

# Year 9 Knowledge Organiser Term 1

2024

# Knowledge Organiser - Contents

TERM 1	1
Art	.2
Computing	.4
Cooking & Nutrition	.9
Drama	11
Design Technology	13
English	15
Geography	17
History	19
Maths	22
Music	28
PE	30
RE	31
Science	33
Spanish	39
Textiles	43
Literacy Knowledge Organiser	45

# Term 1

# **ANDY WARHOL** 1928 - 1987



# American Artist

Andy Warhol was the leading artist of pop art, obsessed with celebrity, consumer culture and mechanical reproduction and silk-screen printing.

He stated: ""Art is what you can get away with" and "everyone will be famous for 15 minutes".

He was known as a social radical and creative melting pot. Warhol was a Ruthenian Catholic and volunteered at homeless shelters in New York City.

Warhol's brother described the artist as "really religious, but he didn't want people to know about that because it was private".

### Self Quiz:

- 1. What are the characteristics of Pop-Art?
- 2. What were the common subjects of Pop artists?

Aspiration Creativity Character

### Periods

### Influences

Marcel Duchamp, Truman Capote, Jasper Johns, Tom of Finland, Ben Shan, Jack Smith.

### Famous Works

- Campbell's Soup Cans (1962)
- Triple Elvis (1963)
- Shot Marylins (1964))

Contemporary, Pop Art, Consumerism

- Green Coca Cola Bottles (1962)
- Prince (1984)
- Race Riot (1964)

The Pop Art movement began in the early 1960's as a way to appeal to the masses. Pop artists believed that art had become too individualized and hard to understand, so they used common everyday objects that people would easily recognize. In Pop Art we see subject matter taken right from American popular culture like soup cans, celebrities, hamburgers, and coke bottles.

The movement forced people to notice the

beauty of the ordinary things around them that they tended to take for granted. Images were often large and with shiny bold colors that were impossible to ignore.



Roy Lichtenstein was a well-known Pop artist who created blown up images from old comic books. Originally trained as a commercial artist, Lichtenstein's paintings mimicked techniques and processes used in the mass production of prints. His paintings are composed of bold outlines, lots of primary colors, and millions of Benday dots. (Benday dots are named for an American printer named Benjamin Day. Benday

dots are in all printed images, but are usually too small to be seen by the naked eye.)



Stylistically pop art can be defined as:

- Simple, crisp lines
- Oversized images or objects
- Often reflects and copies the styles seen in the media
- Collages of popular images
- Bright Colors
  - Some work re-creates the same subject in several pieces or within the same piece
  - Subjects are often easily recognizable and reflect
  - popular items, people or ideas from American Culture: Food
  - Brand Names and products
    - Iconic Figures
  - Common, everyday household items Current events



### Practical application of art history:

- Using the grid method accurately 1. re-create the artwork by A.Warhol and R.Lichtenstein.
- 2. Create a drawing of objects(water bottle, planner, books, chairs, etc.) or people around you using Benday dots and black lines only (in the style of Lichtenstein)..
- 3. Can you create a portrait in the style of A.Warhol (use colour, e.g. green and red pens, felt tips, marker pens)?
- 4. Write in full sentences WWW and EBI.



example also show Lichtenstein printing to give the illusion of block outlines. further apart gives the illusion of dot dots closer benday mass-pro signature simple yet bold the the for colour. Layering of used dn close ( technique This **Fhis** 

# EMORY DOUGLAS

Born 1943





### Self Quiz:

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- . What are the main characteristics of Pop-Art?
- 2. What were the common subjects of Pop artists?
- B. How is the artwork of Emory Douglas similar? Stylistically?

As the art director, designer, and main illustrator for *The Black Panther*, Douglas created images that became icons, representing black American struggles during the 1960s and 1970s.

He developed the iconic images that branded the Black Panther Party, a group organising social programmes and challenging police brutality. Douglas created graphics including imagery based on the Party's 10-Point program, including things such as social services and decent housing for black Americans.

He continues to create work today focusing on children and education.

"After a while it flashed on me that you have to draw in a way that even a child can understand [in order] to reach your broadest audience without losing the substance or insight of what is represented."



This close up of the **benday dot** detail—a technique used for mass-produced printing to give the illusion of block colour. Layering the dots closer or further apart gives the illusion of shading. This example also show Lichtenstein's signature simple yet bold outlines.



The Pop Art movement began in the early 1960s as a way to create 'Art for all'. Pop artists believed that art had become too hard to understand, so they used common everyday objects that people would easily recognise. In Pop Art we see subject matter taken right from American popular culture like soup cans. celebrities and coke bottles.

The movement forced people to notice the beauty of the ordinary things around them that they tended to take for granted. Images were often large and used bold colours that were impossible to ignore.



Roy Lichtenstein was a well-known Pop artist who created blown up images from old comic books. Originally trained as a commercial artist, Lichtenstein's paintings mimicked techniques and processes used in the mass production of prints. His paintings composed of bold outlines, lots of primary colours and millions of Benday dots. (Benday dots are named after an American printer named Benjamin Day). Benday dots in in all printed images, but are usually too small to be seen by the naked eye). Other artists like Andy Warhol focused on screen printing and mass producing images of celebrities like Marilyn Monroe.

### Stylistically Pop Art can be defined as:

- ★ Simple, crisp lines
- ★ Oversized images or objects
- ★ Often reflects and copies the styles seen in the media
- ★ Collages of popular images
- ★ Bright Colours
- ★ Repetition of the same subject in several pieces or in the same artwork
- ★ Subjects are easily recognisable and reflect popular items, brands or ideas from popular culture such as: food, brand names, celebrities, everyday household items, current events, news stories

### Practical application of art history:

- Using the grid method accurately re-create the artworks by E. Douglas, A.Warhol and R.Lichtenstein.
- Create a drawing of objects (water bottle, planner, books, chairs, etc.) or people around you using Benday dots and black lines only (in the style of Lichtenstein).
- Can you create a portrait in the style of E. Douglas (bright background and a pencil portrait)?
- 4. Write in full sentences WWW and EBI.

# **1.1 SYSTEMS ARCHITECTURE**

### **KEY CONCEPTS**

- Computer systems take data (input), process it and then output it.
- Embedded systems are computers built in to other devices like washing machines. They are dedicated to a single task so they are efficient.
- Clock speed: the number of instructions a processor can carry out per/second. Higher clock speed = faster CPU.
- Number of Cores: The more cores a CPU has the more instructions it can carry out at once (multitasking). More cores = faster processing.
- Cache size: A larger cache gives the CPU faster access to more data

### FETCH - DECODE - EXECUTE CYCLE

Fetch

Decode

CPU fetches instruction from the RAM (Copies memory address to MAR, copies Instruction to MDR & adds 1 to PC. CU decodes the instruction from the MDR Instruction is executed by the CU The next instructions is fetched and The cycle repeats.



- Explain how cache size, cores and clock speed affect the performance of the CPU.
- 2. Define what is meant by an embedded system
- 3. What is the purpose of the ALU?
- 4. Explain the role of the CPU registers (MAR and MDR)

5. Explain how the fetch decode execute cycle works

### THE CENTRAL PROCESSING UNIT (CPU)



Control Unit (CU): executes instructions and controls the flow of data in the CPU.

Program counter: holds the memory address for the instruction of each cycle.

Arithmetic Logic Unit (ALU): does all of the calculations and logic operations.

Accumulator: holds the result of any calculations in the ALU.

Cache: very fast memory that stores regularly used data so that the CPU can access it quickly.

MAR (Memory Address Register): holds the address about to be used by the CPU.

MDR (Memory Data Register): holds the actual data or instruction being processed by the CPU.

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5

# 1.2 MEMORY and 1.3 STORAGE

### RANDOM ACCESS MEMORY (RAM)

- RAM is the computer's main memory that holds the data, programs and files while they are being used.
- RAM is volatile (power off = the data is lost)
- The CPU will fetch instructions from the RAM in the fetch decode - execute cycle.
- When the RAM is full the computer uses VIRTUAL MEMORY. It uses the secondary storage as temporary RAM so that the
  - computer can continue running (but slowly).

### READ ONLY MEMORY (ROM)

- The ROM is on a chip build into the motherboard
- It contains the BIOS (boot up sequence for the computer)
- ROM is non-volatile (data still stored after power is off)

### TYPES OF STORAGE

Secondary Storage: where all data including the programs are stored when they are not being used.

Storage	Key Information	
Hard Disk Drive (HDD)	Magnetic, has moving parts, large capacity, lower cost than SSD	
Solid State Drive (SSD)	Flash memory, no moving parts, more robust than HDD, faster and more expensive than HDD	
Flash memory	e.g. USB memory sticks, memory cards.	
Optical Storage	e.g. CDs, DVDs. Cheap, portable and fairly robust.	
Magnetic tape	Used for archive storage (backups). Very large capacity, low cost, slow.	

Storage device comparison factors: speed, cost, durability, robustness, capacity and portability.

### STORAGE CAPACITY

Some storage methods such as a HDD or SSD have a large capacity (they can store lots of data. Other devices such as CDs and SD cards have smaller capacity. Measurements of capacity are shown below:



1000 instead of 1024 could be used when doing your conversion calculations, because you will not be allowed a calculator in your exam.

### EXAM QUESTIONS

- Explain how the RAM works with the CPU in the fetch -decode - execute cycle
- Explain the difference between volatile and nonvolatile memory giving an example of each
- Tom is buying a new laptop, he is not sure whether to get a magnetic HDD or SSD. Discuss the benefits and drawbacks of each.

# 2.2 PROGRAMMING TECHNIQUES

Data Type	Definition
String	Text eg: "Hello"
Integer	Whole number eg: 32
Float/Real	Decimal number eg: 1.2
Boolean	Two values eg: true or false
Character	A single character eg: b

### VARIABLES AND CONSTANTS

Variable - A value which may change while the program is running. Variables can be local or global.

Local Variable - a variable which can only be used within the structure they are declared in.

Global Variable - a variable which can be used in any part of the code after they are declared

Constant - A value which cannot be altered as the program is running.

	OPERATORS		
Operator/Function Definition			
Exponentiation	Raises a number to a power eg: 2**3 OR 2 ^3 (=2 <sup>3</sup> )		
Quotient/DIV	Gives the whole number after	er a division	
Remainder/MOD	er/MOD Gives the remainder part of a division		
	Is equal to		
! or <>	Is not equal to		
<	Is less than		
>	Is more than		
	ARRAYS		
	Alliand		
One-Dimensional Arrays In this example an arr students. The list car	s- this is like a list. ray has been created called n hold 3 items (as shown).	<pre>array students [3] students [0] = "Bob" students [1] = "Dave" students [2] = "Bob"</pre>	
This command would print the second item (1) From the array. It would print "Dave".			

Two-Dimensional Arrays - these are lists within lists (like a table)

Grades=[["Bob", "22%", "44%"], "85%", "100%"]]	["Dave",
The code above creates the 2D ar	ray. The code
"Bob's first test score was 22%"	

print("Bob's first test score was " + Grades [0, 1]

2

44%

100%

0

Bob

Dave

0

1

22%

85%

# Sequence Iteration times) for i=0 to 7 next i endwhile do 2 7

# 2.2 PROGRAMMING TECHNIQUES CONTINUED

0

W

1

0

2

3

d

PROGRAMMING CONSTRUCTS

A Sequence is when there are programming steps that are carried out one after another.

