

Year 8 Knowledge Organiser Term 3

2024

# Knowledge Organiser - Guidance

- You must bring your Knowledge Planner to school every day in your school bag.
- You should place your Knowledge Planner on your desk at the start of every lesson so that you can refer to it when instructed by your teacher.
- If you lose your Knowledge Planner, you will need to purchase a replacement one from Student Services.
- In the Study Centre, you will use your Knowledge Planner to study the relevant subject's Knowledge Organiser and <u>learn</u> the information provided.
- Use your blue exercise book to make notes to help revise and learn the information provided in each Knowledge Organiser.

# KS3 Knowledge Organiser - Contents

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# Term 3

#### **Bridget Riley**

When Bridget Riley first exhibited her black and white abstract paintings in the 1960s, people were amazed at how they seemed to move. It was like she was painting with electricity and the patterns were live wires!

This style of painting is known as op art. Op artists put colours, shapes and patterns together in clever ways to create an optical illusion. This can make an image look like its moving!

Bridget Riley was born in 1931 in London, but when World War II broke out she left the city and moved to Cornwall. She would walk along the coastline and explore the caves where she would sit and watch the reflections in rock pools. She also liked looking at the sea and how the light made it change colour during the day.

She started experimenting with colour, putting warm and cold colours together like red and blue to make the paintings vibrant. She travelled to many different countries, like Egypt and India, and looked closely at the way the artists in those countries used colour. She was interested in the way hot countries used very bright colours to stop them fading in the sun.



#### Self Quiz:

- 1. Can you explain what op art is?
- 2. What was Riley's work influenced by?
- 3. Can you explain what abstract art is?
- 4. Can you explain how Riley's work is abstract?
- 5. Can you create a list of different patterns and shapes that you see in the city around you or in nature that could be used as inspiration for a piece of op art?

#### Key term: Abstract

Abstract art is art that does not have any recognisable subject matter (what is in the artwork). The truth is, abstract art is not "about nothing". It is about **form, colour, line, texture, pattern, composition** (layout) and **process** (how the work is made). These are the formal qualities of artwork, because they describe what the art looks like and how it is created. Abstract art is an exploration of these formal qualities.







#### Practical application of art history:

- 1. Can you draw one of Riley's artworks with a pencil?
- 2. Can you recreate one of Riley's artworks using pen?
- 3. Can you create a tonal drawing of the photo of two zebras?
- 4. Can you create your own op art pattern inspired by any shapes or patterns that you can see around the room?
- 5. Write in full sentences WWW and EBI.

# 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 guotes.

#### 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	x < 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



# **Aspiration Creativity Character**

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### 2.4 BOOLEAN LOGIC



## Year 8 Python Knowledge Organiser

#### Programming with Python

Eile Edit Format Bun Options Windows Help

print("Welcome to PGO Security Systems")

password = input("Enter your password: ")

- if password == "abcd1234"; print("Access Granted")
- else: print("Access Denied")

input("Press ENTER to exit the program")

#### Python's Development Environment Called IDLE – Integrated Development

Environment

#### Two Modes:

Interactive Mode lets you see your results as you type them.

Script Mode lets you save your program and run it again later.

#### Writing error-free code

When writing **programs**, **code** should be as legible and error free as possible. **Debugging** helps keep **code** free of **errors** and documenting helps keep **code** clear enough to read.

#### Syntax errors

Syntax is the spelling and grammar of a programming language. In programming, a syntax error occurs when:

- there is a spelling mistake.
- there is a grammatical mistake.

#### Data Types

String - holds alphanumeric data as text Integer - holds whole numbers Float - holds numbers with a decimal point Boolean - holds either 'True' or 'False'

#### **Defining Variable Data Types**

Python automatically assigns a data type to a variable. You can override this to manually define or change the data type using:

str()	,	int()	or	float()

#### Selection

Ln: 1 Col: 0

When designing **programs**, there are often points where a **decision** must be made. This **decision** is known as **selection** and is implemented in **programming** using **IF statements**.

Operator	Meaning	Example	Evaluates to
==	equal to	7==7	True
!=	not equal to	6!=7	True
>	Greater than	7>6	True
<	Less than	5<8	True
>=	Greater than or equal to	6>=8	False
<=	Less than or equal to	7<=7	True

#### Iteration

Algorithms consist of steps that are carried out (performed) one after another. Sometimes an algorithm needs to repeat certain steps until told to stop or until a particular condition has been met.

Iteration is the process of repeating steps.

#### Variables

A variable is a location in memory in which you can temporarily store text or numbers. It is used like an empty box or the Memory function on a calculator. You can choose a name for the box (the "variable name") and change its contents in your program.

#### Using a Variable (firstname)

print ("What is your name?")
firstname = input()
print ("Hello,",firstname)



#### Functions

**Functions** are special keywords that do a specific job. **Functions** appear in purple.

print() and input() are examples of functions

print ("What is your name?")
firstname = input()
print ("Hello,",firstname)

#### Adding Comments

**Comments** are useful to help understand your **code.** They will not affect the way a **program** runs. **Comments** appear in red and have a

#### preceding # symbol.

#firstname is a variable
print ("What is your name?")
firstname = input()
print ("Hello,",firstname)



MACRONUTRIENTS

MICRONUTRIENTS

# **Cooking & Nutrition**

	Nutrient	Function	Source
	Carbohydrates	-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.	Nutrients
	Fibre	-Prevents constipation -Absorbs poisonous waste from digestive food -Stays undigested but helps move digested food through our system	
12 mana	Protein	-Helps repair and grow new cells (muscles and body tissue) -Provides some energy	Starte .
	Fat	-Insulates the body from the cold -Cushions your bones and organs from any damage caused by knocks. -Stores energy	
	Vitamins	Unlike the other nutrients, they are only needed in small amounts. 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	Unlike the other nutrients, they are only needed in small amounts. 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	Button

**Factors affecting food choice:** When, how, who and what we eat can all be affected by a number of factors; health, **medical issues**, **stage of life**, personal preference, family, religion, social media, cost, availability, cultural celebrations, lifestyle, ethical and environmental implications etc.

