Charts

How to create a chart:

1. Highlight the data you want to use
2. Select the chart type you want from the Insert tab
3. Choose a meaningful title and axis labels

| Bar Graph | Line Graph |
| :---: | :---: |
|  |  |
| Scatter Graph | Pie Chart |
| Graph of ite crean |  |

## Functions and Formula

A formula is an instruction given to the computer to help it process data held in specific cells.

| Function | Use | Example |
| :--- | :--- | :--- |
| SUM | Adds up <br> numbers in a cell <br> range | $=$ SUM(C3:C5) |
| AVERAGE | Finds the <br> average of a set <br> of numbers | =AVERAGE <br> (C3:C5) |
| MIN | Finds the <br> smallest of a set <br> of numbers | =MIN <br> (C3:C5) |
| MAX | Finds the largest <br> of a set of <br> numbers | =MAX <br> (C3:C5) |

An IF statement is used to check if the data matches a certain condition. They can be simple, like the one below, or more complicated with lots of different data matches.


|  |  |  |
| :---: | :---: | :---: |
| IF | VLOOKUPS | VLOOKUP |

A VLOOKUP function displays data from a table in another part of a spreadsheet


## Topics covered include:

Environment and Sustainable
Development and RSE

## Lesson overview

My ecological footprint
Improving my ecological footprint
Bishop Ullathorne's ecological footprint
RSE 5-Tough relationships

| Keywords | Definitions |
| :--- | :--- |
| Ecological <br> footprint | The impact of a person or <br> community on the <br> environment, expressed as the <br> amount of land required to sus- <br> tain their use of natural <br> resources. |
| Sustainable | Conserving an ecological balance <br> by avoiding depletion of natural <br> resources. |
| Equality | The state of being equal, <br> especially in status, rights, or <br> opportunities. |
| Discrimination | The unjust or prejudicial <br> treatment of different categories <br> of people, especially on the <br> grounds of race, age, sex, or <br> disability |
| Prejudice | Preconceived opinion that is not <br> based on reason or actual <br> experience. |

## Carbon vs. Ecological Footprints



The 9 Protected Characteristics



## Disability

Aperson has a disabity if She has a phyyical or mental
imparment which has a substantial and long-tem adverse effect on that
person's ability to cary person's ability to cary
day-to-day activites.


Gender Reassignment



| Keywords | Definitions $\quad 1$ |
| :--- | :--- |
| Business | A person's regular occupation, <br> profession, or trade. |
| Risk | In business, could result in the <br> possibility of financial loss. |
| Entrepre- <br> neur | A person who owns and runs <br> their own business and takes <br> risks. |
| Shifts | Shift pattern days refer to a <br> schedule of working where <br> staff are rostered to work in <br> rotation, for example, the two |
| -shift system rotates two |  |
| teams of staff working morn- |  |
| ings and afternoons (e.g. 6am- |  |
| 2pm and 2pm-10pm). |  |

## Differences between job roles

## there are a number of differences between key joblevels in



- their key responsibilities

- the skills, qual ifications and personal qualities they require
- the related pay and benefits.

| External Risks | Business Risks |  |  |
| :---: | :---: | :---: | :---: |
| Risks related to | Risks related to business activities |  |  |
| the external environment <br> - Economic trends <br> - Attacks from outside <br> - Natural disasters and accidents <br> - Climate change Other | Strategic Risks <br> Risks related to <br> policies and <br> strategies <br> - Management strategy <br> - Businesses environment <br> - Corporate governance <br> - Patrering and withdrawal | Operational Risks <br> Risks related to <br> business processes <br> - Quality, cost, and deadlines for all aspects of business, such as orders, production, shipmentand services Other | Common Risks <br> Risks related to <br> business activities <br> - Human rights and labor practices <br> - Compliance <br> - Information systems <br> - Environmental pollution Other |



Revision Tips and Tricks!


## Year 8 Art Textiles = Portraits

## 3. Techniques

The 3 techniques you will focus on in year 8 is:

| 1. Keywords |  |
| :--- | :--- |
| Sample | A sample is an example of a textile technique you have tried. |
| Composition | The arrangement of the elements (objects) in a piece of creative work. |
| Portrait | A portrait is a representation of a particular person. This could be a <br> painting, photograph, sculpture, or other artistic representation of a per- <br> sons face and shoulders. |
| Texture | How an object looks or feels. An example of texture in textiles is the <br> smooth feeling of satin. |
| Background | How an object looks or feels. An example of texture in textiles is the <br> smooth feeling of satin. |
| Foreground | The part of a composition that appears closest to the viewer. |
| Collagraph | A form of printmaking using a collection of textures that have been col- <br> laged onto a firm surface. |
| Mono Printing | A form of printmaking that has lines or images that can only be made |
| Applique | A sewing technique that involves stitching a small piece of fabric onto a <br> larger one to make a pattern or design. This can be done by hand or us- <br> ing a sewing machine. |
| Hand Embroi- <br> dery | Adding detail, shape and pattern with thread. This can be by hand or <br> machine. |

Mono Printing
Hand Embroidery
Collagraph Printing


## 4. Mono Printing

A type of printing technique that creates a single impression, no two prints will be identical. A modern technique developed in the 1960's.

## 5. Hand Embroidery

A way of creating decorative stitching on fabric. Using a variety of stitches and threads to create embellished surfaces. The techniques originates back to China 5th Century BC.


## 6. Collograph

A printmaking process which creates different tonal qualities using a variety of textured raised surfaces on a printing plate. A modern techniques developed just after the war in America.

9. Artist-Victoria Villasana

Is a textiles artist from Mexico who is interested in history and culture and how people relate to each other in a digital world. She creates embroidery collages on photographs. She uses geometrical patterns and colour to express the human spirit.

8. Artist-Isabella González

Her work relates to the acceptance of living between two extremes, physically and emotionally. Her work involves different layers of fabric embroidered as an intention to mend herself. Her artistic production is deeply grounded in the handmade.

## Catering Year 8 Knowledge Organiser

## Key Points-Bacteria

Bacteria are found everywhere and need the right temperature, time, nutrients, pH level and oxygen to multiply.
Microorganisms (bacteria) are used to make a range of food products such as cheese, yoghurt and bread.
Bacterial contamination is the process of harmful bacterial in our food, which can lead to food poisoning and illness.
As a food handler you must do everything possible to prevent contamination and to control conditions that allow bacteria to multiply: cleaning, cooking, chilling, cross contamination.
The main symptoms of food poisoning are nausea, diarrhoea, vomiting, loss of appetite, mild fever.
Bacterial responsible for cause food poisoning are salmonella, e.coli, listeria and others.

## Key Points-Nutrition

2
Protein is needed for growth, maintenance and repair.
Proteins are built up of units of amino acids.
Fats can be classified as either saturated or unsaturated.
Saturated fats are considered to be more harmful to health because they raise levels of cholesterol.
Carbohydrates provide the body with energy.
Most of our energy should come from complex starchy foods.
Vitamins are micronutrients, required in small amounts to do essential jobs in the body.
Water makes up $2 / 3$ of the body so it is vital to drink regularly.
Nutritional needs change throughout life, but everyone needs to consider.

## Keep food out of ${ }^{3}$

3 Microorganisms need five conditions to grow and multiply: the Danger Zone


## Environmental Health Officer (EHO)

The EHO is responsible for carrying out measure to protect public health and to provide support to minimise health and safety hazards.

## EHO Responsibilities

Check food producers handle food hygienically.
They check food is being stored at the correct temperature.
They review processes sin the workplace e.g. use of correct equipment such as coloured chopping boards.
They inspect food stores such as te fridge and freezers.
They identify hazards.
They ask questions to check compliance


Biological contamination - bacteria which might lead to food poisoning. Symptoms of food poisoning can include diarrhoea, vomiting, headaches and fever.

Physical contamination - foreign materials can cause injury. These could come from metal or plastic from factory machinery, or natural hazards like bones in fish.
Chemical contamination - pesticides or cleaning fluids contaminate food. These could cause severe illness.

| Nutrient | Function and food source |
| :--- | :--- |
| Vitamin A | Keeps the eyes and skin healthy. <br> Found in milk, liver, carrots, red peppers |
| Vitamin B <br> Group | Releases energy from food. <br> Bread, fish, broccoli, milk, peas, rice |
| Vitamin C | Keeps connective tissue healthy. Helps the body <br> absorb iron. <br> Oranges, blackcurrants, red and green peppers |
| Vitamin D | Helps the body absorb calcium for strong bones and <br> teeth. <br> Butter, eggs, milk, oily fish |
| Calcium | Builds strong bones and teeth. <br> Yoghurt, cheese, milk, tofu |
| Iron | Keeps red blood cells healthy. <br> Dark green vegetables, beans, fish, egg yolk, red <br> meat |
| Sodium <br> ( Salt) | Keeps the correct water balance in the body. <br> Cheese, ready meals, salted nuts, bacon |



Metals are used for different purposes because of the properties they have.

| Metal | Property | Used for | Reasons |
| :--- | :--- | :--- | :--- |
| Copper | good <br> conductor <br> of <br> electricity | electrical <br> wires | can pass <br> electricity to <br> the product |
| Stainless <br> Steel | does not <br> rust | kitchen <br> items <br> and sinks | so it can be <br> washed easily <br> and used <br> hygienically |
| Stainless <br> Steel | tough | cutlery | so it can <br> withstand <br> impact |


| 2 | Metal working | tools |
| :--- | :--- | :--- | :--- |

## Year 8 Product Design

Top tips for isometric drawing: Use the grid

Start with the corner
You must have vertical lines (no horizontal)

Make sure you have parallel lines

## 3d printing: Additive

## Manufacturing

Step 1: create a 3D CAD drawing. It is sliced into very thin layers using specialist software


Step 2: heat the polymer filament and extrude it out of the nozzle

Step 3: build the prototypes in very thin layers of filament until complete. It will build from the bottom up, with the build platform moving one slice lower as each layer is created.

Advancements in technology (like 3D printing) is a great thing for manufacturers! Products are made more accurately and more consistently than if people were making it.