Selection is where there are different paths in your code eg: IF, ELIF, ELSE

Iteration is when there is repetition (loops) in code. This could be a WHILE loop (do something WHILE a condition is met) or a FOR loop (do something for a set number of

This count-controlled loop would print "Hello World" 8 times.:

print ("Hello")

These condition controlled loops would check if a password's correct:

while answer != "letmein123" answer=input("Enter password")

answer=input("Enter password") until answer=="letmein123"

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The characters in a string are numbered starting with position 0.

Function	Purpose		
x.length	Gives the length of the string		
x.upper	Changes the characters in the string to upper case		
x.lower	Changes the characters in the string to lower case		
x[i]	Gives the character in position i. Eg: x[2] = "r"		
<pre>x.substring(a,b)</pre>	Gives the characters from position a with length b. Eg: x.subString(1,2) = or		
+ Joins (concatenates) two strings together			

### FILE HANDLING

Myfile=openRead("myfile.text")	Opens the file in read mode
Myfile=openWrite("myfile.text")	Opens the file in write mode
Myfile.writeLine ("Hello")	Writes a line to the file
Line1=myfile.readLine()	Reads one line of the file
Myfile.close()	Closes the file
endOfFile()	Used to determine the end of a file

### IF/ELSE AND SWITCH/CASE FOR SELECTION

IF ELSE	SWITCH/CASE	
If choice == "a" then	Switch entry:	
print("You chose A")	case "A":	
elseif choice=="b" then	print("You chose A")	
print("You chose B")	case "B":	
else	print("You chose B")	
<pre>print("Unrecognised choice")</pre>	default: print("Unrecognised choice")	

# **Beginner's Python Cheat Sheet**

### Variables and Strings

Variables are used to store values. A string is a series of characters, surrounded by single or double quotes.

### Hello world

print("Hello world!")

Hello world with a variable msg = "Hello world!" print(msg)

### Concatenation (combining strings)

first\_name = 'albert' last name = 'einstein' full\_name = first\_name + ' ' + last\_name print(full name)

### Lists

A list stores a series of items in a particular order. You access items using an index, or within a loop.

### Make a list

bikes = ['trek', 'redline', 'giant']

### Get the first item in a list

first\_bike = bikes[0]

Get the last item in a list

last\_bike = bikes[-1]

Looping through a list

for bike in bikes: print(bike)

### Adding items to a list

bikes = [] bikes.append('trek') bikes.append('redline') bikes.append('giant')

### Making numerical lists

squares = [] for x in range(1, 11): squares.append(x\*\*2)

### Lists (cont.)

### List comprehensions

squares = [x\*\*2 for x in range(1, 11)]

Slicing a list

finishers = ['sam', 'bob', 'ada', 'bea'] first two = finishers[:2]

Copying a list

copy\_of\_bikes = bikes[:]

### Tuples

Tuples are similar to lists, but the items in a tuple can't be modified.

### Making a tuple

dimensions = (1920, 1080)

### If statements

If statements are used to test for particular conditions and respond appropriately

### Conditional tests

equals	x	== 42
not equal	x	!= 42
greater than	x	> 42
or equal to	x	>= 42
less than	×	< 42
or equal to	x	<= 42

### Conditional test with lists

'trek' in bikes 'surly' not in bikes

### Assigning boolean values

game active = True can\_edit = False

### A simple if test

if age >= 18: print("You can vote!")

### If-elif-else statements

if age < 4: ticket\_price = 0 elif age < 18: ticket price = 10 else: ticket\_price = 15

### Dictionaries

Dictionaries store connections between pieces of information. Each item in a dictionary is a key-value pair.

A simple dictionary

alien = {'color': 'green', 'points': 5}

### Accessing a value

print("The alien's color is " + alien['color'])

Adding a new key-value pair

alien['x\_position'] = 0

### Looping through all key-value pairs

fav numbers = { 'eric': 17, 'ever': 4} for name, number in fav numbers.items(): print(name + ' loves ' + str(number))

### Looping through all keys

fav\_numbers = {'eric': 17, 'ever': 4} for name in fav\_numbers.keys(): print(name + ' loves a number')

### Looping through all the values

fav\_numbers = {'eric': 17, 'ever': 4} for number in fav numbers.values(): print(str(number) + ' is a favorite')

### User input

Your programs can prompt the user for input. All input is stored as a string.

### Prompting for a value

name = input("What's your name? ") print("Hello, " + name + "!")

### Prompting for numerical input

age = input("How old are you? ") age = int(age)

pi = input("What's the value of pi? ") pi = float(pi)

# Python Crash Course

Covers Python 3 and Python 2

nostarchpress.com/pythoncrashcourse



8

# **Cooking & Nutrition**

### **Food Spoilage**

When a food deteriorates in quality or becomes unsafe to eat it is called **spoiled.** This can happen through natural **decay** caused by **enzymes** or **bacterial contamination**. Both enzymes and bacteria need the right conditions to work. If these conditions are changed then the rate of food spoilage will change. Speeding up if in excess or slowing down if reduced.



Above: Conditions needed to cause Food Spoilage (FAT-TOM)

**Enzymes:** Biological catalysts in living things that speed up chemical reactions. Depending on the circumstance the chemical reaction could start the process of decay, ripening and also browning\*.

When foods become spoiled they change texture, shape, taste and their aroma will become more pungent. Strawberries will become very soft, furry, they may start to grow fur, shrink in size whereas bread becomes dry and starts to grow mould



Bacteria: pathogenic microorganism that can cause illness if consumed.



Enzym

Brownin

\*Enzymic Browning: The discolouration (browning) in fruit and veg due to the reaction of enzymes with cut flesh (e.g half an apple) and oxygen.

Consider where would you store vegetables to make them last longer?

Food Poisoning: an illness that is caused by consuming food or water that has been contaminated by specific **pathogenic bacteria** (examples of which are below)

**Campylobacter:** found in raw poultry and meat, milk and untreated dirty water E. Coli: found in beef (especially mince beef) raw milk (milk that has not been heat treated), dirty water.

Salmonella: found in raw and undercooked poultry, eggs and raw milk Listeria: soft cheeses, cheese made from unpasteurised milk, salad vegetables and pates Staphylococcus Aureus: found on people (especially on hands, nose, mouth, skin, in cuts and skin infections), raw milk, cold cooked meats and dairy products

Contamination: The transfer and subsequent presence of harmful bacteria or chemicals in food or preparation area. There are 4 types of contamination:



Biological Contamination: Any transfer of bacteria from human, animal or food to food or preparation area. Including sneezing, coughing, blood, pus/transfer of bacteria from animal to their food product -meat, eggs, milk/transfer of bacteria from unclean hands

Cross contamination: is an example of biological contamination, it refers to the transfer of bacteria from raw meat to ready to eat foods

Physical Contamination: when a tangible object (you can see or feel) falls into food eg. hair, finger nails, plasters, plastic, dirt. Physical contaminants can act as vehicles to transfer of bacteria

Chemical Contamination: any transfer of chemicals eg, bleach, pesticides, cleaning product and perfume.



### **High Risk Foods**

food

safe



High Risk Foods are foods that have the idea conditions for the growth of bacteria. They often are high in protein and moisture. Preventing cross contamination is especially important when using high risk foods.

NB: The risk is reduced when food is cooked thoroughly however can return unless consumed or stored correctly. Think FAT-TOM!

# Aspiration Creativity Character

9

### Food Science: Carbohydrates in Cooking



When **dry** (toaster, oven, grill) heat is applied to a **starchy** food (bread/pizza dough, cake, biscuit), the **starch molecules** are broken down into sugars called **dextrins.** This is called **Dextrinization**. The dextrins change the colour (brown) and taste of the food. If the food is overcooked the **starch** turns to **carbon** 



When starch molecules are heated and surrounded by a liquid (like milk) they begin to absorb the liquid, eventually bursting and thickening. This is called Gelatinisation. Potatoes are used to thicken soups, cornflour or flour for sauces eg. Cheese sauce, gravy, custard

Viscosity

Viscosity refers to the flow and thickness of a sauce. The viscosity will be determined by the amount of starch, liquid & level of heat. Using a ratios will help to balance the ingredients

The absorption of water by starchy Foods causing the volume to increase (and becomes softer in texture) eg. Pasta and potatoes. This is known as **Bulking**.

> When **flour** and **water** are mixed **gluten** is formed. Through **kneading**, gluten is stretched and the dough is more **elastic**. It also creates gluten networks which trap CO2 released by the yeast.



Kneading

When dry heat reacts with sugar it caramelizes causing a sweeten taste and some change in colour.



# Use a shopping list when buying food Freeze any leftovers Use leftovers in other dishes

environment.

•

 Understand the difference between best before dates and use by dates so to ensure food is eaten in time

Food in the Wider World: Food Wastage

money but also reduces the impact on the

Plan meals in advance

Ways to reduce food waste:

Minimising food waste not only saves the consumer

Packaging also should be considered to reduce wastage eg. buying food with minimal packaging or packaging that can be easily recycled

> MACRONUTRIENTS: ed by the body in large am

MICRONUTRIENTS: Needed by the body in small ar

### **Nutrition & Malnutrition**

Food provides your body with the nutrients it needs to work.

Malnutrition is a serious condition that happens when your diet does not contain the right amount of nutrients, this could be too few or too many. Somebody who suffers from malnutrition is malnourished.

Too many nutrients consumed through too much food can result



Too little protein (macronutrient) can result in the condition Kwashiorkor and too little vitamin C (micronutrient) Rather than putting old (not spoiled) food in the bin, it can be reused in other dishes for instance 'bendy' veg could be used in a stew or soup.

Leftovers can also be saved to make other meals for instance the beef ragu from a bolognese could be used to make a cottage pie or lasagne. Again not wasting food!





Nutrient	Function			
<b>Carbohydrates</b> Bread, Pasta, Potatoes, Rice, Cereals	Broken into Starch and Sugar -Starch foods are called complex carbohydrates and release energy over a long period of time. -Sugar are called simple carbohydrate. They release energy quickly. Lactose, Fructose and Sucrose are all Sugars.			
Fibre Whole grain products, skins of fruit & veg	-Prevents constipation -Absorbs poisonous waste from digestive food -Stays undigested but helps move digested food through our system			
<b>Protein</b> Meat, Diary, Eggs, Beans, Chickpeas	-Helps repair and grow new cells (muscles and body tissue) -Acts a secondary source of energy			
Fat Dairy, Meat, Oily Fish, Avocados, Olive Oil	-Insulates the body from the cold -Cushions your bones and organs from any damage caused by knocks. -Stores energy			
Vitamins Fruit & Veg	They are generally used to: -Controls chemical reactions -Keeping the body healthy and preventing some diseases linked to a poor diet -Regulate the function and repair of cells			
Minerals Fruit, Veg, Meat	They are generally used to: -Turn the food we eat into energy Build strong bones and teeth - Control body fluids			
Water	-Our bodies are 65% water. It is vital for our body to stay hydrated. -Chemical reactions in our cells take place in water. -Waste products are passed out of our bodies in water. -Our blood transports substances that are dissolved in water. -Water is in sweat that cools us down			

### Genre

### Key Definitions

Genre is a category or 'type' given to plays based upon the conventions used e.g. tragedy, comedy, farce and melodrama.