#### Medical Issues

Lactose Intolerance: The inability to digest the sugar Lactose found in Dairy based foods **Gluten Intolerance:** The inability to digest the protein Gluten found in Wheat based foods Coeliac Disease: Adverse reaction to **gluten** causing the small intestine to become inflamed. **Obesity:** The state of being overweight, having too much body fat as a result of over eating and not enough exercise. Being obese can result in High **Cholesterol**, this refers to the amount of fat in the veins. As the fat builds up it makes it more difficult for the blood to flow, this is described as **Blood Pressure**. Having high blood pressure or cholesterol increases the risk of an heart attack.

The older you get it is more difficult to manage obesity. Anaemia: Condition where the body does not have enough iron and therefore does not produce enough red blood cells. More common in females (teenage girls and pregnant women) Osteoporosis: Condition that causes the bones to weaken and become fragile. More common in

older people. **Type 2 Diabetes:** Issues producing Insulin which controls the blood sugar levels





**Babies:** Initially fed Milk from either their mother or formula milk which contains the essential nutrients particularly fat and calcium. After 6 months approx., Babies are given soft pureed food to help swallowing and digestion.

**Children 1-4:** Meals should be small and regular to sustain energy use; high in protein, fat, complex carbohydrates but low in fibre. **Children 5- 12:** Should have a healthy

balanced diet (following the EWG) and be active. It is at this stage that children can become obese.

**Teenagers:** During the change from child to adult muscles begin to grow more rapidly, therefore plenty of protein is needed. Girls may need more Iron as they lose blood during menstruation.

Adults: Need to follow a healthy lifestyle; keeping to 2000 Cals F/2500 Cals M, avoid drinking alcohol, smoking or taking drugs. Exercise should be regular and varied. Old People: Protein to maintain muscles, calcium to maintain bones and teeth, Vitamin D to maintain skin and absorb calcium, Iron to avoid anaemia, fibre & water to maintain a healthy digestive system.

#### **Food Spoilage**

When a food deteriorates in quality or becomes unsafe to eat it is called spoiled. This can happen through natural decay, bacterial growth or **contamination**. If the conditions are correct the rate of spoilage will increase.

Bacteria is harmful micro-organism make food dangerous to eat. To multiply (and become dangerous) bacteria needs enough food and moisture, the right temperature and enough time. To stop the multiplying of bacteria, you must limit these conditions.

You can use the 4 CS to do this:

Cross Contamination: preventing bacteria from spreading across different surfaces eg. bacteria from raw meat spreading to ready to eat food. preventing raw foods (meat) from contacting ready to **Cooking:** Kills the bacteria

Chilling: Keeps it dormant (not active) Cleaning: Kills bacteria, but also prevents food and moisture from being available.

As well as drying hands and surfaces effectively as this takes away the moisture.

**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.





#### Food & The Wider World: Seasonal Foods

Seasonal Foods are foods that are ready to harvest and eat at certain times of the year eg. Strawberries in the UK in Summer. Seasonal foods are better in nutritional guality, taste and texture and cheaper. Buying seasonal foods reducing **food miles** and **carbon footprint** as you are using food that is naturally available within your country, rather than importing it from other countries. In the UK many foods are imported as they cannot grow in the UK climate and soil conditions.

Food Miles refers to the distance food has travelled from farm to fork. Food that has travelled further has a higher carbon footprint



Farmer Markets are markets that sell local goods from local farmers and suppliers. Produce is most likely to be organic, **seasonal**, sold/stored in less packaging but also fresher and better in quality and nutritional value. Shopping locally will reduce food miles/carbon footprint as it is using local suppliers.



Rubbing in

technique



Carbon Footprint refers to the amount Carbon

dioxide created and released into the

pollution, causing CO2 to be released.



Jamaican Patties, Shortbread Biscuits, the toppings of an apple crumble and Mini Quiches are all crumbly in texture and buttery in flavour.

This is because they all contain high amounts of fat - butter.

When flour is mixed with water, gluten is formed. Gluten is needed in bread making to give a stretchy dough and an overall chewy texture.

HOWEVER, when butter is rubbed into flour (in the rubbing in technique) the fat from the butter coats the flour and acts like a waterproof coating. This means that less gluten is formed or shorter strands of gluten are formed.

Butter (or FAT) is used as a shortener when making pastry and other baked goods to create a short crumbly texture. That is why shortcrust pastry and shortbread biscuits have 'short' in their name



**Aspiration Creativity Character** 







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#### 'Lord Of The Flies'

#### Lord of the Flies - Plot Summary

The play begins when a group of school boys are on a plane leaving Britain. The plane is shot down and eventually crashes leaving the boys stranded on a desert island with no adults. At first the boys are excited to explore the island but over time, when they start to realise they may not be rescued, the boys begin to argue and the island becomes divided. Two rival gangs are formed with two very different leaders.

#### Ralph and his gang

**Ralph** is voted leader of the camp by the boys. **Ralph** and his friend **Piggy** discover a conch shell on the beach and realise it could be used as a horn to summon the other boys. When all the boys are together Ralph suggests that if someone wants to speak they must hold the conch shell so that everyone is listened to. Ralph instructs his gang to light a signal fire to track the attention of passing ships. He also suggests building huts as shelter.

"There was a stillness about Ralph as he sat that marked him out: there was his size, and appearance; and most obscurely, yet most powerfully, there was his conch."

"Fair boy" with "mildness of mouth"

"Ralph wept for the end of innocence, the darkness of man's heart."

#### Jack and his gang

Jack was annoyed that Ralph was voted leader as he wanted to be leader but no one chose him. He rebels against Ralph's rules encouraging the boys to have fun and play. When a passing ship fails to see the smoke signal because Jack and his friends have not tended the fire, Ralph and Jack argue. Jack, fed up of Ralph's moaning, declares himself as a new leader of a tribe of hunters and organises a violent hunt where the boys slaughter a pig and smear its blood on their faces. This savage behaviour eventually escalates with tragic consequences.

"I ought to be chief," said Jack with a simple arrogance, "because I'm head boy."

"Forget the rules! We're strong, we hunt! If there's a beast, we'll hunt it down! We'll close in and beat and beat!"

"We had a smashing time. We hit a pig. I cut the pig's throat."

#### **Context**

William Golding wrote 'Lord of the Flies' in 1954, not long after WW2. The novel is symbolic exploring what happens when humans are free from the structure of civilisation and society. Golding highlights the struggle between being civilised, conforming to norms, obeying rules and behaving morally and a savage instinct and impulse that makes us power hungry, selfish and even leads to extreme violence and evil.