However, people will often lose their jobs as technology replaces them.
People may need to retrain and learn new skills for new jobs that are available.

| 5 |
| :---: | :---: | :---: |
| E.g. oak, |
| beech |
| Hard- |
| WOOds |
| E.g. ash, mahogany |

## Thermoforming Polymers

- can be reheated
- can be reshaped
- can be recycled

Examples: acrylic, HIPS, PVC


## Thermosetting polymers

- can't be reheated
- can't be reshaped
- can't be recycled


Examples: urea formaldehyde, polyester resin


Step 1: the former/mould is placed onto the platen. The lever is used to lower the platen.
Step 2: a sheet of thermoforming polymer (HIPS or ABS) is clamped onto the machine using toggle clamps.
Step 3: the HIPS is heated until softened
Step 4: the platen is raised and the vacuum pump is turned on. This removes the air from the chamber and pulls the HIPS around the former/mould.
Step 5: when cool, remove the HIPS and the formers/moulds.

| Mould/ <br> Former |  | The item to be vacuum formed |
| :---: | :---: | :---: |
| Rasp |  | A course file with sharp, pointed projections to material from wood or foam |
| Vacuum forming |  | Heating a piece of thermoplastic and then stretching it over a mould by a vacuum |
| Platen |  | Inside the vacuum former to put formers on. It is raised and lowered by the lever. |

## Year 8 Drama - Brecht and Political Theatre

## Overview of topic: students will develop their knowledge and understanding of Brecht and political theatre.

## Key content/ideas/ concepts

## WHO WAS BRECHT?

> Bertolt Brecht was born in Germany in 1898 and died aged 58 in 1956. He was a poet, playwright and theatre director. His influence is still present in much of theatre and many would argue that Brecht changed the face of modern theatre.
> Brecht made his theatre highly political. He wanted his theatre to spark an interest in his audiences' perception of the world. He did not want his audiences to sit passively and get lost in a show's story, but to make them think and question the world they live in. He encouraged them to be critical of society. His work was often mischievous, provocative and ironic.
> Brecht did not want the audience to have any emotional attachment to his characters, so he did various things to break it. Here are some of the techniques he used.

## SOME OF BRECHT'S TECHNIQUES

Breaking the fourth wall- This is where the imaginary wall between the audience and actors on stage is broken. Rather than allowing the audience to sit passively and get lost in the show, the actors will sometimes directly address the audience with a speech, comment or a question.

Narration- Narration is used to remind the audience that they are watching a story. Sometimes the narrator will tell the audience what is about to happen in the story, before it happens, because if the audience knows the outcome then they may not get as emotionally involved.

Minimal set, costumes, props and lighting- Brecht believes the stage should be brightly lit at all times. That sets should not be realistic, just suggestive. And that actors should use minimal props, often only one per character. Also props can be used in several different ways, for example a suitcase may become a desk.

Using placards- A placard, or projection screen can be used to give the audience some extra factual information, for example it might say how many people have died in a particular war. Placards can also be used to introduce characters in generic ways, e.g. 'mum,' or 'dad.' Placards are also used to introduce a new scene, or to tell the audience when one has finished.

Freeze frames/tableaux- The actors may go into a freeze frame, so as to break the action. Sometimes it's done so that the audience can stop and think critically for moment. And sometimes it's done so that the narrator calh speak, or so that an actor can come out of character and perhaps break the fourth wall.

Keywords/ Glossary
Verfremdungseffekt, or the 'estrangement effect,' was used to distance the audience from the play and is sometimes called the alienation effect.


Wider reading
Wikipedia page has a wealth of information about the social/ political context of Brecht's life and why he created this form of theatre.
https://en.wikipedia.org/wiki/Berto It Brecht



Year 8 English - 'The Merchant of Venice' by William Shakespeare

Symbolism helps readers to visualise complex ideas and track their development easily. They often communicate big ideas in an efficient and artistic way. Symbols usually suggest the growth and changes within a character over the course of the story. Symbolic meaning is often given to simple/ordinary objects (usually of important/sentimental value) or colours which have a far deeper meaning or significance within the novel. For example, they may link to abstract emotions/traits/ideas (greed/guilt/freedom/love.) or they may be linked/ representative of time (past memories or future ambitions/goals.

## Reasons why Writers use symbolism

- To help readers grasp/ visualize complex ideas/themes.
- To make a text more emotive
- To allow writer's to communicate 'big ideas; more efficiently

To introduce controversial topics/ ideas in a subtle and sensitive way

## Where can we see symbolism in 'The Merchant of Venice?

The Caskets made of lead, silver and gold. To win Portia, Bassanio must ignore the gold casket, which bears the inscription, "Who chooseth me shall gain what many men desire" (II.vii.5), and the silver casket, which says, "Who chooseth me shall get as much as he deserves" (II.vii.7). The correct casket is lead and warns that the person who chooses it must give and risk everything he has. The contest combines a number of Christian teachings, such as the idea that desire is an unreliable guide and should be resisted, and the idea that human beings do not deserve God's grace but receive it in spite of themselves. Christianity teaches that appearances are often deceiving, and that people should not trust the evidence provided by the senses-hence the humble appearance of the lead casket. Faith and charity are the central values of Christianity, and these values are evoked by the lead casket's command to give all and risk all, as one does in making a leap of faith.

## Themes

PREJUDICE: The Venetians in The Merchant of Venice express extreme intolerance of Shylock and the other Jews in Venice.
Shakespeare seems to criticise this prejudice and allows Shylock to vent his fury at being mistreated and abused.

What the Caskets symbolise
Lead could be used to represent: People prepared to take risks and make sacrifices
People not easily fooled be appearances
Spiritual, intellectual people People prepared to give more than they receive.


Silver could represent:

- People being cautious
- People who try to be
something they are not
- People who take the less difficult route
People who sacrifice spiritual health for material wealth.



## Gold could be used to

 represent:Greed
People taken in by flashy outward appearances Materialistic People People who take without giving .



9
'I hold the world but as the world, Gratiano-
A stage, where every man must play a part;
And mine a sad one.
Antonio presents the view that men occupy different roles in life. According to this personal perspective, every individual "must play a part"; some must win, some must lose. The world is "but as the world," a bland reality that lacks imaginative possibilities, and, every man has "a part." Antonio is an individual, but he is also interpreted in association with other parts and is made up of a combination of various social, racial, ethnic, and religious categories. Tensions between these categories will develop as the play continues.
'Still I have borne it with a patient shrug, For sufferance is the badge of all our tribe You call me misbeliever, cut-throat dog, And spit upon my Jewish gaberdine,
And all for use of that which is mine own.
As in many other moments of The Merchant of Venice, Shylock here describes the type of prejudice and discrimination that he faces, and that "all our tribe" faces, in Venice. Ye here Shylock also explains that the very individuals who criticise him as a "misbeliever" or "cut-throat dog," also use him as a money-lender, borrowing his own funds -- "that which is mine own." Shylock exposes the unfortunate contradiction that Venetians mistreat the individuals whom they need, the money-lenders who fulfill an essential and respectable function in society. The injustices he lists here also serve to make Shylock a more complex character -- one who is portrayed as a stereotypical villain, but who has possibly been made that way by the prejudice of a "Christian" society.


## 1 ENGLISH: YEAR 8-End of Year Exam-Explorations in Reading and Creative Writing.

## THE BASICS:

Read the text - 5 mins

## Section A

## Q1 - List 4 things (4 marks)

Q2a-Identify and select information to prove a point. (2 marks)
Q2b - How does the writer use language to... (4 marks)
Q3a-Identify and select information to prove a point. (2 marks)
Q3b - How does the writer use language to... (4 marks)
Q4a - How does the writer shape and influence the thought of the reader... (1 marks)
Q4b - Explain your thoughts and ideas using a quotation from the text (3 marks) Q5a - The opening: Select the correct structural feature (1 marks)
Q5b - Explain how structural features
keep reader engaged?
Q5c - The middle: Select the correct structural feature (1 marks) Q5ci - Explain how structural features keep reader engaged?
Q5d- The end: How does the writer choose to end the story and why? (4 marks)
Q6: [statement] To what extent do you agree? (8 marks)

## Section B

Q5: Write a continuation of the story showing an understanding of what you have read. Stay true to the form and style of the original story and ensure a logical sequence ( 45 mins including planning time.)

## 2 Section A: Question 1

Question stem: Write down four things you learn...

1. Read the question and highlight the key words, including the lines it asks you to focus on.
2. Draw a box around the lines you need to focus on in the insert.
3. Write in full sentences.
4. One point per line.
5. Keep it simple i.e.
explicit inferences.

5

## Question 6

Question stem: '[statement about the text]' To what extent do you agree?

1. Read the question and highlight the key words, including the section of the text if specified. Think carefully about how far you agree with the statement. 2. Draw a box around the section of the text specified. 3. Read through and highlight words/phrases/language devices you will use to argue FOR, and maybe against the statement

3

## Question 2-4

Question stem: How does the writer use language to..

1. Read the question and highlight the key words to ensure you understand what the focus of your answer will be.
2. Re-read the section of text the question asks you to focus on.
3. Highlight key quotations which will help you answer the focus of the question. Consider the use of different lanquage devices.

## REMEMBER

## 4

## Question 5

Spotting the device is not the important part: it's being able to say why it is used and what its impact is upon the reader.
Question stem: How has the writer structured the text to interest you as a
reader? (What goes where and why?)

1. Read the question and highlight the key words. This question is about how the text is put together and organised, rather than the language devices used. 2. Annotate where you see evidence of the following structural features:

* Dialogue
* Setting
* Shift in focus
* Time

3. Skim through the whole source again. Highlight and label where you see different features particularly focus on how the opening and ending are effective.

ENGLISH: YEAR 8- End of Year Exam-Explorations in Reading and Creative Writing.
6.

Write a continuation of the story. Planning (THIS IS REALLY IMPORTANT!) 1. Decide which elements of the original story you will include. 2. Plan using the structures below.
3. Write your story. REMEMBER: If you do not show your teacher you can do use a certain skill (e.g. use capital letters/ adventurous vocabulary/ paragraphs/ varied punctuation etc.) They are left to simply assume you can't. You do not have hours and hours, so quality is preferred over quantity.
9.


fe. A month ago, we watched as the day age darkness surrounded the whel world, eliminating everything in its path. Today, I desperately seek other survivors.
-V.S.S The VERY SHORT SENTENCE
Deliberate use of a sentence consisting of no more than 5-6 words in total. Must be for effect and every word must count.

- Out went all light.
- Call me Ishmael.

Prepositional openers - used to show the relationship between the noun and other words in a sentence

- In a flurry ..
- Off in the distance ...
- Throughout ...
- Since last year ...

7. 

## How do I open a sentence without using an article or pronoun?

Transitional openers - to begin sentences with interruptions or to change the direction of your story / argument

- Pop! He sent small smokerings in to the air.
- Moreover, they did not realise there would be no phone signal here.