**Conventions** are the expected features of a particular genre. **The medium** is how something is communicated e.g. TV, film, theatre, literature.

### Western conventions:

KAM.

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Set in America in later half of 19<sup>th</sup> century. Stock characters include cowboys/Indians/Sheriff/outlaws. Locations include the saloon bar/the desert/the jail. The shoot out: quick draw. The stranger arriving in town. Guns/horses/lassos/cowboy hats/American accents. The role of women in this genre is limited . Actors famous for this genre include John Wayne and Clint Eastwood.





Greek theatre started in approximately 500BC. There were three different genres: Comedy, Tragedy and Satyr. Other conventions include use of mask. Originally there was only one actor. A group of actors who performed in unison called the chorus. Always performed outside in an amphitheatre.

### Self Quiz: LOOK, COVER, WRITE, CHECK & CORRECT

Can you learn the meanings of the key definitions? Can you give examples of other genres from all 4 mediums?

Medium	Genre	Example 1	Example 2	Example 3
Theatre	Thriller/	Woman in	An Inspector	
	Suspense	Black	Calls	
TV	Soap Opera	Coronation	Eastenders	
		Street		
Film	Sci-Fi	Star Wars	Star Trek	
Literature	Gothic	Jane Eyre	Frankenstein	

### Doctor Jekyll

Self-Quiz - Look, Cover, Write, Check, Correct

Look and learn these characteristics and quotes about Doctor Jekyll

Well-liked

Smart and presentable

Respectable

Educated

Moral

Distinguished Kind Gentleman Reputable Intelligent



Embodies virtue Honourable "A large, well-made, smooth-faced man of fifty, with something of a stylish

cast perhaps, but every mark of capacity and kindness"

"Fond of the respect of the wise and good among my fellow men"

"I concealed my pleasures"

### Mr Hyde

### Self-Quiz-Look, Cover, Write, Check, Correct

Look and learn these characteristics and quotes about Mr Hyde

Ugly

Centred on self Decay Villainous Beast in man Countenance of evil Deformed Intimidating Awkward Depraved Animalistic Embodies evil

"Stumping along"

Hissing and snarling

"Black sneering coolness"

Speaks in short sentences

"He spoke with a husky whispering and somewhat broken voice" "He gave me one look, so ugly that it brought out a sweat on me" "Abnormal and misbegotten in the very essence of the creature who now faced me – something seizing, surprising and revolting." **Doctor Jekyll and Mr Hyde** is a novel written by **Robert Louis Stevenson**. In 1866 during the **Victorian era**. It is a story about a respectable doctor who drinks a potion to transform himself into a savage murderer.



### Victorian Values

In the Victorian era, people were born into a social position/class and this determined their personality/character.

Upper class men were expected to be 'gentlemen'. This meant they were expected to dress, speak and eat in a particular way. They had to abide by the law, and follow religious morals.

### Main Theme

The duality of man "man is not truly one, but truly two".

### Sentence Stems

Use the sentence stems to describe how you would show the transformation of Dr Jekyll into Mr Hyde. What does his transformation symbolise?

When we/I/they describe the drama.

This effectively communicates explain how it links to the intentions to the audience.

Flocking is choral movement by a group of performers. There are examples of flocking below:







# **MATERIALS - PAPERS and BOARDS and their PROPERTIES**

PAPERS			BOARDS				
USES	PHYSICAL and WORKING PROPERTIES	ADVANTAGES and DISADVANTAGES	USES	PHYSICAL and WORKING PROPERTIES	ADVANTAGES and DISADVANTAGES		
Layout Paper - for tracing design ideas to develop them further	Smooth finish and some transparency, able to see the image or drawing underneath to further develop a sketch.	Strong, low cost but can smudge if altering a drawing with eraser	Mounting Board - for mounting work and pictures, model making	Coloured surface with white board behind, thick, strong and lightweight	Good quality and available in many colours, but expensive and does not bend easily		
Copier Paper - for	White or coloured with a smooth finish,	Readily available and can be	Folding Boxboard - for food box packaging	Good printing surface, can be scored, bent and creased easily	Relatively inexpensive but not very strong		
inkjet printing, photocopying	lightweight and inexpensive in bulk	printed on easily but not strong and lacks quality	Corrugated Board - for	Layered card with crimped structure inside, good	Readily available with good		
Tracing Paper - for tracing images to copy them	Smooth finish and very transparent, easy to see the image and trace	All sizes readily available but can be expensive for better quality types	packaging boxes, the protection of parcels	strength with the option of different thicknesses	impact resistance, but bends easily in one direction and is not water resistant		
Recycled Paper - for toilet paper, paper towels, paper	Rough surface, grainy and flexible, can be printed on and coloured	Benefits to the environment and inexpensive but not very strong	Heated Rollers Plastic or foil film	THE FIVE MATER Papers and Board Timbers and Mar	IAL AREAS ds nufactured Boards		



### foil film Paper or card Direction of movement Laminating Process

### THE FIVE MATERIAL AREAS Papers and Boards Timbers and Manufactured Boards Thermoforming and Thermosetting Plastics Metals Natural and Synthetic Fabrics and Fibres

### PHYSICAL PROPERTIES

bags

Absorbency	The ability of a material to soak up moisture, heat or light. Natural materials such as cotton or paper tend to be much more absorbent than synthetic materials such as acrylic or polystyrene.
Density	How solid a material is. This is calculated by dividing mass (grams) by volume (cm3). Lead and iron are dense materials.
Electrical Conductivity	The ability to conduct electricity. E.g. copper is a good conductor of electricity and is used in electronic products and wiring.
Fusibility	The ability of a material to be be heated and joined to another material when heated. E.g. heated lead free solder can be used to join an electronic component to a circuit board
Thermal Conductivity	The ability to conduct heat. E.g. Steel is a good conductor of heat whereas pine is not. As steel or aluminium saucepans get very hot and conduct heat, their handles need to made from a non-conductive or <i>insulating</i> material.

### WORKING PROPERTIES

Strength	The ability of a material to withstand compression, tension or shear. Mild steel for example is a good material to make furniture frames because it is strong and can withstand human weight.
Toughness	Materials that are hard to break or snap are tough and can absorb shock. Kevlar in a bullet-proof vest is an extremely tough and impact-resistant material. Phone cases need to be tough.
Hardness	Hardness is the ability of a material to withstand scratching. Phone screens and spectacle lenses need to be hard.
Malleability	Malleability is the ability of a materials to be bent or formed into shape. They will then retain that form. A paper clip is malleable. Car body panels need to be malleable.
Ductility	Ductility is the ability of a material to drawn into a wire or length. Copper is a very ductile material and is used for electrical wiring and cabling.

encapsulated

item

Size	A10	A9	AB	A7	16	AS	A4	AB	A2	AS	AD	2.00	440
(mm)	37	52	74	105	148	210	297	420	594	841	1189	1682	2378
Width (mm)	26	37	52	74	105	148	210	297	420	594	841	1189	1682

most common sizes used by designers

### **Social and Ecological Issues**

A great number of trees have to be cut down in order to manufacture 'virgin' paper.

Paper and board can only be recycled seven times before it has to be mixed with new fibres. It is important to recycle paper and boards as this will have less impact on the environment through factors such as deforestation, which can then lead to soil erosion.

**Deforestation** has a huge effect on the ecosystem and the people and specific breeds of animals that rely on them, affecting the biodiversity.

Design Context - Situation that creates

Design Brief - An instruction from a client to

connected to, involved with or affected by a

Primary User - The person who will need

Design Specification - A list/set of design requirements that come researching the

needs of stakeholders or primary users.

and use the product the most. The person

a designer. A short statement of intention.

Stakeholders - Anyone interested in,

with the greatest design need.

opportunities for design.

design situation.

**Pulp and Paper Industry** 

**Pulp and Paper** 

Manufacturing Process



### DESIGN **Tools and Equipment** Craft Knives. • Cost Safety Rulers, Cutting Maps, Masking Tape, Paper Fasteners.



- Availability
- Aesthetic
- Functionality
- Environmental
- Social
- Cultural
- Ethical

## **Sources and Origins**

Paper is made from new fibres or **recycled** material. **Wood pulp** is obtained by cutting down trees and breaking down the wood. The bark and chippings are then removed and ground down or cooked with chemicals to extract the cellulose fibres. Softwood trees are traditionally used to create wood pulp as the fibres are longer, making stronger paper; some manufacturers plant new trees for each one they chop down.

The pulp is filtered, squeezed, bleached and pounded before other materials, such as chalk or chemicals, are added to change the opacity and absorbency of the paper. The excess water and chemicals are drained out of the pulp by pushing it through sets of rollers, called 'calenders', before being shaken and blown to dry out the fibres. This process is repeated until the pulp is fully dried, and then it is pressed to create a smooth finish.

mechanical pulp - by mechanically grinding the wood chips down into paper pulp, used for lower grade papers such as newspapers.

chemical pulp - uses chemicals to reduce the wood chips down and dissolve into cellulose fibres to make the paper pulp, used for higher quality paper.

Additional treatments, or 'coatings', can be added to give the paper different aesthetics.