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

Make sure you plot, characters and the context.

#### <u>Task 1</u>

Having read about Ralph and Jack how would you describe their personalities and style of leadership? Use at least three adjectives (describing words) for each character.

#### Task 2

'Lord of the Flies' is symbolic. Can you make links between what happens to the boys in the novel and the wider world?









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#### Haggerston School

Materials and Motals				Material Cha	aracteristics		
				Hardness	resist cutting a	nd indentations to it	s surface
				Toughness	Ability to withs	stand shock	
Metal Rule Try Square			C	Strength	The ability to v crushed or con	vithstand being pulle npressed or twisted.	ed or stretched,
				Elasticity	Ability to be st	retched and return t	o its original size
				Flexibility	The ability to b back to its orig	end without breakir inal shape.	ng and then spring
24		E		Impact Resistant	Ability to resist	sudden shocks	
Sand Paper Tools & Equipment			Common Wood Joints A: Comb/Finger Joint B: End halving joint C: Dovetail joint	Strength to Weight Ratio	Measure of str is a light weigh having a high s	ength to weight, for t material but is stro trength-to-weight ra	instance Aluminium ng. Therefore tio
	F	G	D: Dowel Joint E: Mitre Joint	Ductility	Ability to be st breaking	retched like the leng	th of wire without
Wet & Dry Paper			F: Mortise & Tenon E: Tee halving	Malleability	The ability to b shape without	e hammered, rolled breaking	or pressed into
				Durability	Able to last a lo	ong time	
Belt Sander	Hardwoods	Softwoods	Manufact Usage Type of wood	ured boards (man	made woods)	Computer Aid	ed Design
	A unit strang wood High quality					Advantages of CAD	Disadvantages of CAD
	Light brown in furniture colour. Beams used in buildings	Spruce Creamy-white colour Has small hard knots Not very durable	General indoor work Used mainly for kitchens and	mooth even surface. asily machined and painted or stained. Also available in water and fire-	furniture and interior panelling due to its machining qualities.	Ideas can be drawn and developed quickly	Expensive to set up
	American White Oak with Veneers		bedrooms MDF medium/density fibre board	esistant forms	Often veneered or painted	Designs can be viewed from all angles	Needs a skilled workforce
	An easy to work Indoor furniture Shop fittings	Scots Pine A straight-grained wood, but knotty. Light cream/	Readily available for DIY	A very strong board which s constructed of layers of	Structural panelling in building construction.	and with a range of materials	
Needle File	Reddish brown in Bars colour Veneers	pale brown in colour Fairly strong but easy to work with. Inexpensive	Constructional work and simple joinery work Plywood	veneer or plies which are glued at 90degrees to each other. Interior and exterior grades available	Furniture making. Some grades used for boat building and exterior work	Some testing and consumer feedback can be done before costly production	Difficult to keep up with constantly changing and improving technology
	A straight-grained wood with a fine texture. Light in colour Very hard but easy	Parana Pine Hard and straight grained. Almost knot free. Fairly strong and durable. Expensive Data wallow in endowr with	Better quality pine furniture and fittings such as doors and chiercore	Avery inexpensive particle board which sometimes has a laminated plastic surface	Furniture backs, covering curved structures. Door panels	More accurate drawings can be achieved	Files can be corrupted or lost
Pillar Drill	to work with Can be steam bent	red/ brown streaks	Hardboard			Changes can be made to the drawings easily	
Tenon saw	A very durable oily wood Golden brown in colour. Highly resistant to moisture	Yellow cedar A pale yellow colour with fine even texture Light in weight but stiff and stable	Furniture, amateur aeroplane building, boat building, veneers Chipboard	Made from chips of wood glued together. Usually reneered or covered in plastic laminate	Kitchen and bedroom furniture when veneered or plastic laminated. Shelving and general DIY work	Easier to store drawings as digital files that can be sent all around the world in an instant	
		p m m	· · · · · · · · · · · · · · · · · · ·		W.		