Clausal openers- use any of the
clausal words to start a sentence clausal words to start a sentence although, if)

- When she demanded it back, Toby confessed that he had...
- If he had got here sooner, we wouldn't have had to queue
ing or -ed openers. Use of a verb in its present or past form
- Frightened, the child backed away ...
- Singing softly, mum soothed my brother
- Having far to much fun, they decided to stay another hour ...

| Adverb openers - a word or |
| :--- |
| phrase that modifies the |
| meaning of an adjective or |
| other adverb expressing |
| manner, place, time or degree |
| - Tentatively |
| - Confidently |
| - Slowly | phrase that modifies the meaning of an adjective or other adverb expressing manner, place, time or degree

- Tentatively
- Confidently
- Slowly

| Double adverb | Horror genre | Emotion comma sentence |
| :---: | :---: | :---: |
| Slowly but surely, the darkness surrounded everything they loved and cherished. | Without warning, the candle vanished as if the flames had been suddenly nipped between a finger and thumb and darkness surrounded her once more, leaving her alone with the figure that no longer needed to lurk in the shadows. | Terrified, she froze instantly on the spot where she stood, the darkness surrounded her from every corner. |
| Make the reader feel hope <br> Although darkness surrounded humanity, they knew enduring the darkness would show them the stars and guide them back to the light. | ...darkness surrounded... | Developing character <br> Darkness surrounded my thoughts, leaving me in this abyss of sadness and despair, unable to escape its pull. |
| A year ago. A month ago. A day ago. Today. <br> A year ago, Earth was vibrant and full of life. A month ago, we watched as the meteoroid soared towards our planet. A day ago, darkness surrounded the whole world, eliminating everything in its path. Today, I desperately seek other survivors. | Mediares <br> Darkness surrounded the battlefield as he fumbled over the top, trying his best to avoid staring at the fallen souls of the men he once called his friends. | The more, the more <br> The more he succumb to the forces of evil, the more the darkness surrounded him, extinguishing the last ray of light within him. |




| 8 | FACTORS THAT AFFECT CLIMATE |  |
| :---: | :--- | :--- |
| 1 | Latitude | Locations that are further <br> North/South of the equator <br> receive less heat energy from <br> the Sun. |
| 2 | Altitude | Temperatures decrease with <br> altitude. There is a $1^{\circ} \mathrm{C}$ drop in <br> temperature for every increase <br> of 100 m in height. |
| 3 | Prevailing <br> winds | Prevailing winds are the domi- <br> nant wind direction in an area. <br> The temperature of the wind <br> and the amount of rainfall <br> partly depend on where the air <br> has come from. |
| 4 | Distance <br> from the <br> sea. | Coastal areas are most affect- <br> ed by the sea. The sea takes <br> longer to heat up and cool <br> down than land. |
| 5 | Coastal cur- <br> rents | The effect that ocean currents <br> have on the temperature de- <br> pends on whether the ocean <br> current is hot or cold. |


| Depres- <br> sion |  | WEATHER MAPS <br> A low-pressure weather <br> system associated with <br> wet and windy weather |
| :--- | :--- | :--- |
| Warm <br> front | When a warm air mass <br> moves into an area of <br> cold air. |  |
| Isobar | A line to show equal air <br> pressure. |  |
| Air mass | A large area of air with the <br> same temperature and <br> humidity. |  |
| Cold <br> front | When cold air pushes into <br> an area that has warmer <br> air |  |
| Air <br> pres- <br> sure | How heavy the air is. <br> Measured in millibars. |  |
| Low <br> pres- <br> sure | When air is rising. Clouds <br> form |  |
| High <br> pres- <br> sure | When air is sinking. No <br> clouds form |  |
| Cloud <br> cover | How much of the sky is <br> covered by cloud. Meas- <br> ured in Oktas by eye. |  |
| Anticy- <br> clone | A high-pressure weather <br> system associated with <br> fine and calm weather. |  |



## YEAR 8 GEOGRAPHY - RUSSIA

| 1 | KEY VOCABULARY |  |
| :---: | :---: | :---: |
| Asia The continent occupying the area between Japan in the East, Turkey <br> in the west, India in the South and the Arctic in the North. |  |  |
|  | Biome | A large area with common flora, fauna and climate characteristics |
|  | Chemical Waste | Toxic chemicals released as a by product of industrial activity, often have negative effects on the environment |
|  | Dense Population | An area where many people are found per square km |
|  | Dzerzhink | The most polluted city on earth |
|  | Geopolitics | An politics, especially international relations, as influenced by geographical factors |
|  | Permafrost | Permanently frozen subsoil |
|  | Sparse Population | An area where few people are found per square km |
|  | Superpower | A country which exercises political, economic or military power over a large area beyond its own national borders |
|  | Toxicity | The level to which a substance is harmful to humans and wildlife |



## $3 \quad$ POPULATION DENSITY OF RUSSIA



## CHERNOBYL NUCLEAR DISASTER

- In the early morning of the 26th of April 1986, engineers were running safety tests at the Chernobyl nuclear power station.
-There were four reactors at the station and they were testing reactor number four.
-During one of the tests something went wrong and there was a massive power surge which meant that the reactor gave out more power than normal.
-The power output was 100 times more than what the reactor normally released.
-This sudden release of such a huge amount of power led to a massive and violent explosion and fire!
-The explosion was so powerful that the 1,000 tonne concrete top of the reactor was blown off!
-With no top on the reactor this meant that radioactive material from the reactor was blasted in the air (like a volcanic explosion) with huge chunks of radioactive material landing on the ground around the reactor and radio active material going up into the atmosphere.


## 5 IMPACTS OF THE CHERNOBYL NUCLEAR DISASTER

- 2 people died when the reactor exploded, 29 people died of over exposure to radioactive material within 5 days of the explosion.
- It is not known for sure how many people have died as a result of the Chernobyl nuclear explosion.
- It is certain that statistics show that the accident at Chernobyl has had a devastating effect on the populations of nearby areas.
- It is unknown how many of the 600,000 people exposed to the radioactive material were later diagnosed with cancer.
- Since the accident the number of cases of thyroid cancer have risen dramatically.
- In 2014 there had been 12,000 cases of thyroid cancer diagnosed, most of those diagnosed where children or teenagers who were exposed at the time of the accident.
- It has been claimed that people who were exposed had issues with their DNA but this has never been proven by scientists.

6 SALISBURY NERVE AGENT ATTACK
On 4 March 2018 emergency services received a phone call from members of the public in Salisbury who had seen an old man and a young woman ill on a bench. It was a call that would set in motion a chain of events leading to a major crisis with Russia.

A few hours later, the next call went to Porton Down, home to Britain's biological and chemical research establishment. A rapid-response team was quickly deployed. Samples analysed in labs on-site identified A234, a military-grade nerve agent from the Novichok family developed by the Soviet Union in the Cold War.

## THE MOST POLLUTED CITY IN THE WORLD

Located about 400 kilometres east of Moscow, the city has been given the title of the most polluted city in the World. Russia has two of the world's top ten most polluted cities, the other being, Norils.

- During the Soviet period, Dzershinsk was one of Russia's most vital sites for chemical manufacturing, including chemical and biological weapons.
- Production of various chemical weapons started in the 1940s, including mustard gas. In addition to arsenicbased weapons production, prussic acid and phosgene were also produced. Chemical weapons production at Dzerzhinsk ceased in 1965, the city, Until recently, officially closed to foreign visitors.
- The soils is contaminated, the river water full of chemicals, in short, the whole environment is contaminated.
- It is estimated that around 190 identified chemicals in the course of Dzerzhinsk's history have been released into the groundwater and when water samples were taken within the city they showed levels of dioxins and phenol thousands of times above recommended levels.
- Between 1930 and 1998, about 300,000 tons of chemical wastes were dumped in the surrounding areas.
- These sites include landfills, toxic waste burial grounds, and a so-called "white sea", composed of disposed chemical wastes.
- Today, modern-day Dzerzhinsk is still a significant center of the Russian chemical industry. There are currently 38 large industrial enterprises, which export their goods worldwide. About one thousand varieties of chemical products are produced in Dzerzhinsk.
- High concentrations of toxic phenol in the air have led to residents of Dzerzhinsk suffering from increased levels of diseases and cancers of the eyes, lungs, and kidneys. Sulfur dioxide in the air also remains a big problem.

8 RUSSIA ANIMAL ADAPTATIONS
Artic Fox-thick fur that changes during summer and winter months. Summer thinner, brown coat and winter whiter thick coat. Paws are curved to push away snow when running. Tail acts as extra insulation to keep warm whilst sleeping. Short legs so they are close to
 the ground.

Artic Ground Squirrelshibernate for 8 months underground when it is coldest. They keep their body temperatures low. They slide along the ground to keep away from predators by doing the 'tundra glide' Caribou - They have a thick double coat to keep them warm and dry. Their coat can trap air which makes them buoyant whilst swimming. They have a stocky body and a short tail. Their noses can retain hear and moisture.

## Artic Terns -

Tend to migrate during Winter to warmer Locations. They nest with Other birds for protection And then have a higher metabolic rate than other birds to gain energy for long distance flights.


Section 1: Key words

| Abolition | When something is abolished or banned, like the slave trade in 1807 |
| :---: | :---: |
| Britannia | female figure used to symbolise British Empire |
| Colony | Country that is part of an empire. |
| Commonwealth | A group of countries that were once part of Britain's Empire |
| Compensation | Money paid to make up for injury or damage |
| Conquest | One country takes over another |
| Democracy | Political system where people have the right to vote |
| East India Company | Trading company that took control of India |
| Empire | Group of countries, people or land ruled by one single country referred to as "mother" country. |
| Immigration | People moving to another country |
| Imperialism | The act of building an empire. |
| Legacy | What someone or something leave |
| Migration | Movement of people from one place to another |
| Nationalism | Wanting your country to be the best or to be free from someone's empire |
| The Raj | Period of British rule in India after 1857. From the Hindi word for reign. |
| Trade | System of exchange of goods |
| Windrush | Organised migration people from West Indies |

To get valuable raw materials from the colonies that could be used in Britain's growing industry and to get exotic products that could then be sold to people in Britain. America and the West Indies were very important because of the growing of cotton, sugar and tobacco.

So Britain could sell goods to the colonies to make money. India, Africa and Australia were very important colonies for this reason.

## Section 2: Why did

 Britain want an empire?

To compete with rival countries for power like France, Holland, Spain and Portugal. This is one of the reasons why places like New York, Canada and Gibraltar were taken over.



To spread Christianity around the world. This is one of the reasons why parts of Africa are taken over in the 1800s. Many indigenous people in Australia, New Zealand and the Pacific Islands also converted to Christianity,

| 1492 | Christopher Columbus 'discovers' the West Indies |
| :---: | :---: |
| 1496 | Henry VII gave John Cabot the permission to find land. |
| 1497 | Cabot sailed to America and discovered Newfoundland. |
| 1560s | British traders begin to buy and sell African slaves in America |
| 1583 | Humphrey Gilbert claimed Newfoundland to be owned by Britain. |
| 1600 | British first start trading in India. |
| 1607 | First successful British colony is started in North America. |
| 1642 | Sugar is first grown in the British colony of Barbados. |
| 1655 | The British defeat the Spanish and take Jamaica. |
| 1665 | The British seized a town called New Amsterdam from the Dutch and renamed it New York. |
| 1710 | The British take over much of Canada. |
| 1757 | Victories by Robert Clive drive out the French and established British control in India |
| 1769 | 1769 Captain James Cook claims New Zealand |
| 1857 | Rebellion in India (Indian Mutiny). British government took over India from the East India Company. |
| 1890 | Cecil Rhodes and his trading company took over a large area of Central Africa on behalf of the British Empire and called it Rhodesia |

KS3 History knowledge organiser: end the Slave Trade?