# Aspiration Creativity Character

TI

ROMEO A	ROMEO AND JULIET - PLOT		Themes	Subject Vocabulary	Context	
Act 1	In Italy two noble families, the Montagues and Capulets, have much bad blood between them. Romeo, son of old Montague, is in love with Rosaline, who disdains his love. As a result, Romeo is depressed. To cure him of his love, his friend Benvolio induces him to attend a masked ball at the Capulets, where he could encounter other	Love: The lov and they wou chaotic.	ve Romeo and Juliet have for eachother is passionate Id give anything for it. Likewise it is destructive and	tragedy: a play with an unhappy ending, featuring the downfall of the main character	<b>Courtly Love and cures for lovesickness:</b> common in medieval literature where a knight was consumed with passion for an unattainable	
		Fate: Shakes	speare conveys the power of fate and the idea that our apped out by God no matter what we do.	oxymoron: two contradictory terms	Elizabethan doctors saw unrequited love or desire as a disease, sometimes called	
	beauties and forget Rosaline. At the ball, Romeo is attracted by a girl who he learns is Juliet, daughter of			soliloquy: a monologue addressed to	lovesickness. They tried various cures and sometimes sent patients to church to confess to	
	the Capulets. They seal their love with a kiss.	Violence/ Co and Juliet. Sh	nflict: Conflict rules the characters' lives in Romeo nakespeare explores the futility of conflict and	shared sonnet: a sonnet snoken by	a priest. They believed that it could lead to	
Act 2	Romeo lingers in Capulet's garden, standing in the	violence.		two people	Arranged marriages: Marriages amongst the	
	orchard beneath Juliet's balcony. He sees Juliet leaning over the railing, hears her calling out his name, and	Gender: Both	n Romeo and Juliet are pressured to conform to the	patriarchal: society run by men	wealthy were arranged by parents in order to	
	wishes that he were not a Montague. He reveals his	often linked to	o violence, while women are expected to be	foreshadow: predict a future event	match or improve social standing. However, in practice, parents did try to choose someone	
	to be married secretly.	Romeo	Intense, intelligent, quick witted, and loved by his	Romeo and Juliet Vocabulary	their child liked and was happy to marry. Secret marriages such as that between the young	
Act 3	Act 3 Tybalt encounters Romeo returning from Friar Lawrence's cell. Romeo, softened by his newfound love and his marriage to Juliet, refuses to be drawn into a quarrel with Tybalt, now his kinsman by marriage. Mercutio grapples with Tybalt and is killed. Aroused to fury by the death of his friend, Romeo fights with Tybalt and kills him and takes shelter in the Friar's cell.	Montague	friends.	brawl: a fight	Romeo and Juliet would have been both illegal and shocking.	
		Juliet Capulet	Naïve and sheltered at the beginning, develops into a woman with strength. Grounded.	mutiny: open rebellion against authority	Role of women in a patriarchal society:	
YZY		Mercutio	Romeo's close friend. Wild, playful and sarcastic	unreciprocated: not returned	men. Women were seen as the weaker sex and	
		Tybalt	Juliet's cousin. A hothead consumed by issues of family honour. Hates the Montagues.	feud: a prolonged disagreement	importantly, obedient to their fathers and their husbands.	
Act 4	In despair, Juliet seeks Friar Lawrence's advice. He gives her a sleeping potion, which for a time will cause her to	Benvolio	Romeo's cousin, less quick witted than Romeo and Mercutio, tries to keen the peace	banish: to send away for good	Duelling and the concept of honour:	
	appear dead. Thus, on the day of her supposed marriage to Paris, she will be carried to the family vault.	Friar	A Franciscan monk and a friend to both Romeo and	duel: contest with deadly weapons	Maintaining the honour of your family name was hugely important. If you were challenged to a	
	By the time she awakens, Romeo will be summoned to the vault and take her away to Mantua.	Laurence Juliet.		honour: having high respect	duel and you refused, you would be deemed a coward, thus damaging your honour and the	
		Nurse	Juliet's best friend and confidante, and in many ways is more her mother than Lady Capulet is.	futile: pointless	status of your family. Most Elizabethan gentlemen carried swords in public and many did	
Act 5	The Friar's letter fails to reach Romeo. When he hears of Juliet's death Romeo buys a deadly poison from an	Prince	Leader of Verona, concerned with keeping order	authoritarian: enforcing strict	fight in the streets.	
	apothecary and secretly returns to Verona to say his last farewell to his dead wife and die by her side. At Juliet's	Paris	Nobleman given permission to woo Juliet initially	superficial: surface level	<b>Tragic Hero:</b> A Tragic Hero is the protagonist who has sympathetic traits but who meets a tragic	
	side, Romeo drinks the poison and dies. When Juliet awakens from her deep sleep, she realises Romeo's	T ans	then to marry her after Tybalt's death. Killed by Romeo	predestination: idea that God has	end. Romeo is considered a tragic hero because he is of noble birth, strikes fear into the audience	
	error and kills herself with his dagger. The Capulets and Montague decide to reconcile as a result of the deaths	Lord	Patriarch of the Capulets Arranged marriage for	decided all that will happen	through his demise and allows his tragic character flaw to influence his choices which consequently leads to his downfall.	
	of their children.	Capulet	Juliet, quick to anger when disobeyed.	impulsive: acting without thinking		

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16

Descriptive techniques Key Subject Ter		rminology	Sentences				
Technique: Example: Blank verse		Verse without rhyme, especially that which uses iambic	Technique:	Example:			
Personification - aThunder roaredmetaphor attributingthe dark skies.human feelings to an		<u>Thunder roared</u> in the dark skies.	Dramatic irony	pentameter A comparison in which one thing is said to be another.	Simple Sentence: One clause. Contains a subject and verb. Makes sense by itself.	She ran. She was home. They were bored.	
object.Onomatopoeia - words that sound a little like they mean."cheeping feebly" and "grunting"Pathetic fallacy - using the weather to create or reflect a certain mood."Day after day, a vast heavy veil had been driving over London from the		Foreshadowing	A literary device in which a writer gives an advance hint of what is to come later in the story	Compound Sentence: two sentences joined by FANBOYS conjunctions	She was scared, <b>yet</b> she kept walking. She was scared, <b>bu</b> t she stopped walking.		
		"Day after day, a vast heavy veil had	lambic pentameter	A line of verse with five metrical feet (10 syllables total), each consisting of one short (or unstressed) syllable followed by one long (or stressed) syllable	<b>Complex sentence:</b> main clause (makes sense on its own) and at least one subordinate clause (does not) The subordinate	She scanned the room squinting through the hole in the stone. Squinting through the hole in the stone, she	
		been driving over London from the	Imagery	Language used to represent objects, actions, and ideas in such a way that it appeals to our physical senses and creates	clause can be used.		
		East" (Great Expectations)	Imperative	a vivid image in the reader's mind A type of sentence (often beginning with a verb) that	Minor Sentence: An incomplete sentence missing a subject or verb used for	Look! Weird!	
Metaphor -	a descriptive	"There was a stormy debate over the correct retiring		expresses an instruction, command or order.	effect.		
technique t person, thir	nat names a ng or action as		Interrogative	A type of sentence that asks a question.	<b>Coordinating Conjunctions</b> - join two main clauses to create a	FANBOYS For/And/Nor/But/Or/Yet/So	
something else.		age of each animal."	Rhyming verse	Verse that has a rhyme scheme (i.e. lines end with rhyming words)	compound sentence	The majestic bird soared through the clear blue sky <u>and</u> the wind whistled melodically.	
<u>S</u> imile - a d technique t one thing w	escriptive hat compares vith another,	"She felt like a prisoner in her own mind"	Sonnet	A poem that has 14 lines and a particular pattern of rhyme (ABAB CDCD EFEF GG)	Subordinating Conjunctions - start subordinate clauses which help create complex sentences	If/ Since/ As/ <u>W</u> hen/ <u>A</u> lthough/ <u>W</u> hile/ <u>A</u> fter/ <u>B</u> efore/ <u>U</u> ntil/ Because ( ISAWAWABUB) <u>Although</u> it had been raining, the ground was	
usually using 'as' or 'like'.			Semantic field	A set of words related in meaning		dry. It had been raining <u>althouah</u> the ground was dry.	
Structurin	g fiction (story w	riting)		Drop - Sentence Starters	Flash - Sentence Starters		
Drop Start in the middle of exciting action			In that moment All around, I could feel	It had only been a few hours ago when Earlier that morning			
Zoom Choose something that you will 'zoom in' on and describe in detail		A sudden gust of not air blew, pushing The music pounded louder and louder until	I The streets had been deserted when Back at home				
Flash Change the time or place of your story				Zoom - Sentence Starters	Echo - Sentence Starters		
Echo Bring it back to where you were at the start. What has changed?			nat has changed?	Immediately, the colours of the caught my eye The subtle shades of	The grew louder than ever before Repeat a word / phrase / image from the start		

17

# **Globalisation & TNCs**

Globalisation is the process by which the world is becoming increasingly interconnected as a result of massively increased trade and cultural exchange. It has increased the production of goods and services. The biggest companies are no longer national firms but TNC's operating in many countries. Globalisation has been taking place for hundreds of years, but has sped up enormously over the last half-century.

	Key Terms	Why has globalisation increased?	Globalisation is bad?
Containerisation Head quarters	A shipping method where products are packed into large standard size containers that are easily stacked onto huge ships and transported around the world. All containers across the world are the same size. Or Head office is the main office where the management decisions are made for example	<ul> <li>TNC's – More global companies means there has been an increase in trade and relationships between countries.</li> <li>Products are available globally spreading culture and ideas.</li> <li>Communication and Technology – The internet, Wi-Fi and mobile phones mean thoughts, trends and information can be shared instantly around the world. Meetings can be held</li> </ul>	Increases the development gap between the rich and the poor as richer countries as profits from TNCs stay in developed countries. Increase in pollution and climate change from the increasing transport of goods and factories Environmental concerns as raw materials are
Infrastructure	marketing & design The built systems needed for a country to operate for example roads, bridges and equipment such as communications	virtually allowing business and trade to take place with companies in different time zones. Transport – This has become cheaper, quicker and can carry you further so it is easier for people and products to be	extracted destroying habitats. Viewed as a <b>threat to the world's cultural diversity</b> as local heritage is changed
Outsourcing Moving parts of the business or getting resources from other countries usually because they are cheaper.	moved around the world. Containerisation has enabled products made in other countries to be quickly and more cheaply transported.	expense of industry in developing countries is at the expense of industry in developed such as the UK in Stratford where many areas face decline and	
Positive multiplier effect	Knock on benefits from the industry or trade in an area. For example taxes paid by TNCs can be used to improve schools	Governments – Now work with each other more than ever to try to solve global problems such as climate change. There are many intergovernmental organisations such as the UN and world bank that help to spread globalisation.	Absence of strict laws means that many people work in poor conditions
Sweatshop	A factory where there are very poor working conditions, often illegal. Workers will work for long hours with little nav	Freedom of Trade – organisations such as the World Trade Organisation (WTO) promote free trade between countries	Globalisation is good?
Тах	An amount of money paid to the government from income	Labour - countries such as India have lower labour costs (about a third of that of the UK) and also high skill levels.	and skills for local people increasing the wealth of people The sharing of ideas, experiences and lifestyles of people and subscription of the second seco
TNC	A large company operating in many countries e.g. Mcdonalds	Labour intensive industries such as clothing can take advantage of cheaper labour costs and reduced legal restrictions in LEDCs	previously available in their countries. Globalisation increases awareness of events in faraway parts of
Trade Westernisation	The buying and selling of goods The spread and adoption of western culture		the world. For example, the UK was quickly made aware of the 2015 Nepal earthquake Globalisation may help to make <b>people more aware of global</b> <b>issues</b> such as deforestation and global warming and alert them

What is glocalisation? Glocalisation is a combination of the words 'globalisation' and 'local' it describes when a globalised product or idea that is spread around the world is adapted to local cultures and tastes to make it more accessible, understandable or desirable to different people. A good example is McDonalds who sell products such as the McFalafel in Israel where Big Mac burgers would not sell well. This means McDonalds makes more profit in additional markets. Links: BBC Bitesize

# The rise and fall of superpowers

Superpower - a country which is able to project its power and influence anywhere in the world. It is a dominant global force. Countries can exert their influence using a direct or indirect control over others.

### Links: BBC Bitesize - China & India Russia

How have patterns of power changed since the British Empire?					
Imperial Era 15th - 19th C	European countries dominated through land grabbing. The British Empire was the superpower when in controlled 1/4th of the world. It used direct control including military power, exporting resources, using people as slaves and spreading British culture to maintain power.				
Inter war 1919-1930	Colonies began to break away from European control and the USA was now the biggest economy. Britain's superpower status declined.				
Cold War 1947-1991	The USSR was growing rapidly due to oil and steel exports and became a rival superpower to the USA with opposing ideologies. They entered a cold war where they used indirect soft power to challenge each other.				
1991 Present	USA remained the superpower dominating the economy, trade and international decision making.				
Future	Rise of the <b>BRICs</b> ? Possible return to a time where there is more than one dominant superpower.				