	Animal		Character - themes and co	use this section to link characters to key ontext	Vocabulary - Use these words in your writing	$\begin{array}{l} \textbf{Context} \ \textbf{-} \ write \ \textbf{a} \ \textbf{sentence} \ linking \ \textbf{this} \ \textbf{to} \ \textbf{key} \\ \textbf{moments from the} \ \underline{\textbf{plot}} \end{array}$	
•	Farm	Themes	Mr and Mrs Jones	The humans of the story. The farmer and his wife. They symbolise Tsar Nicholas and his wife.	<b>tyrant</b> : a cruel, power hungry leader	Author George Orwell - a writer known for being outspoken. Orwell criticised social injustices and	
		Power and corruption	Napoleon	A large, fierce talking pig who is insistent	dictatorship: a type of government in which only one	over powerful rulers/governments. Orwell also wrote 1984.	
		Responsibility		on getting his own way. Represents Joseph Stalin.	ruler has power.	Written	
		Hopes and dreams	Old Major	An older pig who longs for change. He is	corrupt: not honest; wicked	During WW2 but published in 1945 just after war. The book could not be published during the war,	
		Class		a good public speaker and inspires the animals to revolt, but dies shortly after.	<b>rebellion</b> : an armed fight	because Great Britain and Russia were allies.	
Plot -	earn this and quiz yourself on	what happens in each chapter		Represents Lenin.Upon his death Napoleon takes charge of the animals	propaganda: information	Russia 1894 Russia is ruled by Tsar Nicholas II. Tsar Nicholas is	
1	Old Major, the prize b	oar, calls a secret meeting of all the farm		and begins to distort Major's ideas.	used to promote a political	decisions that worsened life for his civilians and	
	animals on Manor Far human master, Mr Jor	m. He states that a rebellion against their nes, will one day come.	Snowball	Consistently clashes with Napoleon over the direction of the revolution	allegory: a story with a hidden		
2	A cow starts the rebe	llion by walking into the store-shed. The		Represents Trotsky an enemy of Stalin.	meaning	Russian Revolution February 1917 During WW1 Russia is in ruins. The people of Russia	
	animals end up chasin	ng Mr Jones off the farm.	Squealer	Napoleon's second in command and	<b>society</b> : people in living in a community	are furious at Tsar Nicholas for taking them into a war they were ill-equipped to fight.	
3	Now they are free, the Commandments that	e animals all agree on the Seven they will live by. The farm is renamed	minister of propaganda. Represents Molotov.		equality: the state of being	Bolshevik Revolution October 1917	
	'Animal Farm'; there's	hope for a better future.	Boxer	The hard working farm horse. Represents the working class.	the same, especially in terms of rights, wealth and status	A second revolution in the same year. The Bolsheviks, led by Vladimir Lenin, consolidate their power and eliminate their remaining enemies. The	
4	The pigs start to order food than they should	r the other animals around and take more I.	Benjamin	The cynical old donkey. Represents those who were resistant to change.	revolution: a forcible overthrow of government	Bolsheviks promised to take care of the workers and the peasants. The Bolsheviks murdered Tsar Nicholas and his family by firing sound	
5	The animals bravely find farm, this becomes known and the second	ght off a human attempt to retake the lown as 'The Battle of the Cowshed'.	Mr Pilkington	Owner of a nearby farm. Represents UK and USA.	inferior: lower in rank or status	Dictator Lenin ruled Russia until his death in 1924. At that	
6	The animals set to work building a windmill and Napoleon takes charge.		Mr Frederick	Owner of nearby farm. Represents Nazi Germany.	superior: higher in rank or	point Joseph Stalin took over. He wanted Russia to modernise and was prepared to do so at any cost. He worked his neonle into the ground in low paid	
7	Napoleon reduces the starts breaking the co	e rations and rights of the animals and mmandments. There is another invasion	Mr Whymper	A human who works for the pigs as a messenger.	dystopia: a nightmare world in which negative elements of		
	by the men and the w rebuilding it for the se	indmill is blown up. Boxer collapses whilst econd time.	Mollie	The beautiful white horse. Careless and vain. Represents the upper class.	the real world are exaggerated	Communism The belief that money, homes and resources should	
8	Napoleon and the oth wear human clothes a work, the animals of t began, hungry, scared	er pigs learn to walk on their hind legs, and carry whips. Despite all their hard he farm are right back to where they and exploited by those in charge.	Muriel, Clover, Moses	The goat, the brown horse and raven on the farm.	<b>hypocrisy</b> : when someone pretends to be different or better than they really are	be shared equally amongst everyone. Lenin, The Bolsheviks and Stalin all believed in this political philosophy. Similar to Marxism, made famous by Karl Marx.	

# Aspiration Creativity Character

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MZ

**HSIJSN** 

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Descriptive techniques (DPR	01)	Ambitious vocabulary: look,	Sentences (DPRO 3,4): wri	Sentences (DPRO 3,4): write an example of your own		,4)
Technique:	Example:	cover, write, check, correct.	Technique:	Example:	Can you write an e	kample of each?
Personification - a metaphor attributing human feelings to an	As Zeus' rage grew, <u>thunder roared</u> in the dark_ominous	justice - fair behaviour or treatment	Subject- the person/     The candlelight danced.       thing performing the main action.     The candlelight danced.		Simple Sentence: One clause. Contain	Example: She ran. She was home.
object.	skies.	oppression - cruel or unjust treatment	Verb- word expressing action/ doing/ state of being	The candlelight <u>danced</u> . It <u>was</u> cold.	a subject and verb. Makes sense by itse	lf.
<b>Onomatopoeia</b> - words that sound a little like	The gravel <u>crunched</u> as the army	colossal - huge	Main clause - Part of a sentence containing one       The pallid candles flickered.		two sentences joine by FANBOYS (for, ar	ed She was scared <b>yet</b> ed she kept walking. ed,
they mean.	marched.	diabolical - disgracefully bad or	subject and one main verb (makes sense by itself).		nor, but, or, yet, so) a semicolon	or She was scared <b>bu</b> t she stopped walking.
Pathetic fallacy - using	As Zeus' rage grew,	unpleasant	Subordinate clause - Flickering ominously, the candle wind.		om the blowing Complex sentence: main clause (makes	Although she was scared, she kept walking
the weather to create or reflect a certain mood.	thunder roared in the dark, ominous skies.	abolish - to get rid of	itself.	but or	and subordinate	She was scared, although she kept
Metaphor - a	Jealousy is a	peaceful	Conjunctions - words that join two main	to and N B O L	clause (does not). Includes a comma. The subordinate	
descriptive technique that names a person,	green-eyed monster.	disparity - a great	compound sentence	v v	clause can be move	j. hole in the stone. Squinting through the hole in the stone she
thing or action as something else.		amerence	Subordinating Conjunctions - start			scanned the room.
<u>Simile</u> - a descriptive technique that compares one thing with another, usually using 'as' or 'like'.	Manipulation is a force as powerful as an earthquake.	and self-important	which help create complex sentences	AWAWA BU	Minor Sentence: An incomplete sentence missing a subject or verb use for effect.	Look! Weird! d
Using TiPToP for Paragraphs:		DZFE: A useful structure for writing Drop: Start in the middle of exciting	stories/ descriptions action/ describe setting	Flash: Chang	e the time or place of your story	
Use TiPToP to remember how to use paragraphs accurately. In that moment / All Start a new paragraph when A sudden gust of hot air bil Ti: You move to a new period of time The music pounded louder		In that moment / All aroun A sudden gust of hot air blew, p The music pounded louder and	nd, I could feel ushing louder until	It had only Earlier that The streets	been a few hours ago when : morning had been deserted when / Back at he	ome
P: You move to a different p TO:You move from one topic	ace/ location to another	Zoom: Choose something that you w	vill 'zoom in' on and describe in det	edetail Echo: Bring it back to where you were at the start. What has changed?		
P: You bring a new person in from one person to another	to your writing, or change (this includes dialogue)	Immediately, the colours of the The subtle shades of	caught my eye	The Repeat a w	grew louder than ever before ord / phrase / image from the opening of t	he piece