Section 1: Key words

| Abolition | When something is abolished or banned, <br> like the slave trade in 1807 |
| :--- | :--- |
| Discriminate | To treat unfairly favourably or <br> unfavourably, especially on the basis of <br> race or gender |
| Homeward <br> Passage | The third stage in the transatlantic slave <br> trade with ships carrying items grown or <br> made in the Caribbean or the Americas, <br> such as sugar or tobacco, to Europe to <br> sell (see also Triangular trade) |
| Middle Passage | The sea journey undertaken by slave <br> ships from West Africa to America and <br> the Caribbean. |
| Oppression | Domination by others in a harsh or <br> unwanted way |
| Outward Passage | The first stage in the transatlantic slave <br> trade with ships carrying goods from <br> Europe to trade in Africa for captured <br> Africans (see also Triangular trade) |
| Overseer | Person on a plantation paid a wage to <br> organize the work of the enslaved <br> people; manager |
| Plantation | A large area of farmland, or estate, <br> planted with particular crops. |
| Racism | A belief that one group of people is <br> inferior, or superior to another because <br> to their race. |
| Resistance | To fight and protest against an <br> authority or power that you think is <br> wrong. |
| Return Passage | The third stage in the transatlantic slave <br> trade with ships carrying items grown or <br> made in the Caribbean or the Americas, <br> such as sugar or tobacco, to Europe to <br> sell (see also Triangular trade |

Section 2: Timeline of the Slave Trade and abolition in the British Empire

| 16th and 17th <br> centuries | Portuguese traders took slaves from Africa to work in the Portuguese colony of Brazil and the Spanish colonies of South America. As many as 350,000 Africans <br> were taken in this way as slaves to the Americas. |
| :--- | :--- |
| $\mathbf{1 5 6 2}$ | First English slaving expedition led by Sir John Hawkins |
| $\mathbf{1 6 5 5}$ | Jamaica is captured and also becomes part of the Empire with slaves being sold to planation owners. |
| $\mathbf{1 6 7 2}$ | The Royal African Company was set up to trade African slaves to the sugar plantations of the West Indies. |
| $\mathbf{1 7 7 8}$ | Slavery made illegal in Scotland. |
| $\mathbf{1 7 8 7}$ | A group of 12 Christian men led by M.P. William Wilberforce form a group with the aim of abolishing slavery, The Committee for the Abolition of the Slave <br> Trade. The campaigners boycotted sugar, wrote letters and presented petitions. One member, Thomas Clarkson went on a speaking tour, showing people <br> chains and irons and a model of a slave ship. |
| $\mathbf{1 7 8 9}$ | Olaudah Equiano publishes The Interesting Narrative of the Life of Olaudah Equiano, or Gustavus Vassa, the African. He also forms the 'Sons of Africa' , a <br> group of ex slaves who campaign against the slave trade. |
| $\mathbf{1 7 9 0}$ | The first bill for the Abolition of the Slave Trade fails. |
| $\mathbf{1 7 9 1}$ | Slave rebellion on the island of St Domingue (later Haiti) led by Toussaint L'Ouverture. |
| $\mathbf{1 7 9 2}$ | House of Lords reject an Abolition Bill passed by the House of Commons. |
| $\mathbf{1 8 0 4}$ | Slave rebellion on the island of St Domingue successful and the first independent black state outside Africa - Haiti - is established. |
| $\mathbf{1 8 0 7}$ | On 25 March, transatlantic slave trade abolished by the British Parliament. |
| $\mathbf{1 8 3 3}$ | The Abolition of Slavery Act is passed by the British Parliament, abolishing the practice of slavery in all British territories. |

A diagram that shows how the Slave trade triangle worked.


## Section 3: What was the Trade Triangle?

The slave trade began with Portuguese (and some Spanish) traders, taking mainly West African (but some Central African) slaves to the American colonies they had conquered in the 15th century. British sailors became involved in the trade in the 16th century and their involvement increased in the 18th century when the Treaty of Utrecht (1713) gave them the right to sell slaves in the Spanish Empire. The slave trade made a great deal of profit for those who sold and exchanged slaves. Therefore, they often ignored the fact it was inhuman and unfair
At least 12 million Africans were taken to the Americas as slaves between 1532 and 1832 and at least a third of them in British ships.
For the British slave traders it was a three-legged journey called the 'triangular trade': QWest African slaves were exchanged for trade goods such as brandy and guns. ©Slaves were then taken via the 'Middle Passage' across the Atlantic for sale in the West Indies and North America.
© Finally, a cargo of rum and sugar taken from the colonies, was taken back to England to sell.

## Section 4: What was the Middle Passage?

The voyage from Africa to the New World of the Americas was called the Middle Passage. Slave ships usually took between six and eleven weeks to complete the voyage. Slave ships made large profits by carrying as many slaves as possible across the Atlantic to sell at auction. There were two methods of loading the ship:
It was expected that some would die but a large number would survive the voyage. A ship's hold was cramped - only five feet high, with a shelf running round the edge to carry yet more slaves. The slaves were loaded in so close together that one captain described them as being 'like books on a shelf'.
QSlaves were chained and movement was restricted
QSlaves were unable to go to the toilet and had to lie in their own filth. Sickness quickly spread.
[ Slaves were all chained together. If a slave died, the body could remain in the hold for hours, still chained to other living slaves.
[0 The state of the hold would quickly become unbearable - dark, stuffy and stinking. The heat and the foul air were so bad that a candle would not burn.
[ African slaves were often unable to digest the food carried by the European crew, making the sickness worse. Many weakened quickly and died.
Q Sick slaves were often denied food and left to die.
2The crew often mistreated the slaves - women could be subject to rape
Slaves were usually forced to dance on deck for an hour a day to keep them fit. Any resistance was dealt with harshly
QSome slaves became suicidal. There are accounts of slaves drowning by throwing themselves overboard rather than enduring any more.

A plan from the slave ship, the Brookes showing how slaves were packed onto it.


## Section 5: A life of Slavery

- When enslaved Africans arrived in the Americas, they were often alone, separated from their family and community, unable to communicate with those around them.
- The following description is from 'The Interesting Narrative of the Life of Olaudah Equiano':"When we arrived in Barbados (in the West Indies) many arrived in Barbados (in the
merchants and planters came on board and examined us. We were then taken to the merchant's yard, where we were all pent up together like sheep in a fold. On a signal the buyers rushed forward and chose those slaves they liked best."
- Depending on where they had arrived, the enslaved Africans were sold through agents by public auction or by a 'scramble', in which buyers simply grabbed whomever they wanted. Sales often involved measuring, grading and intrusive physical examination.
- Life expectancy was short, on many plantations only 7-9 years.
- It was a life of endless labour. They worked up to 18 hours a day, sometimes longer at busy periods such as harvest. There were no weekends or rest days.
- The dominant experience for most Africans was work on the plantations

A Poster from 1861 advertising a slave auction


Slaves working on a sugar planation in Jamaica in the 1800 s.


Section 6: When and why was Slavery abolished?
There were 4 main reasons why Slavery was abolished in the British Empire: 1. Slavery wasn't making as much money:

The price of sugar decreased in the 1770s forcing plantation owners out of business meaning demand for slaves was reduced.

- Some people said that slaves did not work hard enough to make plantations profitable.


## 2. Slaves helped end slavery:

- Toussaint L'Ouvetre's slave rebellion in St Domingue in 1790 resulted in slavery being outlawed and the island being renamed Haiti.
- The rebellion proved that slaves could resist their owners and run a country successfully.

3. Black people proved the racists wrong:

- Slaves successfully persuaded judges in courts to free them.
- Oloudah Equiano tirelessly campaigned to convince the people of Britain that slavery was wrong.

4. The anti slavery campaigners:

- 12 Christian men including William Wilberforce formed a group to abolish slavery. Wilberforce made lots of speeches in Parliament.
- This helped the slave trade to be abolished in 1807 and slavery in the British Empire was abolished in 1833


Toussaint L'Ouvetre


Oloudah Equiano


William Wilberforce

KS3 History knowledge organiser:

## Year 8 Summer term 2: How far should Britain be proud of the

 history of its Empire?| 1880-1900 | Over $80 \%$ of Africa is divided up among European countries and part of their empires. |
| :---: | :---: |
| 1907 | 1907 Australia and New Zealand given 'dominion' (selfgoverning) status |
| 1914 | Indians fought alongside British soldiers in WW1 |
| 1919 | British soldiers massacred a peaceful gathering at Amritsar, India |
| 1919-21 | Ireland rebellion,. Leads to an independent Irish Free State but Northern Ireland remaining as part of Britain. |
| 1926 | British government agree Canada, Australia, New Zealand \& South Africa independent countries |
| 1931 | Commonwealth formed of all former \& current colonies. Today this is 54 countries, 1.3 billion people. |
| 1935 | After protests led by Gandhi, a Government of India Act gave Indians the right to control nearly everything except the army. |
| 1939-1945 | As in WW1, many Indians fought alongside British soldiers in the Second World War. 2.5 million Indians fought in the largest volunteer army in history. |
| 1947 | Britain stopped ruling India. It was replaced by two independent countries: India for the Hindus and Pakistan for the Muslims. The million Sikhs in India would have to decide where they live. It led to many problems that still go on today. |
| 1948 | Nationality Act passed giving UK citizenship to everyone in Commonwealth |
| 1950s | Sudan; Gold Coast becomes independent, re-named Ghana |
| 1960s | 1960s Cyprus, Somalia, Sierra Leone, Uganda, Gambia become independent states |
| 1980 | 1980 Rhodesia becomes independent state, re-named Zimbabwe. |

## Section 2: How 'great 'was the British Empire?

The impact and legacy of empire is one of the most controversial and passionately debated topics in British history. In the past people were strongly encouraged to celebrate the idea of the British empire and the countries that were part of it. This picture from the early 1900s is a typical example of this:



One example of historians who highlighted the positive impact of the British Empire was Lawrence James who wrote :' At first the British Empire was about making money, but during the nineteenth and twentieth centuries the British Empire improved the lives of millions of people.'


Other historians like Denis Judd have offered an alternative view: 'When Imperialists boasted that 'the sun never set on the British Empire', critics said that this was because God didn't trust the British in the dark. Much of what the British got up to in their empire was selfish and destructive.'

## $\checkmark$ Established English as global language

$\checkmark$ Gave common law and democracy to colonies (eventually...)
$\checkmark$ Infrastructure - Britain gave its colonies better roads and railways
$\checkmark$ Brought about a modern, global economy (though Britain mostly benefitted)
$\checkmark$ Three of richest largest countries are former colonies (America, Canada and Australia)
$\checkmark$ Helped to abolish slavery
$\checkmark$ Built school and universities in Africa
$\checkmark$ Led to formation of Commonwealth which now brings over 50 former colonies together and has led to diverse population of Britain
$\checkmark$ Sports - helps bring together nations through shared sports

X Much culture and resources ruined or taken from Africa, including people as slaves
$X$ Countries could not rule themselves.
X Many British politicians, businessmen and traders were simply concerned with making money
$X$ British first to use concentration camps in South Africa against the Boers
X Europeans created new countries in Africa that cut through tribal regions
X Religion - missionaries sent with Empire forced Christianity to colonies, stop other religions
X Former colonies not always helped to become self-governing and this allowed corrupt leaders to take power and former colonies suffer from war, famine and genocide
X Colonies had to provide soldiers who fought and died for Britain WWI and WWII.