	Key Words
BRICs	A group of countries that could be the next superpower. Brazil, Russia, India & China.
Emerging power	A country the is growing significantly in power and beginning to extend a more global influence.
Hard power	Power through force for example using military strength.
Soft power	Power through persuasion or favours for example through ideas in films, the censorship of the internet or chosing to give of aid to certain countries.
Sphere of influence	The geographical area over which a country can assert its authority.

### Characteristics of a super power

Economic power - High levels of trade in countries with large numbers of transnational companies (companies that operate all over the world) creates wealth. When a country has a high spending power they can dictate trade terms and spend money developing their country further.

Political power - Being members of a number of economic and political organisations such as the UN and the world bank allows countries to influence others through the decisions that are made.

Military power - spending money developing the newest military equipment, weapons and intelligence services can secure territory, protect populations and gain resources .

<u>Cultural power</u> - cultural ideas can be spread through food, music, films and used to influence others ideologies.

<u>Resource power</u> - having large reserves of natural resources such as coal, oil or metals can be used to make products or sell the resources to other countries. A large population is both a workforce and a market for goods. A larger population can help spread cultural power.



# 18

### Global Conflict in the 20th Century

Summary: Why was the 20th Century so bloody?

This term, we will be looking at different conflicts in the 20th Century. Each week we will learn about the causes of conflicts, the key events and the consequences of them. By the end of this term, you will be able to explain the significance of these conflicts and why the 20th Century was so bloody?

### Key concepts

### World War One: 1914-1918

### Key causes:

- 1. <mark>M</mark>ilitarism
- 2. Alliances
- 3. Imperialism
- 4. Nationalism

### Key Consequences:

**ToV:** The treaty blamed Germany for the war and punished them militarily, territorially and financially.

Women's rights: WW1 had a dramatic effect on women's lives and led to several political, social and economic advancements for women. Technological advances: New weapons and technologies were developed

and used that led to more destruction than any war had seen in the past. WW1 triggered the advancement of many medical advances and technologies.

mass poverty

### World War Two -1939 -1945

### Key causes:

- Treaty of Versailles
- Appeasement
- **German Militarism** Hitler immediately began secretly building up Germany's army and weapons.
- Japan's militarism: In order to produce more goods, Japan needed natural resources for its factories. The Japanese army invaded China, an area rich in minerals and resources.
- **Economic Depression:** The whole world was hit by an economic depression in the late 1920s.

### Key Consequences:

19

**Cold War:** Competition increased between two superpowers (USA and USSR) causing a nuclear arms race

**Decolonisation:** WW2 led to decolonization of Africa by affecting both Europe and Africa militarily, psychologically, politically, and economically.



20

### Global Conflict in the 20th Century

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Key events		Key words
<u>WW1 Key Events:</u> Gallipoli- This attack on Germany's ally, Turkey, featured a large number of Australian	Nationalism	Belief in and pride in the power of your own country. This can lead to competition between countries
and New Zealand troops fighting in support of Britain and France. More than 100,000 troops were killed and hundreds of thousands more were wounded. But victory came at a torrible cost	Militarism	When countries compete to build up their armies, navies and weapons stores. This can lead to suspicion and competition
Somme- The Battle of the Somme is remembered as one of the most deadly battles ever fought. Staring on 1 July 1916, It lasted for 5 months and in total there were around	Imperialism	When countries want to expand their own empire by invading, colonising and taking over other countries and absorbing them into their empire
500,000 British, 430,00 French and 600,000 German casualties.	Independence	When a country wants to run itself and not be governed by another power
casualties, and also for the mud. Passchendaele cost the Allies 325,000 casualties and Germany 260,000 casualties. The Allies only gained five miles of territory in the offensive	Ideology	A set of beliefs, usually political. When powerful groups have different ideologies this can lead to conflict
(attack).	Conflict	A serious clash, in this case referring to war
<b>100 Day Offensive-</b> The Hundred Days Offensive was a series of attacks by the Allied	Arms Race	Competitive growing of militaries between two countries
Armistice on November 11, the Offensive led to the defeat of the German Army.	Liberation	The act of setting someone (or a country) free from the rule of another country or power
WW2 Key Events:	Alliance	A relationship or union based on two countries having similar interests
<b>Dunkirk-</b> The evacuation from Dunkirk, involved the rescue of more than 338,000 British and French soldiers from the French port of Dunkirk between 26 May and 4 June 1940	Treaty	A formal agreement between two or more countries
<b>Pearl Harbour-</b> A turning point for support for America's involvement in World War Two came on 7 December 1941. Japanese planes attacked the US navy at Pearl Harbor, which	Treaty of Versailles	The Treaty of Versailles was a peace agreement that marked the end of World War One. The treaty was signed on 28 June 1919.
was on the Hawaiian island of Oahu. More than 2,400 Americans were killed and around 350 US aircraft and 20 warships were damaged.	Communism	An ideology in which there is a classless society, production is communal, everyone is equal - government is authoritarian in the case of the USSR
<b>D-Day-</b> On June sixth 1944, thousands and thousands of American, British and Canadian troops landed on the beaches. This operation that paved the way for the Allied forces' eventual victory over Nazi Germany.	Capitalism	An ideology in which a country's trade and industry is own privately for profit - democratic leadership in the case of the USA
Battle of Okinawa- On 1 April 1945. The Battle of Okinawa was a victory for the US but	Appeasement	Allowing something to carry on in order to avoid conflict
resulted in massive casualties on both sides.	Resolution	The process of two conflicting countries reaching an agreement to move forward

21

5	Mau Mau Uprising - 1952-1960
	Key Causes: Imperialism: The British empire made laws that took away Africans' rights to their own land which they had been farming for years. After WWI lots of soldiers were housed in Kenya, causing anger and resentment. Nationalism: The nationalist movement that emerged became known as the Mau Mau. The Kikuyu were targeted by the British as nationalists and 20,000 were killed.
	<b>Consequences:</b> The Mau Mau rebellion officially ended in 1960, when British authorities declared a state of emergency and arrested the majority of the Mau Mau leaders. However, the movement had a profound impact on Kenya's struggle for independence, and is seen as a key event in the country's history.
6	Conflict in the Middle East-1914 -Present
	Long Term Causes: Arabs under Ottoman Rule: The Ottomans used force to make some nomadic Arab groups settle in one place, others remained independent. The British Mandate: After the war Britain was given a mandate to control Palestine. Short Term Causes British withdrawal-Britain handed control over to the UN in 1948. UN Resolution 181-Jewish population given 56% of Palestine (Israel) with the Arabs given the 43% to the Arabs. Jerusalem was international zone.
	Suez Crisis: tensions increased with Egypt and Arab nationalism grew Foreign involvement: USSR backed Arab nations, US backed Israel Events: 1948 Arab-Israeli War
	6 Day War: 5-10 June 1967
	<u>Consequences:</u> Un resolution 242 1967 - Israel must withdraw from Palestine Palestinian refugees-huge surge of refugees on the Gaza Strip
	Increase in terrorism- Attacks increased e.g. Munich Olympics killings

Key concepts



# Memory Maths Booklet

Pathway X and A	Pathway B, C and D			
KO1 I know how to find upper bounds and lower bounds and error intervals	KO1 I know the metric conversion units for length, weight, capacity and time			
KO2 I know the rules for standard form				
KO3 I know the formula for completing the square	KO3 I know the quadratic formula			
KO4 I know the exact trigonometric values	KO4 I know the trigonometric formulae			
KO5 I know the properties of a parallel line and the properties of a perpendicular line	KO5 I know how to find the gradient on a linear graph			
KO6 I know the formulae for compound and simple interest				
KO7 I know the formula for finding the constant of proportion	KO7 I know the properties of ratios			
KO8 I know the formulae of surface area and volume of prisms, cones and pyramid	KO8 I know how to find the surface area and volume of cuboids and cylinders			
KO9 I know formula for finding geometric and quadratic sequences	KO9 I know the nth term rule			
KO10 I know the different inequality symbols and how it is represented on a linear graph	KO10 I know the different inequality symbols and how it is represented in a number line			



23











### **Knowledge** Organiser



28



29

ERA



Broken chord: Playing the notes of a chord seperately

### Health, Fitness and Well-Being

Lifestyle choices – the decisions we make about how we live and behave that impact on health. Diet Activity levels

Eating healthy		Eating unhealthy		Active lifestyle		Inactive lifestyle		Good balance		Poor balance	
1. 2. 3.	Boosts energy levels Reduces the risk of developing serious health conditions Help lose weight	1. 2. 3.	Leads to deficiencies Increases weight and % body fat Causes depression with poor body shape	1. 2. 3.	Boosts self esteem Reduces stress and anxiety Improves fitness levels	1. 2.	Increases risk of disease Decreases muscle mass, strength and energy levels	1. 2. 3.	Improves mood Increases productivity at work Contributes to quality of sleep	1. 2. 3.	Increases the risk of depression Leads to weight gain Increased blood pressure

Well being – a combination of physical, emotional and social health.

Positives effects of training/exercise on:

### **Physical health**

- Stronger bones (increased bone density)
- Lower cholesterol / reduced obesity
- Increase/development of components of fitness
   Increase life expectancy



### **Emotional health**

- To increase self esteem/confidence increased endorphins released
- Reduced risk of age-related diseases dementia
- Relieve stress and tension
- Fun/enjoyment / reduced boredom

### Social health

- To develop teamwork skill
- To meet new people/friends
- Develop communication skills
- Develop leadership skills

Negative effects of training on:

- Physical health overexertion leading to heart failure / overuse injuries
- Emotional health training can lead to injury and cause depression
- Social health training long hours means less time spent with family.

**Recreational drugs** – these are taken for pleasure and are legal to those over a certain age.

Work/rest/sleep balance

### Smoking

Causes breathlessness and reduces the oxygen-carrying capacity. This affect aerobic ability for endurance events. Smoking (nicotine) increases the risk of lung cancer, bronchitis, pneumonia & emphysema.

**Alcohol** - contains chemicals which act on the brain affect judgement.

**Sedentary lifestyle** – a lifestyle with no or irregular physical activity. This includes sitting, reading, watching television & playing video games.