# ANIMAL FARM FUNDAMENTALS: (The things you need to know!)

	Analysis		Moments to mention
<ul> <li>The Commandment has been changed with "but some animals are more equal than others" being added on</li> <li>This shows the inequality - the animals in power live comfortably and the others do not</li> </ul>		Said by the pigs who control the government.	Chapter 10 "All animals are equal but some animals are more equal than others" (Pigs)
<ul> <li>Shows that the sheep have been brainwashed and manipulated</li> <li>The pigs have become more and more like the humans</li> <li>Orwell does this to show how corrupt communist regimes become the same as any others</li> </ul>		The "four legs" quote from chapter one has changed.	Chapter 10: "Four legs good, two legs better!" (The sheep)
<ul> <li>The adjectives "deep" and "menacing" convey the dogs' vicious nature</li> <li>The dogs control the other animals</li> <li>Orwell uses the dogs to represent Stalin's bodyguards</li> </ul>		Napoleon uses vicious dogs to scare anyone who challenges him.	Chapter 5 "Suddenly the dogs sitting round Napoleon let out deep, menacing growls, and the pigs fell silent and sat down again"
<ul> <li>An example of propaganda</li> <li>Shows that Napoleon hates the humans</li> <li>Orwell shows how language is used by those in power to control people - sheep are known to be unintelligent and to follow anyone</li> </ul>		The sheep bleat this expression of animal unity like a chant	Chapter 3 "Four legs good, two legs bad." (Sheep to Animals)
<ul> <li>The word "slavery" highlights inequality</li> <li>Short sentences and emotive language are used to present opinion as fact</li> </ul>		Old Major says this to persuade the animals to rise up against Mr Jones	Chapter 1 "The life of an animal is misery and slavery: that is the plain truth" (Old Major to Animals)
Analysis		Meaning	Quotations

Moments to mention	Analysis
<b>Old Major's Dream</b> The novella opens with Old Major gathering the farm animals together to tell them about his dream of rebellion.	<ul> <li>Old Major is the character who inspires the revolution.</li> <li>He is a fantastic speaker and motivates the animals to act</li> <li>Sheds light on how the animals are mistreated by farmer Jones.</li> <li>His speech/dream is an important moment because it shows that power corrupts.</li> </ul>
The Seven       I Waner groups hav key is an unnyy.         Commandments       I Waner groups hav key is an unnyy.         After the Rebellion the animals begin to organise themselves and establish the Seven Commandments (rules) that they will live by.       I Waner groups hav key is an unnyy.         Image: Seven Commandments (rules) that they will live by.       I Waner groups hav key is an unnyy.         Image: Seven Commandments (rules) that they will live by.       I Waner groups hav key is an unnyy.	<ul> <li>The Seven Commandments are agreed on by the animals and painted on the barn wall.</li> <li>The commandments are supposed to build a fair and equal society.</li> <li>The commandments are important because they are changed and manipulated throughout the story. What started out as well meaning policies become strict and corrupt rules by which the animals must live.</li> <li>The changes made represent Napoleon becoming dictator of the farm.</li> </ul>
<b>The Battle of Cowshed</b> <i>Mr Jones returns to the farm with</i> <i>weapons. He wants to take control</i> <i>of the farm again but is defeated by</i> <i>the animals.</i>	<ul> <li>The animals unite to defend the life they have built since Jones's expulsion from the farm.</li> <li>The animals want to live by the Seven Commandments.</li> <li>There is a real belief that change is in the air and the animals are prepared to fight for this.</li> </ul>
<b>Some are more equal than others</b> Napoleon and the other pigs learn to walk on two legs, wear human clothes and carry whips. They have become similar to the humans who they used to hate.	<ul> <li>The novella has a cyclical structure. It begins with the animals protesting and dismayed at dictatorial rules and ends in the same way.</li> <li>Orwell's message is that power corrupts - ideas like communism and socialism do not work once those in charge have power.</li> </ul>

# Coasts

Wind

Fetch

speed

#### Coastal erosion and weathering

#### Wave Types and Characteristics Coasts are constantly changing due to the action of waves, weathering,

erosion, transportation and deposition. How coasts change will depend on the types of rocks that are in an area.

Harder rocks, like granite and limestone, will erode slowly. Softer rock, like clay, erodes quickly

#### Types of Erosion

Abrasion	As waves smash rocks against cliff surfaces, they are worn away and become smoother. This is known as the "sandpaper effect".
Hydraulic action	Air becomes trapped in cracks in the cliffs. When waves break against the cliffs, air is compressed and this forces the crack to get bigger. This eventually causes a piece of the cliff to break away.
Attrition	Rocks being transported by the sea knock against each other and gradually become smaller and more rounded.
Solution	When the slightly acidic sea water dissolves cliffs such as limestone or chalk

#### Types of Weathering

Chemical	Physical	Biological
Rainwater and seawater can be a weak acid. If a coastline is made up of rocks such as limestone or chalk, over time they can become dissolved by the acid in the water.	Freeze-thaw: water enters cracks in rock. It freezes and expands, widening the crack. Ice melts and goes deeper into crack – this process repeats until rock splits	Plant roots enter small crack in rocks, as plants grow the cracks get larger. This causes rock to break away.

#### Transportation -Longshore Drift (LSD)

are:

LSD is the zigzag movement of sediment along a shore caused by waves going up the beach (swash) at the enable of prevailing wind and returning (backwash) at a right angle due to gravity. This results in movement of sediment along the coasts.



#### Strong swash Features of a constructive wave moves sediment Waves are ripples in the sea caused by up the beach Smaller wave height & Less frequent the transfer of energy from wind blowing over the surface of Weak backwash carries the sea. The factors away little sediment Gives gentler that affect wave size beach profile Weak swash Features of a destructive wave moves little sediment up the Length of Larger wave time wind has height & More beach been blowing frequent STRONG backwash carries away LOTS of sediment (Distance over STEEP beach SCOURS material away This car water the wind has blown)

#### Depositional Landforms - Formation of a Spit



at low tide)

Cost

1. Not everybody likes the

1. They look different to the

local geology, as the rock

2. Rocks are expensive to

has been imported from

look of them 2. Expensive - approx.