1. Finding percentages of amounts (with a calculator)
We can use decimals to help find a percentage of something.

Calculate 42\% of 500
Convert the percentage to a decimal.
Divide by $100: 42 \%=42 \div 100=0.42$
Multiply 500 by $0.42: 500 \times 0.42=210$
Calculate 87\% of 94
Convert the percentage to a decimal.
Divide by $100: 87 \%=87 \div 100=0.87$
Multiply 94 by 0.87: $94 \times 0.87=81.78$
2. Percentage increase

A bank pays $15 \%$ interest per year.
How much will I have if I invest $£ 20$ for one year?
What percentage of the original have you now got?
$100 \%+15 \%=115 \%$
What is $115 \%$ as a decimal?
$115 \%$ is equivalent to 1.15 .

### 1.15 is the multiplier.

To increase an amount by $15 \%$ we multiply by 1.15 .

$$
£ 20 \times 1.15=£ 23
$$



## 3. Percentage decrease

A woman goes out to buy a scarf for $£ 20$.
The shop is having a $35 \%$ off sale.
How much did the woman pay for the scarf?
What percentage of the original have you now got? $100 \%-35 \%=65 \%$

What is $65 \%$ as a decimal? $65 \%$ is $\mathbf{0 . 6 5}$ as a decimal.

### 0.65 is the multiplier.

To decrease an amount by $35 \%$ we multiply by 0.65 .

```
£20\times0.65=£13
```

$$
\text { percentage change }=\frac{\text { actual change }}{\text { original amount }} \times 100 \%
$$

## 4. Percentage change

Billy has had a pay increase from $£ 9.48$ per hour to $£ 9.83$ per hour.

Write the increase as a percentage.
actual increase in hourly pay: $£ 9.83-£ 9.48=\mathbf{£ 0 . 3 5}$
increase as a percentage: $\frac{0.35}{9.48} \times 100 \%$ using a calculator: $\frac{0.35}{9.48} \times 100=3.7 \%$ (1 d.p.)

The number of workers at a factory is reduced from 721 to 684 .

Calculate the percentage reduction.

$$
\text { actual reduction: } 721-684=37
$$

percentage reduction: $\frac{37}{721} \times 100 \%$ using a calculator: $\frac{37}{721} \times 100=\mathbf{5 . 1 \%}$ (1 d.p.)

1. Horizontal and vertical lines
, Linear graphs are straight line graphs, you can plot ( $x, y$ ) coordinates to draw them

## 1 A. Horizontal lines <br> 11 Draw the graph of the line $y=5$ <br> 

The $y$ coordinate is always 5 .

## 

11 B. Vertical lines
I' Draw the graph of the line $x=3$

$(3,1)$
$(3,2)$
$(3,3)$

The $x$ coordinate is always 3 .

## Maths Y8-Graphs

## 3. Intercept

Where the line ; crosses the $y$ axis. I It can be written as a coordinate (0, 2)


## 2. Plotting straight line graphs using a table

Draw the graph of the line $y=2 x+1$
To get the $y$ coordinate given the $x$ :


## 4. Gradient

How steep the line is, the steeper the line the bigger the gradient.
If the line goes up from left to right it has a positive gradient.
If the line goes down from left to right it has a negative gradient.
We draw a triangle under the line, and calculate the value of:


$$
\frac{\mathrm{up}}{\text { across }}=\frac{2}{2}=1
$$

It doesn't matter where you draw the triangle.
6. Parallel lines

Parallel lines are like train tracks they stay the same distance apart and never meet.

Parallel lines have the same gradient


5. The equation of a straight line

## $\mathbf{y}=\mathbf{m x}+\mathbf{c}$

$\mathrm{m}=$ gradient of the line
$\mathrm{c}=\mathrm{y}$ intercept
(where the line crosses the $y$ axis)
Find the equation of this line


It is always easiest to find the intercept $c$.
This line intercepts the $y$ axis
at 4.
$c=4$
$y=m x+4$

The gradient is:

$$
\begin{gather*}
\frac{\text { up }}{\text { across }}=\frac{9}{3}=3  \tag{3,0}\\
m=3
\end{gather*}
$$

The equation of this line is:

$$
y=3 x+4
$$


7. Solving simultaneous equations graphically Solve these simultaneous equations by drawing their graphs.

$$
y=2 x \text { and } y=x+1
$$

The point $(x, y)$ where the graphs intersect lies on both graphs.
The point of intersection is $(1,2)$

$$
x=1 \text { and } y=2
$$



The coordinates of the point of intersection are the solution of the simultaneous equations.


## Maths, Y8—Pythagoras

12. Pythagoras' theorem explained


4 cm

"For any given right angled triangle. The area of the two smaller squares add up to the area of the largest square."

In this case we can see that;

1) The square made from the 3 cm side has an area of $9 \mathrm{~cm}^{2}$ ( 9 boxes)
2) The square made from the 4 cm side has an area of $16 \mathrm{~cm}^{2}$ ( 16 boxes)
3) The square made from the 5 cm hypotenuse has an area of $25 \mathrm{~cm}^{2}$ ( 25 boxes)

Therefore
$3^{2}+4^{2}=5^{2}$ (sides)
$9+16=25$ (squares)
4. The formula
$a^{2}+b^{2}=c^{2}$
5. Finding a missing side (hypotenuse)


$$
\begin{aligned}
& a^{2}+b^{2}=c^{2} \\
& 6^{2}+8^{2}=c^{2} \\
& 36+64=c^{2} \\
& c^{2}=100 \\
& c=\sqrt{100} \\
& c=10
\end{aligned}
$$

## 7. Pythagorean Triples

A set of three whole numbers where $a^{2}+b^{2}=c^{2}$

Examples;

| $\mathbf{a}$ | $\mathbf{b}$ | $\mathbf{c}$ |
| :---: | :---: | :---: |
| 3 | 4 | 5 |
| 6 | 8 | 10 |
| 5 | 12 | 13 |
| 7 | 24 | 15 |
| 8 | 15 | 17 |

6. Finding a missing side (shorter side)


$$
a^{2}+b^{2}=c^{2}
$$

$$
a^{2}+4^{2}=8^{2}
$$

$$
a^{2}+16=64
$$

$$
a^{2}=64-16
$$

$$
a^{2}=48
$$

$$
a=\sqrt{48}
$$

$$
\text { a = } 6.93 \text { (1d.p.) }
$$

## 8. Proving a triangle is right

 ' angled$$
\text { Is } a^{2}+b^{2} \text { is equal to } c^{2} ?
$$



$$
20^{2}+21^{2} \text { is equal to } 29^{2}
$$

The triangle is right angled.

$5^{2}+10^{2}$ is NOT equal to $15^{2}$
The triangle is NOT right angled.

Year 8 French Summer Aïe, Aïe, Aïe je vais changer mon style de vie!


## Year 8 French Summer Aïe, Aïe, Aïe je vais changer mon style de vie!



## Year 8 French Summer Half Term 6 Vive les vacances!

|  | je vais (1 go) |  | à Berlin en Allemagne (to Berlin in | avec ma famille (with my family) |
| :---: | :---: | :---: | :---: | :---: |
| D'habitude (Usually) | je pars (I go- literally 'I |  | Germany) | avec mon père (with my dad) |
| En général (Generally) <br> Pendant les vacances <br> (During the holidays) | leave') | à Rome en Italie (to Rome in Italy) | à Sydney en Australie (to Sydney in Australia) | avec ma mère (with my mum) |
|  | il/elle va (he/she goes) | à Londres en Angleterre (to London in England) | à Lisbonne au Portugal (to Lisbon in Portugal) | avec mes grands-parents (with my grandparents) |
| Pendant les grandes vacances | il/elle part (he/she goes | à Edimbourg en Écosse (to <br> Edinburgh in Scotland) | à Tokyo au Japon (to Tokyo in Japan) | avec mes copains/copines (with my friends) |
| (During the summer holidays) | on va (we go) <br> on part (we go) | Barcelona in Spain) | à New York aux États-Unis (to New York in the USA) | avec ma classe (with my class) |
| Quelquefois <br> (Sometimes) |  |  |  |  |
|  | je reste (I stay) on reste (we stay) | chez moi (at home) |  | ici (bere) |


| Je loge (I stay) <br> il/elle loge <br> (he/she stays) | dans un hôtel (in a hotel) | dans une tente (in a tent) | au bord de la mer (by the sea) <br> au bord d'un lac <br> (by a lake) <br> à la campagne <br> (in the <br> countryside) | à la montagne (in the mountains) <br> en forêt (in a forest) <br> en ville (in a town) <br> à l'étranger <br> (abroad) |
| :---: | :---: | :---: | :---: | :---: |
|  | dans un camping | dans une maison de vacances (in a holiday home) |  |  |
|  | (at a campsite) | dans une auberge de jeunesse (in |  |  |
|  | dans une caravane (in a caravan) | a youth hostel) |  |  |
| On loge (we stay) | dans un gite (in a rented house) | chez ma famille (at family's house) |  |  |
|  | dans un villa (in a villa) | chez des amis (at friends' house) |  |  |
| Je fais du camping (l go camping) |  | fait du camping (We go camping) |  |  |

Où passes-tu les vacances?

https://quizlet.com/gb/72 7097971/y8-ou-passes-tu-tes-vacances-flash-cards/

[^0]

| es aconsejable... | it is advisable |
| :--- | :--- |
| es esencial... | it is essential |
| es ideal... | it is ideal |
| es importante... | it is important |
| es recommendable... | it is recommendable |
| variado/a | varied |


| Para llevar una vida sana | To have a healthy lifestyle |
| :--- | :--- |
| Voy a ... | I am going to |
| comer/beber más... | eat/drink more... |
| comer/beber menos... | eat/drink less... |
| hacer ejercicio | do exercise |
| comer bien | eat well |
| dormir ocho horas | sleep for 8 hours |
| evitar el estrés | avoid stress |
| mantenerme en forma | stay in shape |
| No voy a... I am not going to <br> fumar smoke <br> drogarme take drugs <br> tomar mucha comida basura have lots of junk food <br> tomar bebidas azucarads have sugary drinks <br> acostarme tarde go to bed late |  |

https://quizlet.com/424597484/claro-2-unit-14-mi-dieta-sana-flash-cards/ https://quizlet.com/424598910/claro-2-unit-15-ay-que-dolor-flash-cards/



- Voy a visitar a mi primo. I am going to visit my cousin.
- Van a escuchar música. They are going to listen to music.