Health risks associated are:

- Heart disease
- Type 2 diabetes
- Obesity
- Osteoporosis
- Depression



- Explain what measures you can take to try to keep yourself healthy and fit consider your current lifestyle (4 marks)
- Evaluate which of the negative impacts of health and well being is the most dangerous (6 marks)

# Aspiration Creativity Character

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31

	Faith and conflict								
K	ey Terms	Key Concepts							
Orthodox, Reform and Liberal	The three largest denominations of Judaism	<u>The Binding of Isaac:</u> Abraham and his wife Sarah wanted nothing more than a child and eventually God granted them their wish. When Isaac reached his late teens God once again returned to Abraham to test him he asked him to sacrifice his son. Abraham showed his trust in God by agreeing to kill his son in God's name. God then spared Isaac and Abraham							
Bar Mitzvah	A Jewish ceremony that commemorates a boys passage into adulthood	formed a covenant with God that would be the foundation of the Jewish faith.							
Mazel-Tov	Congratulations in Hebrew	<ul> <li><u>The nature of God in Judaism:</u> In Judaism they consider God to be a friend, someone they can talk to and r times of need. They consider God to be omnipotent and invisible but nevertheless by their side constantly</li> </ul>				k to and rely on in constantly.			
Yom Kippur	Day of atonement								
Rosh Hashanah	.Jewish new year	<u>The reluctant prophet</u> : Jonah never wanted to be a prophet. God kept giving him jobs he didn't want. Eventually asked him to go to the town of Nineveh and tell them their destruction was imminent. Jonah refused and God has							
Covenant	A deal between two parties such as the one Abraham made	swallowed by a giant fish. Jonah then regretted his actions and decided he would follow God's plan after all. The of Nineveh heeded his warnings and changed their ways so they were eventually saved.				an after all. The people			
Sacrifice	An offering of something valuable, in religious terms this	The Promised land: This refers to Israel and in particular Jerusalem , a place the Jews believe was promised to them by God. Unfortunately it was already occupied by the Muslim Palestinians and this has led to the conflicts in the middle east today.							
Repentance	Saying sorry for something and		U	seful Quotatio	ons				
Tanakh		"Now the word of the Lord came to Jonah the son of Amittai, saying, "Arise, go to Nineveh, that great city, and call							
Torah	The first five books of the hible	out against it, for their	evil has come up beid	ore me. Jonan 1:1					
	(old testament) in Hebrew.	"Take your son, your o	nly son Isaac, whom y	ou love, and go to the la	and of Moriah, and offer	him there as a burnt			
Talmud	The writing of Jewish law	offering on one of the	mountains of which I	shall tell you." Genesis 2	22:1				
Ashamnu	Jewish prayer of confession	"Leave your country, yo into a great nation and	our people and your f I will bless you" Gen	ather's household and g esis 12:1	o to the land I will show	you. I will make you			
The Ten commandments		1. Thou shall have no Gods before me	3. Do not misuse God's name	5. Honour your father and your mother	7. Do not commit adultery	9. Do not lie or make false claims			
		2.Do not worship idols	4. Keep the Sabbath Holy	6. Do not kill	8. Do not steal	10 do not be jealous of others.			

	Faith and conflict							
	Key Terms	Key Concepts						
Holocaust	Literally meaning death by fire this marks a time in history when the Nazi's tried to destroy European Jewry as well as people from other	<u>Racial differences:</u> The Nazi's persecuted the Jews as they saw them as an inferior race. They referred to Jews as a Semitic race that didn't have the same qualities as their Aryan race. They were seen as a dilution of German blood so mixing between Germans and Jews was not permitted						
	minority groups such as Homosexuals, Travellers and Jehovah's witnesses	<u>The Ghettos:</u> Before being packed into trains and sent to concentration camps Jews were rounded up and forced to live in small confined apartments in walled parts of the cities where few people went in a even fewer people came out.						
Kinder- transport	The transport that carried children out of Nazi occupied Europe to the UK	<u>The Nuremberg laws</u> : As soon as Hitler was voted into power he and his government started to introduce laws that would start to limit the Jewish way of life. The original laws seemed minor such as Jewish shops were not allowed to open on Fridays, Jews were not allowed pets and then they escalated the laws banning Jews from using forms of communication, banishing them from schools and closing all educational centres that accepted Jewish students.						
Nazi	The organisation and Governmental party led by Adolf Hitler							
Concentration Camp	Camps designed for the eradication and murder of people on a large scale.	<u>Resistance</u> : One of the most frequently asked questions is why didn't the Jews fight back. Many did. there were breakouts from camps and ghettos and many armed sieges but ultimately they were outgunned and outmanned by the Nazis so they looked at other forms of resistance including smuggling people, leaking information and cataloguing the heinous actions of individuals and the Nazis as a whole.						
Auschwitz	The largest concentration camp, over a million people were murdered	Testimony						
	there.	"Escape was not our goal since it was so unrealistic. What we wanted was to survive , to live long enough to						
Perpetrator	A person who actively commits a crime	tell the world what had happened at Buchenwald (Slave labour camp)" Jack Werber Holocaust survivor who helped save the lives of 700 children who were being used for slave labour at Buchenwald						
bystander	Someone who watches and stands by without intervention	"to forget the Dead would be akin to killing them for a second time" Elie Wiesel, Holocaust survivor and						
Collaborator	A person who enables others to perpetrate crimes	Author "even in this place one can survive, and therefore must want to survive, to tell the story, to bear witness: and						
Rescuer	Someone who tried to actively help others.	that to survive we must force ourselves to save at least the skeleton, the scaffolding, the forms of civilization. We are slaves deprived of every right, exposed to every insult, condemned to certain death, but we still						
Anti-Semitism	Prejudice against Jews based on perceived Racial inferiority	possess one power, and we must defend it with all our strength, for it is the last- the power to refuse conser Primo Levi, Auschwitz survivor and author.						

"First they Came" by Pastor Niemoller

First they came for the socialists, and I did not speak out as I was not a socialist. Then they came for the trade-unionists, and I did not speak out as I was not a trade-unionist. Then they came for the Jews, and I did not speak out as I was not a Jew. Then they came for me – and there was no one left to speak for me.

# Aspiration Creativity Character

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33

PiXL	Med	chanical		Force acts up	oon an obj	ect		Change in	therma	ıl energy = n	nass <b>X</b> specific hea	at capacity <b>X</b> tem	perature change	$\Delta E = m \mathbf{X} \mathbf{c} \mathbf{X} \Delta \theta$
rtners in excellen	ce Ele	ectrical	Tompo	Electric cu	irrent flow	on objects	inergy ithwa	pecific E	nergy r	needed to	Depends on: mas	s of substance,	HIGH	ER: efficiency can be using machines.
	Rac	diation	Fl	ectromagnetic	waves or	sound	- <b>d</b> c	apacity s	ubstan	ce by 1°C	put into the syste	ens and energy m.	Ef	ficiency = Useful power output
					waves or	300110						We Ditte		Total power input
Kinetio	: Er	nergy store moving ob	d by a ject		½ X m	ass X (speed ½ mv <sup>2</sup>	1) <sup>2</sup>	mm					Efficiency	= <u>Useful output energy transfe</u> Total input energy transfer
Elastic Potenti energy	: Ei al s /	nergy store tretched sp elastic ba	ed in a pring, ind	兆 (Assuming the	X spring co limit of prop	onstant X (ex ½ ke <sup>2</sup> portionality ha	tension) <sup>2</sup> as not been excee	ded)	(0.5 ) 	Energy stores			Eff	iciency How much energy is usefully transferred
Gravitatio Potenti energy	onal E al c / al	nergy gain an object ro bove the g	ed by aised round	Mass X	(gravitatio	nal field stre mgh	ngth X height			and change	sipatio	Dissipa	e To scatter in all direction or to use	When energy is 'wasted' it dissipates into the surroundings as internal
System	n A	n object or	group o tog	of objects that ether	interact	EG: Kettle k	ooiling water.	$\neg$		AQA	d Dis		wastefully	(thermal) energy.
Energy st	ores g	Kinetic, ch gravitation magne	nemical, al poten tic, elect	internal (the tial, elastic po trostatic, nucle	rmal), otential, ear	Energy is ga from the ol	ained or lost bject or device.		EN	IERGY – part 1	ation an		Ways to reduce 'wasted' energy	Insulation, streamline design lubrication of moving parts
Ways to Light, so transfer are wa energy		Light, soun are ways t and	<i>nd, electricity, thermal, kinetic</i> <i>to transfer from one store to</i> <i>nother store of energy.</i> EG: electricity transfers ch into therma			al energy nemical energy al energy to heat		sed tem	No change total energy	y in	Princip	e of energy a	unt of Energy cannot be created or destroyed	
Unit			Jou	les (J)		water up.			oen 🛛	Energy ca		of ene	rgy same	the only changed from e. one store to another
<b>\A</b> / <b>a</b> wh	Doing transfei	g work rs energy	By applying a force to move an Work done = Force X (			X distance moved		tem	dissipate	<u>,     j</u>			-	
VVOrk	from on	e store to	object	t the energy		W = I	Fs	Electrical energy (2025)	$\leq$	Ught energy (10 %)				Units
			1 Jou	le of energy	Powe	er = energy t	ransfer ÷ time	_				Energy ( th	KE, EPE, GPE, ermal)	Joules (J)
Power	I he r energy	The rate of per second =		per second = 1		P = E ÷ t ver = work done ÷ time,			Thermal en (901)	ergy	_/_/	V	elocity	Metres per second (m/s)
			wat	t of power		$P = W \div t$				HIGH	IER: When an	Sprin	g constant	Newton per metre (N/m,
				Units		Useful	Energy trans	ferred and	ר/	is trans	sferred by doing	Ex	tension	Metres (m)
			Joules	; per Kiloaram	dearee	energy	use	ed .			work.		Mass	Kilogram (Kg)
Specifi	c Heat Ca	apacity		Celsius (J/Kg°	c)	Wasted	Dissipated	l energy,				Gravitation	al field strength	Newton per kilogram (N/k
Temperature change		hange	De	grees Celsius	(°C)	energy	stored less	s usefully		Work	done = Force X	ŀ	leight	Metres (m)
v	/ork done	e		Joules (J)		Profix	Multiple	Standard		dist	ance moved			
	Force			Newton (N)		FICIA	wuttpie	form	_					
Dist	ance mov	ved		Metre (m)		Kilo	1000	10 <sup>3</sup>	_	Friction	nal forces cause	Reducing	friction - using w	heels, applying
	Power			Watts (W)		Mega	1000 000	106	_	therma	al energy. This is	lubrica	tion. Reducing air	r resistance –
Time						Giga	100 000 000	10 <sup>9</sup>	1	1	wastad	1 1	S	······································