other areas

1. Not very strong

transport

£2,000 per metre

# **Coastal Landforms and Management**



	erosion processes	mesh cages and placed in areas affected by erosion	per metre 2. Absorbs waves energy	2. Looks unnatural
		Groynes - wooden or rock structures built out at right angles into the sea	1. They trap sediment carried by longshore drift creating a beach which is a barrier to erosion. 2. Beaches encourage tourism	1. By trapping sediment it starves beaches further down the coastline, increasing rates of erosion elsewhere.
		Beach nourishment - the addition of material to a beach artificially, through the dumping of large amounts of sand and shingle	1. Improves coastal protection 2. Widens beach- good for tourism	1.Has to repeated year after year Sand has to brought from elsewhere
	Soft engineering: Managing erosion by working with	Beach reprofiling - changing the profile or shape of the beach. It usually refers to the direct transfer of material from the lower to the upper beach.	1. Improves protection for seafront properties/infrastructure 2. Relatively cheap	1.Needs to be repeated constantly
	natural process to help restore beaches and coastal ecosystems	Dune regeneration - action taken to build up dunes and increase vegetation to strengthen the dunes and prevent excessive coastal retreat.	1.Relatively cheap 2.Looks natural	Areas can be damaged by storms Areas sometimes need to be fenced off which angers public
		Managed retreat: controlled flooding of low lying coastal areas. Usually areas of high risk to erosion and land of low value e.g. farmland	1.Cheaper than hard engineering 2. Creates salt marsh which is great for wildlife. 3. Leisure space	1. Land lost is reclaimed by the sea 2. Landowners need to be compensated

Coastal Management

base of cliff

walk along them.

Benefit

Effective at protecting

2. Sea walls usually have

promenades so people can

1. Cheaper than a sea wall

2. Can be used for fishing

1. Cheap - approx. £100

and easier to maintain.

Method

Sea walls - concrete walls

to prevent erosion

Rock armour - Large

boulders are placed at the

foot of a cliff. They break the

waves and absorb the energy.

Gabions - rocks are held in

are placed at the foot of a cliff



14

# **Aspiration Creativity Character**

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Key concepts		Key words
Medieval Britain: The 'Ipswich Man' is the name given to the skeleton of a man found in Ipswich, Suffolk. The Ipswich Man had been buried there between L258 and 1300 and through forensic investigation was found to have direct African ancestry. Fudor Britain: King Henry VIII had an African trumpeter called John Blanke. We know about him because he was not paid as much as the other white English rumpeters and wrote to Henry VIII to ask to be paid the same.Mary Fillis was born to a Muslim family in Morocco. She moved to Britain in 1583 at the age of is and worked as a servant (not a slave) for a man named John Barker, a merchant and sometime factor for the Earl of Leicester. Industrial Britain: (1820-50) In the nineteenth century some talented Black people began to make remarkable contributions to the arts and entertainment. ra Aldridge_was an actor. Some people objected to a Black actor and tried to prevent him acting, but he had many supporters. Aldridge acted in theatres all	Institutional racism	The policies and practices of a whole organization that result in harmful treatment of a group based on ethnicity or race
over Britain and Europe. Some Black people became political activists and campaigned to make Britain a better country for all its citizens. For example, William Cuffay. He became a leading London organiser of the Chartists who fought for political rights	riots	Violent action by one group of people against another
Rey Individuals of the 20th Century: Claudia Jones - political activist, creator of the early version of Notting Hill Carnival and founder of the West Indian Gazette in 1958 Stephen Lawrence - Was killed in a racist attack in 1993. The Race Relations Act (2000) was passed due to his death that prevented racism in the police force.	boycott	Refusing to use or buy something in protest
Soreen Lawrence: Political activist who campaigned to expose institutional facism in the police after her son stephen's death	legislation	law
Xey Legislation of the 20th Century: British Nationality Act of 1948 - Allows Black people part of the British Empire to live in Britain. Race Relations Act 1965 - Makes racism illegal in public Race Relations Act 1968 -Made it illegal to discriminate against people of a different race in the areas of housing, employment and healthcare services. Race Relations Act of 1976 - This Act included indirect discrimination - any practice that disadvantaged a particular racial group as a crime.		A belief in anti-racism supported by the black British and British Asian community.
Race Relations (Amendment) Act 2000- This Act officially made it illegal for the police to be racist. The Equality Act 2010 - This law stopped people from limiting others not only in terms of race, but also gender and disability	social justice	equality for all people.
Social Justice Movements of the 20th Century: The Bristol Bus Boycott of 1963 - The Bristol Bus Company stopped black and Asian people from working on busses in the city of Bristol, England. Black	movement	A campaign for change
<b>Vichael X and Roy Sawh</b> - After 1967 they encouraged the black community to take violent action in self-defense against racists. As a result Micheal X was ailed because he broke the Racial Discrimination Act of 1965. <b>Viangrove Nine Trials</b> - In 1970 black power activists unfairly accused of crimes they did not commit were put on trial. They were found innocent - a great	activist	Someone who campaigns or fights for a cause
success in an age that usually found black people guilty of any crime they were accused of. Spaghetti House Siege - In September 1975 three black men - Anthony Monroe, Wesley Dick and Frank Davies - started a robbery in the Spaghetti House restaurant in London to raise money for black power movement. Their robbery failed and the black power movement became less popular as a result.	campaign	When a group of people work together to change society.
	Act	A law
Luitural Movements: .inton Kwesi Johnson - Poet and reggae musician, He inspired many groups of black British writers in the 1970s to write about their own experiences being plack and British. Reggae music is a mix of jazz and calypso. Common lyrics in reggae encouraged black people to resist racism and stay connected to their African roots and	Chartist	A group who fought for the right for poor men to vote.
culture. Dzwald Boateng has had a vast impact on menswear fashion for almost three decades. Norman Jay MBE is a British musician. He moved from childhood gigs playing ska music at family gatherings to having a hugely popular gig at London's Notting Hill Carnival. Malorie Blackman was born in Clapham, London. Her parents were both from Barbados. She has written more than 60 children's books	HMS Windrush	The ship that brought large numbers of Caribbean migrants to the Tilbury Docks in the UK in 1948.