## Gramática

Using future expressions
The following future expressions are all followed by the infinitive:

- Tengo la intención de... I intend to...
- Espero... I hope...
- Quisiera... I would like...
- Me gustaria... I would like...
- Me encantaria... I would love...

Use them with these time phrases:

- En el futuro...

In the future...

- El curso/año que viene...
- Pronto... Next year...
- Pronto Soon
- Dentro de poco... Shortly...

| Year 8 Spanish Ay qué dolor |
| :--- | :--- |
| Me duele(n) My... hurts <br> el brazo arm <br> la cabeza head <br> el codo elbow <br> el cuello neck <br> el dedo finger <br> el dedo de pie toe <br> la espalda back <br> el estómago stomach <br> el hombro shoulder <br> la mano hand <br> la nariz nose <br> el pie foot <br> la pierna leg <br> la rodilla knee <br> los oídos ears <br> los ojos eyes <br> el tobillo ankle |

## iArriba, arriba!

Add detail by using desde hace to explain
how long you have been in pain:

- Me duele la mano desde hace dos dias. My hand has been hurting for two days.
You can use this structure in other scenarios:
- Vivo en Madrid desde hace un mes. I have been living in Madrid for a month.

[^1]| Aa Gramática p.23; WB p. 13 |  |
| :---: | :---: |
| Doler in the present tense |  |
| The verb doler ('to hurt') | rks like gustar. |
| me duele | it hurts me |
| te duele | it hurts you |
| le duele | it hurts him/her |
| - me duele la cabeza <br> - le duele la espalda <br> - te duelen las piernas | my head hurts his/her back hurts your legs hurt |


| Tengo... | I have... |
| :--- | :--- |
| un brazo roto | a broken arm |
| gripe | flu |
| una picadura | a bite |
| una pierna rota | a broken leg |
| una quemadura de sol | a sunburn |
| tos | a cough |
| vómitos | sickness (vomiting) |
| Estoy... | I am... |
| Cansado/a | tired |
| mal | bad/ill |
| mareado/a | dizzy |



| tengo... | I have... |
| :--- | :--- |
| un brazo roto | a broken arm |
| gripe | flu |
| una picadura | a bite |
| una pierna rota | a broken leg |
| una quemadura de sol sunburn |  |
| tos |  |
| vómitos | a cough |
| sickness (vomiting) |  |
| estoy... | lam... |
| cansado/a | tired |
| mal | ill |
| mareado/a | dizzy |
| la crema | cream |
| el jarabe | cough syrup |
| la leche con miel | milk with honey |
| las medicinas | medicines |
| las pastillas | tablets, pills |
| la tirita | plaster |
| el zumo de limón | lemon juice |




## A. Key Words and Terms in Samba Music

CALL AND RESPONSE - one person plays or sings a musical phrase, then another person/group responds with a different phrase or copies the first one.
CYCLIC RHYTHM - a rhythm that is repeated over and over again.
IMPROVISATION - making up music as you go along, without preparation.
OSTINATO - a repeated pattern. Can be rhythmic or melodic; usually short.
PERCUSSION - Instruments that are mostly hit, scraped or shaken to produce sound. Samba uses many percussion instruments which together are called a BATERIA.
POLYRHYTHM - the use of several rhythms performed simultaneously, often overlapping each other to create a thick texture.
PULSE - a regular beat that is felt throughout music
RHYTHM - a series of notes of different lengths that create a pattern. Usually fits with a regular beat or pulse.
SYNCOPATION - accenting or emphasising the weaker beats of the bar (often a half beat (quaver) followed by a full beat (crotchet)) giving the rhythm an OFFBEAT feel.
SAMBISTA - the leader of a Samba band or ensemble, often signalling cues to the rest of the band of when to change sections within the music with an APITO (Samba whistle)

## B. Form and Structure of Samba

Samba music often starts with an INTRODUCTION often featuring CALL AND RESPONSE RHYTHMS between the Samba Leader and ensemble. The main Ostinato rhythm of Samba is called the GROOVE when all the instruments of the Samba Band play their respective rhythms over and over again (CYCLIC RHYTHMS) forming the main body of the piece. The GROOVE is broken up by BREAKS - 4 or 8 beat rhythms providing contrast and MID SECTIONS - one or two instruments change the rhythm of their ostinato and the others stay the same or stop. Sometimes BREAKS and MID SECTIONS feature a SOLOIST who "shows off" their rhythms. The SAMBISTA must signal to the group when to change to a different section which is normally done with an APITO (Samba Whistle - loud!). A piece of Samba can end (this section is called the CODA) with either a CALL AND RESPONSE pattern or a pre-rehearsed ending phrase of rhythm. The FORM AND STRUCTURE of a piece of Samba may look like the following:

© WWW.MUSICALCONTEXTS.CO.UK

## CARLATIONE

## A. Theme and Variations Key Words

MELODY - A tune or succession of notes, varying in pitch, that have an organised and recognizable shape. Often called the main TUNE or THEME of a piece of music or song and easily remembered.
VARIATION - Where a THEME is altered or changed musically, while retaining some of the primary elements, notes and structure of the original. VARIATION FORM:
$\qquad$

Exploring ways to develop
musical ideas


## B. Augmentation and Diminution - Note Values and Duration

## AUGMENTATION - the

 process of DOUBLING the note values (DURATION) of a theme as a means of variation.

DIMINUTION - the process of HALVING the note values (DURATION) of a theme as a means of variation.


## ion Techniques

|  |  |  |  |  | C. Var |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PITCH - <br> Change the highness or lowness of the themeplay the same notes, but at different pitches e.g. in different octaves. | TEMPO <br> Change the speed of the theme - play it <br> faster or slower. | DYNAMICS - Change the volume of the theme play it louder or softer. | TEXTURE-Change the amount of sound we hear - play as a SOLO, add an ACCOMPANIMENT or CHORDS, add a COUNTERMELODY (an 'extra' melody that is played or sung at the same time as the main melody, often higher in pitch and sometimes called a DESCANT). | TIMBRE <br> AND <br> SONORITY- <br> Change the SOUND of the theme <br> - play it on <br> a different instrument. | ARTICULATION <br> - Change the way the theme is played smoothly (LEGATO shown by a SLUR) or short, detached and spiky <br> (STACCATO shown by a dot). |



## E. Inversion and Retrograde

## D. Tonality - Major and Minor

TONALITY refers to whether a THEME or MELODY is in a MAJOR or MINOR key. Changing the tonality from major to minor or minor to major is one way of providing a variation on the theme of melody. Major and minor scales follow a certain pattern of tones and semitones:

INVERSION - Changing
the INTERVALS
between the notes of a
theme so that they are
upside down from the
original.
RETROGRADE - A
variation technique
created by arranging
the main theme backwards.
RETROGRADE INVERSION - Arranging the
"inverted" variation of the theme backwards!

## 1.Track

Sprint $-100 \mathrm{~m}, 200 \mathrm{~m}$ and 400 m . The aim is to finish in the quickest time. 100 m is a straight run. 200 m includes a bend and you have a staggered start. 400 m is one full lap of an official sized track and you have a staggered start. For all sprints you MUST stay in your lane. Sprinting technique - Keep your body straight and your head still. Keep the shoulders low and relaxed. Run tall with high hips and knees. Drive the elbows back hard. Drive the knees forward. Cycle the foot quickly under your body. Drive the foot down to the ground and pick it up fast. In the 200 m and the 400 m allow your body to naturally lean in to the curve.
Sprint crouch start
'ON YOUR MARKS’ - Place your hands slightly wider than shoulder width apart, behind the line. Elbows straight but not locked. Form a bridge with your hands. Place the knee of the back foot level or just in front of the toe of the front foot. Place the toe of the front foot 3050 cm back from the line. To mark it out - make an ' L ' make a ' $T$ ' and place the knee in line with the heel.
'SET' - Shoulders should be above or slightly ahead of the hands. Raise your hips slightly higher than the shoulders. Bend the legs - front leg about 90 degrees, rear leg about 120 degrees. Keep still.
'GO' - Drive the rear knee forward, keep low. Bring the foot quickly down to commence the second stride. Drive the arms hard in opposition to the legs. Fully extend your driving leg and hip, knee and ankle.
Distance Running - Middle 800 m and $1,500 \mathrm{~m}$
Long distance -3000 m 5000 m and $10,000 \mathrm{~m}$
Running technique - Swing your arms in a balanced, relaxed and symmetrical manner. Run with rhythm and relaxation. Run with hips high. Look ahead, keeping your head aligned with your body.

## 2.Field

Jumping - Long jump, triple jump, high jump, pole vault. The aim is to jump as high or far as possible.
Long Jump - The toe of the jumper's shoe, must be behind the leading edge of the take-off board. Long jumpers are measured from the forward edge of the take-off board made by any part of the body of the jumper. Take-Off - Sprint as fast as you can towards the marker. Keep your hips high at take-off. Fully extend hips, knee and ankle. Keep your body upright. Drive the free knee up and forwards. Drive the take-off foot down and back.
Flight - Bring arms above head. Keep body upright. Hold the thigh parallel to the ground during flight.
Landing - Arms reach for toes just before landing. Reach legs out in front at landing. Bring legs forward and together. Land with heels first, bend knees to absorb momentum. Collapse body forward or sideways.
Triple jump- Use a Hop, a step and a Jump. The triple jump has 5 phases Approach, hop, step, jump and landing. Throughout the jump keep the head and hips high, and your body upright. Aim for an active flat foot landing. Feel a fast bouncing action. Keep an even rhythm throughout each jump phases. High Jump - The objective of the high jump is to clear a bar supported on uprights having taken off from one leg. Aim to achieve maximum height at take-off.
Technique - Scissor jump - Progress to Fosbury flop.
A jumper taking off from their left leg should approach from the right. A jumper taking off from their right foot should approach from the left.
Scissors - Approach - run in an angle of 30 degrees as fast as you can towards the bar.
Take-off - Drive the leg closest to the bar up and over the bar, keep it bent
Keep the head and upper body upright. Fully extend the take-off leg at the hip, knee and ankle.
Landing - Take-off leg follows to complete the jump.

## 6. Glossary

Take-off Landing Approach Putt Reaction Speed Fosbury Flop Drive Vortex Balance Co-ordination Baton Hurdles Sprint Endurance Steeplechase Relay Change-over Power Hurdles Rotation Discus Javelin Shot Glide Stride Posture Pictures


## 3. Where we compete



Athletes compete on a standard 400 m Tarten track. Athletes sometimes compete on the road or cross country.

The events are broken up to categories.
Track: Running
Field: Jumping and throwing.