# Knowledge Organiser

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34

PiXL Partners in excellence	Transport Petrol, diesel, kerose produced from oil	ne Used in cars, trains and planes.	Power station – NB: You need to An energy resource is burnt to ma	understand the principle behind generating electricity. ake steam to drive a turbine which drives the generator.		
Using renewable energy will need to increase to meet demand.	Heating         Gas and electricity           Electricity         Most generated by fossil fuels	Used in buildings. Used to power most devices.	Power station Generates electricity	weleasing releasing rmal energy Water boils Water boils into steam Steam turns turbine		
Renewable energy     Fossil fuel     Energies       makes up about 20% of energy consumption.     reserves are     in		Energy demand is increasing as opulation increases.	National Grid UK	wer station Step-up transformer Pylons Step-down House, factory		
Non-renewable energy resourceThese will run out. It is a finite reserve. It cannot be replenished.e.g. Fossi and gas) a fuels.		ossil fuels (coal, oil as) and nuclear	g fuels Global	AQA ENERGY -		
Renewable energy resource	These will never run out. It is an infinite reserve. It can be replenished.e.g. S Wind Biom	olar, Tides, Waves, Geothermal, ass, Hydroelectric	ergy burces Resources	part 2		
Energy resource	How it works	Uses	Positive	Negative		
Fossil Fuels (coal, oil and gas)	Burnt to release thermal energy use to turn water into steam to turn turbines	d Generating electricity, heating and transport	Provides most of the UK energy. Large reserves. Cheap to extract. Used in transport, heating and making electricity. Easy to transport.	Non-renewable. Burning coal and oil releases sulfur dioxide. When mixed with rain makes acid rain. Acid rain damages building and kills plants. Burning fossil fuels releases carbon dioxide which contributes to global warming. Serious environmental damage if oil spilt.		
Nuclear	Nuclear fission process	Generating electricity	No greenhouse gases produced. Lots of energy produced from small amounts of fuel.	Non-renewable. Dangers of radioactive materials being released into air or water. Nuclear sites need high levels of security. Start up costs and decommission costs very expensive. Toxic waste needs careful storing.		
Biofuel	Plant matter burnt to release therm energy	al Transport and generating electricity	Renewable. As plants grow, they remove carbon dioxide. They are 'carbon neutral'.	Large areas of land needed to grow fuel crops. Habitats destroyed and food not grown. Emits carbon dioxide when burnt thus adding to greenhouse gases and global warming.		
Tides	Every day tides rise and fall, so generation of electricity can be predicted	Generating electricity	Renewable. Predictable due to consistency of tides. No greenhouse gases produced.	Expensive to set up. A dam like structure is built across an estuary, altering habitats and causing problems for ships and boats.		
Waves	Up and down motion turns turbine	Generating electricity	Renewable. No waste products.	Can be unreliable depends on wave output as large waves can stop the pistons working.		
Hydroelectric	Falling water spins a turbine	Generating electricity	Renewable. No waste products.	Habitats destroyed when dam is built.		
Wind	Movement causes turbine to spin which turns a generator	Generating electricity	Renewable. No waste products.	Unreliable – wind varies. Visual and noise pollution. Dangerous to migrating birds.		
Solar	Directly heats objects in solar panels sunlight captured in photovoltaic ce	or Generating electricity and some heating	Renewable. No waste products.	Making and installing solar panels expensive. Unreliable due to light intensity.		
Geothermal	Hot rocks under the ground heats water to produce steam to turn turk	Generating electricity and heating	Renewable. Clean. No greenhouse gases produced.	Limited to a small number of countries. Geothermal power stations can cause earthquake tremors.		

better hope – brighter future

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36

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Aspiration Creativity Character

37

### **Knowledge** Organiser

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38



SPANISH R

39

Technology, free time & healthy lifestyle (Foundation) - THEME 1

1. ¿Usas mucl	h <b>o el internet?</b> (Do you	use the inte	ernet much?) <u>Quizle</u>	<u>t list</u>	2. ¿Qué piensas de las redes	sociales? (What do y	ou think of social media?) <u>Ouizlet list</u>
Siempre (Always) Todos los días (Every day) De vez en cuando (From time to time) A veces (Sometimes)	uso (Twitter/ Facebook/) (I use (Twitter/ Facebook/) veo videos en TikTok (I watch videos on TikTok) subo fotos a mi cuenta de Instagram (I upload photos to my Instagram account) descargo música (I download music) hago la compra por Internet (I do online shopping)	pero nunca (but I never) pero ya no (but I no longer)	Mando mensajes (I send messages) Miro las redes sociales (I check social media) Descargo aplicaciones (I download apps) escucho música (I listen music) hago los deberes (I do homework)	porque es una pérdida de tiempo (because it's a waste of time) porque gasta mucha batería (because it wastes a lot of battery) porque está pasado de moda (because it's old fashioned) iporque mi (padre) no me	Pienso que / Opino que (I think that) Mi (madre/padre/abuela/abuel o) piensa que (My (mum/dad/grandma/grandpa ) thinks that) Diría que (I would say that) Desde mi punto de vista (From my point of view)	las redes sociales son (social media is) las redes sociales, por ejemplo (TikTok), son (social media, for example (TikTok), is)	útiles (useful) divertidas (fun) peligrosas (dangerous) Entretenidas (entertaining) una pérdida de tiempo (a waste of time)
3 <sup>rd</sup> person (DPR8): En mi casa, casi nadie (In my house, almost nobody) Mi madre ya no (My mum no longer)	ve videos en TikTok / Instagram (watches videos on TikTo Instagram account) usa Twitter (uses Twitter) hace la compra por Inte (does online shopping)	sube fotos a ok) / (upload: / descarga / (download rnet / escuch / (listen:	s <b>su cuenta de</b> s photos to their <b>música</b> ds music) <b>na música</b> s to music)	(because my (dad) doesn't let me!) porque mi (madre) piensa que pasamos demasiado tiempo en Internet (because my (mum) thinks that we spend too much time on the internet)		las redes sociales (social media) las redes sociales, por ejemplo (Facebook) (social media, for example (Facebook),)	Están de moda (are on trend/ in fashion) Están pasadas de moda (are outdated/ out of fashion) me permiten ver vídeos graciosos (they allow me to watch funny videos) Me permiten descubrir música (they allow me to discover new music) me dan la oportunidad de ver fotos de mi familia (they give me the opportunity to watch pictures of my family)
Top band language -Si fuera posible, me -Porque puede causa -mi hermano y yo de messages	gustaría usar If it were ar problemas de acoso be scargamos aplicaciones/ r	possible, I wo cause it can o mandamos n	ould like to use more cause bullying problem nensajes my brother c	15 Ind I download app / send	Top band language -Las redes sociales pueden ser -Hace cinco años tenía una op had a different opinion about s	r <b>muy estresantes</b> soc inión diferente sobre social media	tial media can be very stressful I <b>as redes sociales</b> five years ago I

### Technology, free time & healthy lifestyle (Foundation) - THEME 1

3. ¿Qué haces en tu tier	3. ¿Qué haces en tu tiempo libre? (What do you do in your free time?)/ ¿Qué te gusta comer? (What do you like to eat?) Quizlet list									
En mi tiempo libre (In my free time) Los fines de semana (On the weekends) Cuando tengo tiempo (When I have time)	suelo (I usually) mis amigos y yo solemos (my friends and I usually) Mi amigo suele (my friend usually)	bailar en clases de zumba (dance in zumba classes) jugar al fútbol/al baloncesto (play football/basketball) cantar en un coro (sing in a choir) leer novelas (read novels)			porqueme permitedado queit allows meya queme permitevisto queit allows mepuesto queit allows me(because)me quita elit takes ave		e relajarme e to relax e olvidarme de todo e to forget everything estrés av my stress			
Sin embargo en el futuro (However, in the future)	<b>me gustaría</b> I'd like		leer novelas (read novels) hacer deportes acuáticos (do water sports) ir al cine (go to the cinema) pintar (to paint) / nadar (swim) ayudar con las tareas domésticas (help with the housework) pasear al perro (to walk the dog)		<b>y opino que</b> (and I think that)	me hace reír / llorar it makes me laugh / cry me da la oportunidad de pasar tiempo con mis amigos/mi familia It gives me the chance to spend time with my friends/my family) me da la oportunidad de mantenerme en forma it gives me the opportunity to keep fit				
Personalmente me gusta (Personally, I like)	la comida italiana (Italian food) La comida nigeriana (Nigerian food) La comida española (Spanish food)		ya que creo	<b>que es</b> (because I think it is)	deliciosa (delicious) sabrosa (tasty) picante (spicy)	Top band language: -Prefiero la comida <u>italiana</u> pero mi mejor amigo prefiere la comida <u>mexicana</u> (I prefer Italian food but my best friend prefers Mexican food) -La semana pasada comí (Last week I ate) -En el futuro me gustaría probar (In the future, I would like to try)				
<b>A mi hermano le gusta</b> (My brother likes)	La comida china (Chinese fo La comida tailandesa (Thai	food)	<b>puesto que piensa que es</b> (because he /she thinks that it is)		fresca (fresh)					
4. ¿Qué deporte harás para r	nantenerte en forma en el fu	<b>turo?</b> (Wha	t sport will you	u do to keep fit in the future?) <u>Qu</u>	<u>uizlet list</u>					
Para mantenerme en forma (To keen fit)	el lunes (on Monday) el martes (on Tuesday) el miércoles (on	jugaré al	(I will play)	tenis (tennis), fútbol (Football) voleibol, bádminton, ping por	tenis (tennis), fútbol (Football), baloncesto (basketball), golf, voleibol, bádminton, ping pong, béisbol vela (sailing), alpinismo (hiking), natación (swimming), equitación (horse riding), atletismo (athletics), esquí (ski), ciclismo (cycling), patinaje (skating), pesca (fishing), piragüismo (canoeing), gimnasia rítmica (gymnastics), boxeo (boxing)		ya que me permite pasar tiempo con mis amigos (because it allows me to spend time with my friends)			
(To keep Jit) Para mejorar mi salud (To improve my health) Por la mañana (In the morning) Por la tarde	el miercoles (on Wednesday) el jueves (on Thursday) el viernes (on Friday) el sábado (on Saturday)	haré (/ )	will do <b>)</b>	vela (sailing), alpinismo (hiking equitación (horse riding), atlet ciclismo (cycling), patinaje (ska (canoeing), gimnasia rítmica (g			ya que me da la oportunidad de relajarme (because it gives me the opportunity to relax) puesto que me ayuda a mantenerme en forma (because it helps me to keep in shape)			
(In the afternoon)		iré (/ will	go <b>)</b>	al gimnasio (to the gym)/ a la piscina (to the swimming po		g pool)				

Top band language:

**Si tuviera la oportunidad, me gustaría practicar...** (*If I had the opportunity, I would like to practice*)

A mi hermana Eva le encantaría practicar... (My sister Eva would love to practice...) porque le permite descansar/ mejorar su salud (because it allows her/him to rest/improve his/her health)

# Aspiration Creativity Character

41

### Technology, free time & healthy lifestyle (Higher) - THEME 1

Siempre (Always) uso (I use) Todos los días (Every day) De vez en cuando (From time to time) A veces (Sometimes) Cuando no estoy estudiando (When I am not studying) veo videos descargo m subo fotos hago Ia cor mando foto		TikTok para aprender bailes nuevos. (TikTok to learn new dances) Youtube para ver vídeos graciosos. (Youtube to watch funny videos) Spotify para descubrir música. (Spotify to discover music) Facebook para ver fotos de mi familia. (Facebook to see pictures of my family) Snapchat para subir fotos. (Snapchat to upload pictures)	Aunque (Although) Sin embargo (However)	<ul> <li>cuando era joven usaba</li> <li>When I was young, I used to use</li> <li>cuando era joven, me</li> <li>gustaba usar</li> <li>When I was young, I liked using</li> <li>Hace cinco años solía</li> <li>usar</li> <li>Five years ago, I used to use</li> </ul>	TikTok para aprender bailes nuevos (TikTok to learn new dances) Youtube para ver vídeos graciosos (Youtube to watch funny videos) Spotify para descubrir música (Spotify to discover music) Facebook para ver fotos de mi familia (Facebook to see pictures of my family) Snapchat para subir fotos (Snapchat to upload pictures)
		en TikTok. (I watch videos on TikTok) úsica. (I download music) a mi cuenta de Instagram. (I upload photos to my Instagram account) npra por Internet. (I do online shopping) os a mis amigos en Snapchat. (I send photos to my friends on Snapchat)		Top band language -Si fuera posible, me gustaría usar If it were possible, I would like to use more -Porque puede causar problemas de acoso because it can cause bullying problems -Me habría gustado usar I would have liked to use	
. ¿Que opinas de las r	edes sociales	? (What do you think about social media?) Quizlet link			
Pienso que las redes so (I think that social medi	edes sociales ciales son a is)	? (What do you think about social media?) <u>Quizlet link</u> útiles (useful)	3 <sup>rd</sup> person:		Top band language:

### Technology, free time & healthy lifestyle (Higher) - THEME 1

En mi tiempo libre (In my free time) Los fines de semana (On the weekends) Cuando tengo tiempo (When I have time) Sin embargo en el futuro (However, in the future)	suelo (I usually) me mola / me flipa (I really like) mis amigos y yo solemos (my friends and I usually) Mi amigo suele (my friend usually) me gustaría I'd like Me encantaría I'd love	bailar en clases de zumba (dance in zumba classes) jugar al fútbol/al baloncesto (play football/basketball) cantar en un coro (sing in a choir) leer novelas (read novels) hacer deportes acuáticos (do water sports) ir al cine (go to the cinema) nadar en la piscina local (swim in the local swimming pool) ayudar con las tareas domésticas (help with the housework) pasear al perro (to walk the dog)	porque dado que ya que visto que puesto que (because) y opino que (and I think that)	<ul> <li>me permite relajarme it allows me to relax / le permite relajarse it allows him/her to relax</li> <li>me permite olvidarme de todo it allows me to forget everything</li> <li>le permite olvidarse de todo it allows him/her to forget everything</li> <li>me quita el estrés it takes away my stress /le quita el estrés it takes his/her stress way</li> <li>me hace reír / llorar it makes me laugh / cry / le hace reír/llorar it makes him/her</li> <li>laugh/cry</li> <li>me da la oportunidad de pasar tiempo con mis amigos/mi familia (It gives me the chance to spend time with my friends/my family)</li> <li>me da la oportunidad de mantenerme en forma (it gives me the opportunity to keep fit)</li> </ul>				
Desde mi punto de vista, me encanta (from my point of view, I love)	la comida italiana (Italian food) La comida nigeriana (Nigerian food) La comida española (Spanish food) La comida india (Indian food) La comida china (Chinese food)	ya que creo que es (because I think it is) porque en mi opinión es (because in my opinion it is)	deliciosa (delicious) sabrosa (tasty) picante (spicy) salada (salty)	Top band language: -Prefiero la comida <u>italiana</u> pero mi mejor amigo prefiere la comida <u>mexicana</u> (I prefer Italian food but my best friend prefers Mexican food) -La semana pasada comí (Last week Late)				
A mi hermano le gusta (My brother likes)	La comida tailandesa (Thai food)	<pre>puesto que piensa que es (because he /she thinks that it is)</pre>	fresca (fresh)	-En el futuro me gustaría probar (In the future, I would like to try)				

4. ¿Qué deporte harás para mantenerte en forma en el futuro? (What sport will you do to keep fit in the future?) <u>Quizlet list</u>									
Para mantenerme en forma ( <i>To keep fit</i> ) Porque me preocupa mi salud	el lunes (on Monday) el martes (on Tuesday) el miércoles	jugaré al (I will play) probaré el (I will try)	tenis (tennis), fútbol (Football), baloncesto (basketball) , golf, voleibol, bádminton, ping pong, béisbol	ya que me permite pasar tiempo con mis amigos (because it allows me to spend time with my friends) ya que me da la oportunidad de relaiarme					
(Because I worry about my health) Para mejorar mi salud (To improve my health) Por la mañana (In the morning)	(on Wednesday) el jueves (on Thursday) el viernes (on Friday) el sábado (on Saturday) el domingo (on Sunday)	haré (/ will do) probaré (el/la) (/ will try)	vela (sailing), alpinismo (hiking), natación (swimming), equitación (horse riding), atletismo (athletics), esquí (ski), ciclismo (cycling), patinaje (skating), pesca (fishing), piragüismo (canoeing), gimnasia rítmica (gymnastics), boxeo (boxing)	(because it gives me the opportunity to relax) puesto que me ayuda a mantenerme en forma (because it helps me to keep in shape) ya que me permite aprender nuevas habilidades (because it allows me to learn new skills)					
Por la tarde (In the afternoon)		iré (I will go)	al gimnasio (to the gym)/ a la piscina (to the swimming pool)	ya que tiene ventajas para mi salud (because it allow has advantages for my health)					

### Top band language):

Si tuviera la oportunidad, me gustaría practicar... (If I had the opportunity, I would like to practice)

A mi hermana Eva le encantaría practicar... (My sister Eva would love to practice) porque le permite descansar/ mejorar su salud (because it allows her/him to rest/ improve his/her health)

# Aspiration Creativity Character

43

## **Haggerston School**



### **Knowledge** Organiser

Classification of Fibres

A **fibre** is fine like hair in structure. Fibres that are **twisted** together are called thread/yarn. Fabric is cloth that is made from fibres or yarn. Depending on where they come from and how they are made, gives the fabric different characteristics and therefore suits different functions. Fibres are split into two categories:

**Natural Fibres** 

**Manufactured Fibres** 

Spinnable substances manufactured by man

Spinnable substances existing in **nature** 

Animal	Plant	Synthetic	Regenerated
Silk Wool	Cotton - Cotton Plant Calico - Cotton Plant Linen - Flax Plant Hessian - Jute Plant	Synthetic fibres are made from processed chemicals Polyester Nylon Lycra	Regenerated fibers are produced from polymers (fibres) occurring in nature (e.g., viscose, rayon from the cellulose in wood pulp) Rayon Viscose

\*Felt can be made using Synthetic fibres such as acrylic or Natural fibres such as animal fur \*\* Leather is not a fabric as it is not made up of fibres or yarns - it is a skin of an animal

### **Construction of Fabric**



Woven fabrics are made interlacing two sets of yarn, the warp and weft

Different coloured yarns can be woven together to create a pattern. Woven fabric is more structured and will hold its shape, that is is why it is often used for shirts, blazers/suits and trousers.



Fabrics are made from varns, which are held

Knitted fabrics are made by interlocking one or more yarns together using loops As a result of the interlocking loops, knitted fabrics are more flexible and elastic, that is why they are often used for socks, jumpers and sports clothing that allows movement

# **Bonded Fabric**

Bonded fabrics are webs of fibres which are held together by glue, stitches or heat

There are two types of Bonded Fabric - Felted and Non Woven Fabrics. Both are formed by through compressions but in felted fabrics no glue is used

### Properties and characteristics of fibres and fabrics.

Fabrics and fibres have different characteristics (soft, smooth, fluffy, shiny) and properties - what the fabric can do/how it can behave. For instance **wool** is heat insulating and has some elasticity

(property) but it is soft to feel (characteristics).

Absorbency: A material that soaks up liquid or moisture Water-Repellent: A material that is completely resistant to water as a result of being hydrophobic

**Strength:** The behaviour of materials when forces are applied to them (pulled, tension, stress)

**Durability:** Long lasting and hard wearing

Anti-static: A material that does not build-up of static electricity Insulation: Prevention or reduction of heat loss

Elasticity: How much a material can stretch and then return to its original position

**Resistance to:** How well a material can stop or prevent reacting to something - eg. bleach, sunlight, chemicals, creasing Flammability: The ability to ignite and burns rapidly with a flame

	Properties/Characteristics	Uses
Silk	Silk has a smooth texture and is one of the strongest natural fibres. It is also warm and crease resistant. However, it can be static and needs to be dry cleaned.	Evening wear, ties and scarves.
Wool	Heat insulating, soft, however can shrink when washed and it is not as durable as other natural fabrics like cotton and silk	Warm Clothing, suits, blankets and furniture upholstery
Linen	Linen is strong and cool to wear, but not very crease resistant.	tea towels, table cloths and summer clothing.
Cotton	Like linen, cotton is strong and cool to wear, but not very crease resistant.	jeans, shirts, T-shirts, sheets and towels.
Polyester	Polyester tends to feel slippery and silky. It can be blended with other fabrics, for example cotton, to provide more stretch or to reduce skin irritation.	All sorts of clothing, often as part of a blended fabric.
Nylon	lightweight, strong, durable and resistant to damage. It takes dye easily and so is available in a wide range of colours.	swimwear, tights and outdoor clothing and equipment such as tents.
Rayon atin is made from Rayon	Rayon absorbs moisture so it is cool but warm and washes well. However, it is not very strong, is highly flammable and easily damaged.	blouses, dresses, suit linings, jackets and hats.

### **SPaG**

### **Grammar: Write in sentences**

A sentence is a group of words that make sense. Sentences start with a capital letter and end with a full stop, question mark or exclamation mark. All sentences contain **clauses.** You should try to use a range of sentences when writing. There are three main types of sentences.

Simple sentence: A sentence containing one main clause with a subject and a verb.	Connectives and Conjunctions	
He reads.	Cause	Because
Literacy is important.	And	So
	Effect	Consequently
<u>Compound sentence</u> : Two simple sentences joined with a <u>conjunction</u> . Both of these simple sentences would make sense on	Lineet	Therefore
their own. Varying conjunctions makes your writing more interesting.		Thus
He read his book <u>because</u> it was written by his favourite author.	Addition	And
Literacy is important so students had an assembly about reading.		Also
		In addition
Complex sentence: A longer sentence containing a main clause and one or more subordinate clause (s) used to add more detail.		Further (more)
The main clause makes sense on its own. However a subordinate clause would not make sense on its own, it needs the main clause	Comparing	Whereas
to make sense of its own. However, a subordinate clause would not make sense of its own, it needs the main clause		However
to make sense. The subordinate clause is separated by a comma (s) and/or conjunction. The clause can go at the beginning, middle		Similarly
or end of the sentence.		Yet
He read his book <u>even though it was late.</u>		As with/ equally/ Likewise
Even though it was late, he read his book.	Sequencing	Firstly
He read his book, <u>even though it was late</u> , because it was written by his favourite author.		Initially
		Then
How can you develop your sentences?		Subsequently
		Finally
1 Start sentences in different ways. For example, you can start sentences with adjectives, adverts or vertes		After
Adjective: Funny books are my favourite!	Emphasis	Importantly
Adverb: Regularly reading helps me develop a reading habit.		Significantly
Verb: Looking at the front cover is a good way to choose a reading book.		In particular
		Indeed
2. Use a range of <b>punctuation</b> .	Subordinate	Who, despite, until, if,
3 Nominalisation		while, as, although, even
3. Nominalisation is the noun form of verbs verbs become concents rather than actions. Nominalisation is often used in academic		though, that, which
writing For example:		
It is important to <b>read</b> because it helps you in lots of ways		
Becomes: <b>Reading</b> is beneficial in many ways.		
Germany <b>invaded</b> Poland in 1939. This was the immediate cause of the Second World War breaking out.	Lange	water Cal
Becomes: Germany's <b>invasion</b> of Poland in 1939 was the immediate cause of the outbreak of the Second World War.	пассе	rston scho

45



# Year 9 Knowledge Organiser