	Negative Number Examples				Frac	tion Skills	Section G: Standard Index Form		
ı	Put these r ascending	numbers in order:	-5, -3, 0, 2, 4	1	1/8 of 40	40÷8 = 5	10 <sup>0</sup> =	I	
2	-4 - 3 =	-5	-7	2	3/8 of 40	40÷8×3 = 15	10 <sup>1</sup> =	10	
3	+ 4 =	0	-4	3	To add fractions, you	A common denominator	10 <sup>2</sup> =	100	
4	43 =		+7		To subtract fractions,	A common denominator	10" =	10,000	
5	- 4 × - 3	3 =	+12		you first need	4	10 =	0.0001	
6	- 4×3 =		-12	5	$\frac{3}{5} + \frac{1}{5} =$	5	10 =	0.0001	
7	- 20÷ -	4 -	+5	6	$\frac{3}{5} - \frac{1}{5} =$	2 5	5200 in standard index form	5. 2×10°	
-	201	-	-	- 7	$\frac{3}{3} + \frac{1}{3} =$	$\frac{12}{12} + \frac{5}{12} = \frac{17}{12}$	0.052 in standard index form	5.2×10 <sup>-2</sup>	
8	20÷ - 4	=	-5		<u> </u>	20 + 20 = 20 12 = 5 = 7	43×10 <sup>2</sup> is not in standard index form because	43 is not between 1 and 10	
9	$-4^{-}=$		-16	9	$\frac{5}{4} + \frac{3}{4} + \frac{1}{4} = \frac{3}{4}$	$\frac{3 \times 1}{5 \times 1} = \frac{3}{20}$	6.72 ×1000 is not in standard index form because	1000 should be 10 <sup>3</sup>	
11	-34 =		-3 + 4 = +1	10	$3 \times \frac{1}{4} =$	$\frac{3}{1} \times \frac{1}{4} = \frac{3 \times 1}{1 \times 4} = \frac{3}{4}$	To compare numbers in standard index form	Compare the powers of 10. Higher power of 10 means higher value.	
12	-3 + - 4 =		-3 - 4 = -7		$\frac{3}{5} \div \frac{1}{4} =$	$\frac{3}{5} \times \frac{4}{1} = \frac{3 \times 4}{5 \times 1} = \frac{12}{5}$	Which is greater: 4.3×10 <sup>7</sup> or 3.82×10 <sup>9</sup> ?	3.82×10 <sup>9</sup> because 10 <sup>9</sup> > 10 <sup>7</sup>	
13	If a = - 10 - a =	- 3, 103 = 10 + 3 = a = 13		12	$3 \div \frac{1}{4} = \frac{3}{1} \div \frac{1}{4} = \frac{3}{1} \times \frac{4}{1} = \frac{12}{1} = 12$		Algebra	a: Simplify	
14	lfa = -	3,	$(-3)^2 = +9$				a + a	2a	
	a =			$\exists$	Prime Factors		a + a + a	3a 2	
Per	rcentage	Decimal	Fraction	- I I	List the first 10 prime	2, 3, 5, 7, 11, 13, 17, 19, 23, 29	a×a	a	
	1% 0.01		100			It has only one factor: I.	axaxa 3a ± a	a 4.a	
	3% 0.03		100		T is not a prime because	A prime has exactly two factors.	3a - a	2a	
	10% 0.1		0.1 1 3 15 is not a prime because.		A prime has exactly two factors.	3a×a	3a <sup>2</sup>		
	20% 0.2		$\frac{2}{10} = \frac{1}{5}$ 5 1	4	Product means	Multiply	3a + 4b cannot	They are not like terms	
	<b>50%</b> 0.5		10 = 2 99	5	Express 30 as a product of prime factors	fits 30 = 2×3×5	3a + 4b - 2a + 2b	a + 6b	
	<b>100%</b> I <u>1</u>		$\frac{100}{\frac{1}{1}} = 1$	6	Write 2×2×2×3×5×5 in index form	2 <sup>3</sup> ×3×5 <sup>2</sup>	If $a = 3$ and $b = 4$ , 5a - b =	5(3) - (4) = 15 - 4 = 11	

# Aspiration Creativity Character

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Stories and Cartoon and Mo	otifs
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Element       Core knowledge [this will be in your assessment]       S		Stories and Cartoons Context
Melody	<ul> <li>Range - difference between the highest and lowest note in a melody</li> <li>Glissando- an effect where you move smoothly between pitches</li> <li>Leaps - a melody moving in leaps</li> </ul>	<ul> <li>Recommended Listening:</li> <li>Cathy Berberian - Stripsody</li> <li>Larry Marks - Scooby-doo Theme</li> </ul>
Articulation	<ul> <li>Pizzicato - plucking a usually bowed string</li> <li>Arco - Using a bow</li> </ul>	<ul> <li>Mark Harrison and Blaise Smith - Spongebob Theme         <ul> <li>Inspired by [Blow The Man Down -</li> </ul> </li> </ul>
Dynamics	<ul> <li>Diminuendo - getting gradually quieter</li> <li>Sforzando - Suddenly Loud</li> </ul>	Sea Snanty for Context]     Shuki Levy - Inspector Gadget
Texture	<ul> <li>Thick - many layers of sound</li> <li>Thin - few layers of sound</li> </ul>	
Structure	<ul> <li>Graphic score - Non-standard music notation that is drawn to direct the performer</li> <li>Ternary form ABA</li> <li>Binary form AB</li> </ul>	Motifs Context
Harmony	Major / minor - happy/ sad sounding chords	Recommended Listening
Instrumentation	<ul> <li>Piano</li> <li>Orchestra</li> <li>Voice</li> </ul>	Beethoven's Symphony No.5
Rhythm	<ul> <li>Syncopation - Accenting off beats</li> <li>Dotted - Note pairs with a longer first note and a shorter second note</li> <li>Anacrusis - Starting a piece part way through a bar</li> </ul>	
Tempo/Time Signature	• 6/8	