## 4. Key muscles and bones



## Quadriceps - Legs

Gastrocnemius -Legs
Hamstrings - Hamstring
Biceps - Arms
Triceps-Arms

| Speed |
| :---: |
| Acceleration |
| Hurdles |
| Reaction Time |
| Track |
| Field |
| Endurance |
| Power |

Breath naturally, keeping your shoulders relaxed. Keep your shoulders and hips as relaxed as possible. Pick the heel up and swing the knee forward.
Start - Standing start is used. Foot up to the line. Start in a lane but then cut in (move) to the inside lane (lane 1) after the first bend.

## Relay

$4 \times 100 \mathrm{~m}-4$ runners, who each run 100 m
$4 \times 400 \mathrm{~m}-4$ runners, who each run 400 m
Runner 1 starts with the baton who runs to runner 2 where the baton is exchanged, who runs to runner 3 ad exchanges the baton, who runs to runner 4 and exchanges the baton, who finishes the race. The passing of the baton is called the changeover'. If you drop the baton or move out of your lane at any point during the race your team is disqualified. You must complete the changeover in the changeover box.
How to pass the baton

1. Up-Sweep - the incoming runner passes the baton up into the outgoing runner's hand.
2. Down-Sweep - receiving arm extended, but the hand level is just above hip height. Hand is almost like a ' $V$ ', and the baton is ready for landing between the thumb and first finger.
3. Push Pass - The arm is extended out parallel to the ground and the hand is open with the thumb pointing down
Change over - If the first runner has the baton in their right hand, they must stay on the inside of the lane at the exchange. $2^{\text {nd }}$ runner takes the baton on the left hand and stays on the outside for the exchange. The $3^{\text {rd }}$ runner takes the baton on the right hand. Runner 4 takes the baton on the left hand and stays on the outside of the lane when receiving. You are allowed to switch hands after receiving the baton.

Fosbury Flop - Approach - use a J shaped run up as fast as you can. Run tall with the trunk upright. Take-off - drive the inside knee upwards - keep it high after take-off. Drive vertically at take-off. At take-off extend fully at hip, knee and ankle. Landing - Push hips upwards to 'arch' over the bar. Lift the legs clear of the bar and land safely with the mid-upper back touching down first. Clearance should occur over the middle of the bar.
Throwing - Shot, discus, javelin and hammer. The objective is to throw each implement as far as possible.
Grip - clean palm dirty neck - Rest the shot at the base of the first 3 fingers of your throwing hand. Hold the shot under the chin, against the neck with the elbow raised. Keep the wrist firm. Keep the throwing elbow high throughout the movement. Turn the shoulders away from the direction of the throw. Split stance. Front foots heel should be in line with the back foots heal. Both legs bent with the weight on the ball of the front foot. Drive the hips forwards and upwards before release. Throwing arm pushes long and high after a full extension of the legs and trunk.
Javelin - Standing throw (see pictures) - Hold the javelin back with an extended arm and palm high. Extend the right leg at the knee and ankle to drive the hip forward over a straightened left leg. After the hip drive pull the javelin through with the elbow close to the ear. Opposite foot forward (left foot forward for right handed thrower). Stand with feet shoulder width apart, the left foot pointing forward. Discus - Standing throw - Grip - Rest the discus across the finger pads, spread fingers. Preparation - Swing the discus back behind the right hip and behind the right leg. The toe on the left foot is in line with the heel of the right. Stand side on to the direction of the throw, with feet just over shoulder width apart. Keep the weight over the rear leg as long as possible. Release - keep the hand on top of the discus. Keep the arm long and relaxed. After the hip drive pull the arm through fast and last. Lead with the thumb, drive the hips forward.


## Year 8 PE: Cricket

## 1.Key Words

Run Out - When a batsmen is attempting a run but does no $\dagger$ get into their crease before the wickets are hit.

Beamer - A bowler deliberately bowling the ball at the batsmans head_with out it bouncing

## 2. Umpire Signals


NO-BALL FOUR YR OUT! WIDE $\quad$ SIXER!
3. Muscles Used In Cricket
Pectorals Tricep


## 4. Basic Rules

1. 11 a side
2.6 balls in an over, must bowl over arm
2. Can be out by being bowled, caught, run
out, LBW or stumped
3. Most runs wins
4. To be caught out the ball cannot hit the
floor
5. To be out LBW the ball must be hitting the wickets when it hits the leg first
6. You must bowl from behind the bowling crease
7. At the end of each over you bowl from the opposite end.

## 7. Components of Fitness

Speed - You need sped to run between the wickets and to chase a ball when fielding

Agilty - To dive and catch the ball or stop it going past you when fielding



Shift weight onto
Back foot


Prepare bat to strike ball horizontally



## 8.Fielding Positions



1. Match: A match usually consists of two innings. Both teams bat and field twice, the winning team is the one with the most rounders at the end of the game. An innings can consist of a set number of good bowls or until the fielding team have fielded all the batting team out.

## 2. Pitch layout:

## YEAR 8 PE: ROUNDERS

## 5. A batter is out when:

- The post a batter is running to is stumped.
- The batter is caught out.
- A batter overtakes another batter on the track.
- A batter deliberately drops or throws their bat.
- The batter misses or hits the ball and their foot is over the front or back line of the batting square. - A batter runs inside the posts (unless obstructed).


The rounders pitch is rectangular in shape with areas marked out for the batter and bowler to stand.
There are four posts which batters must run around to score a rounder.
3. Scoring: A rounder is scored by the batting team when a player hits the ball and runs around all 4 posts. A half rounder is scored if the batter hits the ball and runs to the second post. A half rounder can also be scored if the batter does not hit the ball but runs around all four posts.
6. Skills/ techniques (technical \& tactical):

BATTING - A skill which allows the bat to contact the ball.
THROWING - A technique to field the ball to the correct position at the correct pace and direction (over-arm \& under-arm).

BOWLING - A technique to deliver the ball in the correct position for the batter to hit.

4. Rules: Rounders games are played between two teams. Each team has a maximum of 15 players and a minimum of 6 players. No more than 9 players may be on the field at any one time. One team bats while the other team fields and bowls. The bowler bowls the ball to the batter who hits the ball forward on the Rounders Pitch. The batter then runs to as many posts as possible before the fielders return the ball to touch the post the batter is heading for. If the batter reaches the 2 nd or 3 rd post in one hit, the batting team scores $1 / 2$ a Rounder. If the batter reaches 4 th post in one hit, the batting team scores a Rounder. Games are usually played over 2 innings with the aim of the game to score the most Rounders.

7. Bones:
8. Muscles:


## 9. Components of fitness:



CO-ORDINATION - The ability to use different (two or more) parts of the body together smoothly and efficiently

REACTION TIME - The time taken to initiate a response to a stimulus
AGILITY - The ability to move/ change direction quickly (at speed) whilst maintaining control

Rules of the game:

1. Aim is to strike the ball with the racket so it lands over the net within the boundaries of your opponents side
2. Ball can only be hit once
3. Serve underarm by bouncing the ball on the floor before striking
4. Let the ball bounce before you strike the ball
5. If the ball hits the net (and doesn't go over), or lands outside of the court marking this is a foul
6. Players cannot make contact with the net
7. You will use the dimensions of the court shown within the highlighted area in the image on the right


## What components of fitness are used in tennis?

| Fitness Component | Why is it important? |
| :--- | :--- |
| Muscular endurance | So that the muscles contract for long <br> periods of time so that the player can keep <br> moving and striking the ball for the whole <br> game |
| Reaction time | To quickly respond and move to a ball that <br> has been dropped to a place away from <br> where the performer is standing |
| Agility | To quickly change direction to move to an <br> area of the court where the ball has landed |

## Serve:

1. Stand behind the back line
2. The toss: throw the ball straight up above the height at which you can reach up with your arm
3. With that bring your racket arm up in the swing
4. Make contact with the ball at the highest point
5. Follow through for more power


## Role Model

Tennis is accessible to those with disabilities with adapted wheelchairs in order to move around the court.

Esther Vergeer is the most decorated wheelchair tennis player with 7 Paralympic titles and 48 grandslams!

Tennis has wiped away stereotypes for disabled athletes.


Volley:
A shot which involves hitting the ball out of the air before it bounces.

Usually used when you have approached the net and are near the front of the court.

1. Ensure you are in the ready position with racket raised
2. This makes it quicker to move the racket into the line of the strike you need to return
3. Ensure the face of your racket is facing the area in which you want your strike to go
4. Allow the ball to hit your racket rather than you swing at the ball for a more accurate shot.


## Ethics of the game

Gamesmanship: bending the rules to gain an advantage over an opponent.

- Maintain pace of the game at all times - no time wasting!
- Ensure that you are not making exaggerated noises when you are striking the ball.


## Moving the ball around the court.

In order to score points, it is vital than you strike the ball so it lands in different areas of the court.

Look up to where your opponent in stood on the court.

Ask yourself, where is the space? Ensure that you are aiming to strike the ball into areas both on the left, right, front and back of the court.

Move your body to the side of the ball quickly and ensure your body and the racket is facing in the direction you want to hit the ball. Then strike the ball to this area.

In the image on the right, if the opponent is stood at the target, where could you place the ball? Where would you go next if they returned the shot?


Somatotypes: What body type is most suited to tennis? Why?



[^2]

| 14. Prayer Mats <br> Prayer Mats are used to <br> give a clean and holy <br> space in which to Pray. <br> They are often elaborately <br> decorated with images of <br> Mosques, but never living <br> things or God as this is <br> forbidden in Islam. They will <br> always have one small <br> imperfection in them. <br> 14. Mina and Arafat These are two important <br> features of Hajj. Mina is a valley where pilgrims <br> stay in tents during Hajj. Mount Arafat is a <br> small mountain where the Prophet <br> Muhammad delivered his final sermon. On the <br> second day of Hajj pilgrims make their way <br> there and pray until sunset and it is considered <br> the most holy day of Hajj. <br> 14. The Prophet Muhammad Muhammad was <br> born in Mecca in 570AD and was an orphan. He <br> left Mecca to live a life of meditation, where he <br> received a revelation from Allah; the Qur'an. <br> He then spent his life spreading the message <br> that Allah had given him and the Muslim faith <br> quickly spread. |
| :--- |




16. Khalsa Sikhs wear five symbols - called the five Ks, or Panj Kakka - to show their devotion to Sikhism. The boys outline the 5 Ks and what they signify. They are Kara, Kachera, Kirpan, Khalsa, Kesh and Kanga

| 17. The Guru Granth Sahib is not just the holy <br> scripture of Sikhism. It is also considered as the <br> living Guru. Before Guru Gobind Singh died, he <br> declared that there would be no more human <br> Gurus and that the Guru Granth Sahib would be <br> the Eternal Guru. |  |
| :--- | :--- |
| 19, Sikhs celebrate the birth of a child through a <br> naming ceremony called Naam Karan. This is a <br> special ceremony that happens at the gurdwara <br> around two weeks after the birth of the child. The <br> Mool Mantar is said to thank God for the precious <br> gift of life. 18.The Golden temple is <br> located in the holy city of the <br> Sikhs, Amritsar. The Golden <br> temple is famous for its full <br> golden dome, it is one of the <br> most sacred pilgrim spots for <br> Sikhs. The Mandir is built on a <br> $67-f t ~ s q u a r e ~ o f ~ m a r b l e ~$ |  |


|  <br>  <br>  <br>  |  <br>  <br>  ¿ รวכ! |
| :---: | :---: |
| >!! $!$ DD <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  |  |
|  | łиәயиәғцচ!!\|иə <br>  <br>  <br>  stl *us!npu! $\ddagger$ fo łoousłfo un s! ws!uppng 'zz |
|  |  |
|  | St! |
|  |  |
|  |  |
|  |  |
|  |  |

You should be aiming for these skills on every assessment page

| You should be aiming for these skills on every assessment page |  |  |
| :---: | :---: | :---: |
|  | S | Show Knowledge and understanding of facts/ information/ points of view through detailed explanations and development |
|  | 1 | Influence on actions or belief |
|  | L | Lots of Language that is topic specialist and/ or religious in nature |
|  | S | Sources of wisdom/ authority that explain or support |
|  |  |  |
|  | P | Points of view and alternative reasons |
|  | A | Analysis (detailed explanation of features and key points of arguments) |
|  | G | Good Judgements made on what the answer to the question is |
|  | E | Evaluation of which points are more convincing |

## $B 2$ <br> Chapter 4: Inheritance

## Knowledge organiser

## Variation

Variation is the difference in characteristics of individuals of the same species. Variation can be:

- Inherited - passed on from parents to offspring by genes e.g., eye colour.
- Environmental - caused by the surroundings and what has happened to you in your life e.g., getting a tattoo.


Many characteristics are affected by both inherited and environmental variation. For example, somebody may inherit the characteristic to be tall from a biological parent, but if they eat a poor diet their rate of growth may be reduced.

Displaying data

- Discontinuous variation - Fixed number of values Discontinuous variation - Fixed number of values
e.glood group. Display data in tables, pie charts, and bar charts.

- Continuous variation - Any value within a range e.g., height. Display data in tables, scatter graphs, histograms, and bar charts.


Make sure you learn the definitions for these key terms:


## Knowledge organiser



## State symbols

- Symbol equations have letters in brackets after each substance.
- These tell you the state of matter of each substance, and are called state symbols:
$(\mathrm{s})=$ solid, ( l$)=$ liquid, $(\mathrm{g})=\mathrm{gas},($ aq) $=$ dissolved in water For example, $\mathrm{H}_{2} \mathrm{O}(\mathrm{s})$ is ice, $\mathrm{H}_{2} \mathrm{O}(\mathrm{l})$ is water, $\mathrm{H}_{2} \mathrm{O}(\mathrm{g})$ is steam, and NaCl (aq) is sodium chloride (table salt) dissolved in water. water, acids, or alkalis.

The three main acids are hydrochloric acid, sulfuric acid, and nitric acid. Metals can react with all of these acids to produce a salt and hydrogen gas. copper + hydrochloric acid $\rightarrow$ copper chloride + hydrogen iron + sulfuric acid $\rightarrow$ iron sulfate + hydrogen
magnesium + nitric acid $\rightarrow$ magnesium nitrate + hydrogen

## Testing for hydrogen gas

The gas produced when reacting a metal and a salt can be collected in an upturned test tube, and a test performed to check that the gas is hydrogen. Insert a lit splint into the upturned test tube - if the gas is hydrogen, there will be a 'pop' sound.

## Metals and oxygen

- Many metals will react with oxygen from the air to produce a metal oxide.
- Often, they will need to be heated before they can react.

| Metal | Reaction with oxygen |
| :--- | :--- |
| magnesium | burns vigorously |
| zinc | burns less vigorously |
| iron | burns |
| lead | do not burn; when heated, form layer |
| of oxide on surface |  |$|$| copper | no reaction |
| :--- | :--- |
| gold |  |

## Metal displacement reactions

- A displacement reaction occurs when a more reactive element takes the place of a less reactive element in a compound. In metals, this means that the more reactive metal will become a compound, and the less reactive one an element.
For example, iron is more reactive than copper so:

$$
\text { copper sulfate }+ \text { iron } \rightarrow \text { copper }+ \text { iron sulfate }
$$

The iron has displaced the copper from its compound. The solution changes from blue to pale green and the metal changes from grey to rose coloured, indicating that a chemical reaction has happened.

## The reactivity series

most reactive
potassium
sodium
lithium
calcium
magnesium
aluminium
zinc
iron
lead
copper
silver
gold
least reactive

## Materials

A ceramic is a hard, brittle material that is made by firing a material, such as clay, at a high temperature. Ceramics also have similar chemical properties to each other. They do not react with

A polymer is a substance with very long molecules. There are many polymers. Different polymers have different properties. Their properties make them suitable for their uses. Natural polymers include wool and rubber. Synthetic polymers include polyester and nylon.
A composite is a mixture of materials. Each material has different properties. The composite has properties that are a combination of the properties of the materials that are in it.

## Metal extraction

Only very unreactive metals like gold and platinum are found as their metals themselves in nature. Most metals are found in compounds called minerals. Chemical reactions can be used to extract the metal element from its compound. Minerals that have enough metal in them to make it financially worthwhile to extract the metal are called ores.

Make sure you can write definitions for these key terms.
acid ceramic composite displacementreaction hydrogen material metal polymer reaction reactivity reactivityseries salt statesymbol

## $C 2$ <br> Chapter 4: The Earth

## Knowledge organiser




## Climate change

Greenhouse gases like carbon dioxide trap energy in the Earth's atmosphere. Humans are adding more of these gases and this is causing global heating. This causes:

- melting of glaciers and polar ice
- changes to local weather patterns.

Long-term changes to weather patterns are called
climate change. Climate change has led to the extinction of some plant and animal species. Climate change makes it harder for people to grow food.

## Recycling

Earth's resources are limited and come from the ocean, crust or atmosphere. To make sure there are enough resources to live our lives as we wish we can:

- Reuse: you or someone else uses an object again, either for its original purpose or for a different purpose.
- Recycle: collecting and processing used objects so that their materials can be used again.

Types of rock
There are three types of rock that make up the Earth's crust. These are formed by different processes in the rock cycle, and have different


| Type of rock | How it is formed | Properties | Uses |
| :---: | :---: | :---: | :---: |
| sedimentary rock | - sediment piles up in one place and over many years stick together by compaction or cementation <br> - compaction: weight of sediments above squeeze them into rocks <br> - cementation: another substance sticks the sediments together | - porous: made of small grains stuck together so there are holes that water can pass through <br> - soft: easy to break apart the sediments | building materials (e.g., sandstone and limestone) |

- Durable and hard
(difficult to damage): the crystals are locked tightly together
- Not porous: there is
no space between
crystals
$\begin{array}{ll}\text { - Not porous: there is } & \text { marble used for kitchens } \\ \text { no space between } & \begin{array}{l}\text { slate used for roofing } \\ \text { crystals }\end{array} \\ \text { tiles }\end{array}$

Make sure you can write definitions for these key terms.
 metamorphicrock outercore porous recycle resource reuse rockcycle sedimentaryrock

## P2 Chapter 3: Motion and pressure

## Knowledge organiser

Speed
Speed is how far something moves in a certain time.

$$
\text { speed }(\mathrm{m} / \mathrm{s})=\frac{\text { distance travelled }(\mathrm{m})}{\text { time taken }(\mathrm{s})}
$$

- Speed is measured in metres per second $(\mathrm{m} / \mathrm{s})$.
- Convert distances to metres and times to seconds to calculate the answer.
Relative motion
- Compares how fast one object is moving to another.
- If two objects are moving at the same speed in the same direction then
their relative speed is zero.


## Motion graphs

Distance-time graph
These graphs show the distance something travels over a certain time.


To calculate the average speed from a distance-time graph you find the distance covered, and divide it by the time taken.

## Pressure in solids

- Pressure is the force exerted on a surface because of weight, and is measured in newtons per metre squared or Pascal (Pa). Where $1 \mathrm{~N} / \mathrm{m}^{2}=1 \mathrm{~Pa}$.
- For small areas you can use centimetres instead
- Pressure explains why studded boots help you grip grass, or why snowshoes help you walk in snow.

$$
\text { pressure }\left(\mathrm{N} / \mathrm{m}^{2}\right)=\frac{\text { force }(\mathrm{N})}{\operatorname{area}\left(\mathrm{m}^{2}\right)}
$$

## Pressure in gases



Atmospheric pressure is the pressure acting on us from the air around us.

- The higher above sea level the lower the atmosphere pressure.
- This is because the air is less dense the higher you go above sea level, so there are fewer collisions between air particles.



## Pressure in liquids

- Solids and liquids are incompressible, because all the particles are touching already. This means they pass pressure on.
- The pressure at the bottom of a liquid is bigger than at the top, because the weight of the water pushing down increases with depth.


## Turning forces

## - Moments are the turning effect of a force

- The unit for the moment is newton metres ( $\mathbf{N m}$ )
moment $(\mathrm{Nm})=$ force $(\mathrm{N}) \times$ perpendicular distance from the pivot $(\mathrm{m})$
- To calculate the moment you multiply the force applied by the distance from the pivot.
- The bigger the force, or the further the distance, the bigger the moment


## The law of moments

When the forces are balanced, all the clockwise moments added together must equal all of the anticlockwise moments added together.

clockwise moment $=$ force $\times$ distance on the right
$=1000 \mathrm{~N} \times 0.5 \mathrm{~m}$
$=500 \mathrm{Nm}$
$\left.\begin{array}{c}\text { anticlockwise moment }=\text { force } \times \text { distance on the left } \\ =500 \mathrm{~N} \times 1 \mathrm{~m}\end{array}\right)$

$$
=500 \mathrm{Nm}
$$

The moments in the example above are the same. This is how see-saws balance. All the weight of an object seems to act through a point called the centre of gravity (or centre of mass). If the centre of gravity is above the pivot there is no turning force.


Make sure you can write definitions for these key terms
 newtons per metre square pressure pivot speed


[^0]:    6. Grammaire

    Saying 'in' for countries and cities
    Saying 'in' for countries and cities In Unit 1 you met en, au or aux to say in' a country. Je vais en vacances en France
    However, to say 'in' a city, you need to use a:
    Cette annee je vais en vacances a Paris.

[^1]:    https://quizlet.com/424600923/claro-2-unit-16-ponte-esta-crema-flash-cards/

[^2]:    Features of a Mosque
    12. Minbar The Imam delivers his sermon from here
    13. Wudhu Room A wash room for ritual cleansing so Muslims
    can prepare for prayer
    14. Minaret A tower where the 'call to pray' is sent from
    15. Shoe Rack This helps keep the Mosque clean as a sign of
    respect to Allah
    16. Dome This keeps the Mosque cool and is a form of decoration and represents Heaven
    17. Mihrab A niche in the wall that shows the direction of Mecca