M U S I C

#### Muscular system



# **Aspiration Creativity Character**

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18

	Year 8: Summer 1 Expressing Faith						
I	Key Terms	Key Individuals					
Equality	Having the same rights and opportunities as everyone else in society	Martin Luther King – MLK was one of the most influential civil rights activists in American history. He was a Christian pastor whose ideas and methods of peaceful protest were based on agape love that Jesus taught. He never used violence to achieve his aims and worked tirelessly with communities in the southern United States as well as with the American government to change laws to ensure African-Americans were given their civil rights.					
Prejudice	Judging a person before you know them based on a certain aspect e.g. race, religion, gender or other perceived difference	Malcolm X – Malcolm was also a civil rights activist, but had very different ideas to MLK. His famous phrase 'by any means necessary' showed that he thought people should achieve equality through the use of violence if peaceful methods didn't achieve their aims. Malcolm later converted to Islam and had a life changing experience on the Hajj. He became a much more peaceful man and stopped using violent protest.					
Discrimination Treating someone differently because of a certain aspect e.g. race, religion, gender or other perceived difference		<b>Gandhi</b> – Mohandas Gandhi, known as Mahatma Gandhi was a civil rights activist in Indian. He experienced racism while living South Africa and continued his fight for equality and freedom in India. Through his peaceful protest he eventually won freedor for India from British colonial ownership. His beliefs of equality and peaceful protest came from his Hindu faith and the teachin of ahimsa.					
Stereotyping	A generalised and simplistic idea of a group which is usually negative	<ul> <li>Dalai Lama – The Dalai Lama is the spiritual leader of Tibetan Buddhism. He is known worldwide for his teachings on the of human rights and freedom. He fought for the rights of Tibetans to express their faith after the country was invaded by He lives a simple life based on Buddhist teachings and is considered a role model for many Buddhists the world over.</li> </ul>					
Segregation	Dividing people based on race, gender or religion.	<b>The Prophets in Islam</b> – There are hundreds of prophets in Islam, we will focus on Musa, Isa and Mohammed (pbuh). Musa fought for freedom from slavery for his people in Egypt. Despite being raised by royalty and living a privileged life, he was called					
Ahimsa	Respect for all living things and avoidance of violence towards others.	how to treat others. Mohammed was also called upon by Allah to fight for the religious freedom of his people when M were not allowed to practice their religion in Saudi Arabia.					
		Useful Quotations					
Christianity	'There is neither Jew nor	Greek, there is neither slave nor free man, there is neither male nor female; for you are all one in Christ Jesus.' Galatians 3:28					
Islam	Slam "All people are equal as the teeth of a comb. No Arab can claim merit over a non-Arab, nor a white over a black, nor a male over a female" from The Hadith						
Hinduism <sup>(1</sup> look upon all creatures		qually. I am neither inimical nor partial to anyone. But the devotees who worship Me with love reside in Me and I reside in them.' Bhagavad Gita 9.29					
Buddhism		Change only takes place through action, not through meditation and prayer alone' – The Dalai Lama					
Islam	"Who among men is most fo	avored by Allah?' He, sallallaahu `alayhi wa sallam ( may Allah exalt his mention ) replied: "A man who does the most good to people." - Quran					

# Aspiration Creativity Character

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Year 8: Summer 2 Expressing Faith Through Expressive Arts						
	Key Terms	Key Concepts				
Express	convey a thought or feeling in words or by gestures and conduct.	<b>Christian Worship</b> For many denominations (types) of Christians, expressing their faith through the arts is considered worship. Pentecostalism is a type of Christianity who emphasize the idea of following the boly spirit when they worship, which means they may sing, should dance and				
Faith	strong belief in the doctrines of a religion, based on spiritual conviction rather than proof.	speak in tongues (which sounds like other languages) in order to celebrate God.				
Interpretation	a stylistic representation of a creative work or dramatic role that can sometimes be seen in different ways by different people.	This denotes creative art, especially visual art whose products are to be appreciated primarily or solely for their imaginative, aesthetic, or intellectual content, of which examples include paintings and sculptures. From the beginning of time people have used art to show their faith, from ancient paintings of myths inside the Egyptian pyramids to Michelangelo in Renaissance Europe. Religion, God and religious stories have long been a source of inspiration for artists and used as a way to show the artist's devotion to God, but also to educate others, particular in				
Representation	the description or portrayal of someone or something in a particular way.	the past when many ordinary people were unable to read religious texts for themselves.				
Spirituality	the quality of being concerned with the human spirit or soul as opposed to material or physical things.	<ul> <li>Music</li> <li>Music is another form of art that has long been used for believers to express their reverence and love for God. Examples of religious music goes throughout the world and is demonstrat by almost all religions. Hindus use music in day to day worship (part of pooja). Gospel is a key tradition in many Christian denominations. Much modern music also uses religion as a source of inspiration.</li> </ul>				
Allegory	a story, poem, or picture which can be interpreted to reveal a hidden meaning, typically a Religious one.	<b>Drama and Film</b> Film and drama often use allegory to tell a new story with a classic meaning which often times is rooted in religion, whether that be key messages about humanity and how to treat one another or stories of a 'chosen one' who will save humanity.				
Worship	Believers expressing love, respect and devotion to God.	Key Example				
Pentecostal	relating to or denoting any of a number of Christian movements emphasizing baptism in the Holy Spirit, evidenced by 'speaking in tongues', prophecy, healing, and exorcism.	<b>Michelangelo</b> - Michelangelo spent his life painting and creating sculptures believing that his pieces of art honoured God. Michelangelo was commissioned to paint the ceiling of the Sistine Chapel in the Vatican (1508-1512), which is the historic home of the Catholic Church and seen as one of the most important churches for Catholics to this day. His paintings often depicted bible stories, particularly the events during Jesus' life and his own interpretations of creation and the day of judgement.				

# Aspiration Creativity Character

20

21

Unic	ellular organisms Kno	wledge Grid			
	Question	Answer		Question	Answer
1	animal	A member of the animal kingdom. Animals are multicellular and have cells without cell walls.	22	chromosome	A long molecule that contains instructions for organisms and their cells.
2	bacterium	A type of prokaryote organism. Plural is bacteria.	23	enzyme	A substance that can speed up some processes in living things (e.g. by breaking down food molecules).
3	cell (biology)	The basic unit of all life. All organisms are made of cells.	24	flagellum	A tail-like structure that rotates, allowing a unicellular organism to move Plural is flagella.
4	diffusion	When particles spread and mix with each other without anything moving them.	25	statement key	A series of descriptive statements used to work out what something is.
5	fungus	A member of the fungus kingdom. A fungus can be multicellular or unicellular but does not make its own food. Plural is fungi.	26	chlorophyll	The green substance found inside chloroplasts.
6	kingdom	There are five kingdoms into which organisms are divided: plants, animals, fungi, protoctists and prokaryotes.	27	cilium	A small hair-like structures on the surface of some cells. Plural is cilia.
7	microorganism	An organism too small to be seen with the naked eye.	28	food chain	A way of showing what eats what in a habitat.
8	multicellular	An organism made of many cells.	29	organic molecule	A molecule that is built using a chain of carbon atoms.
9	plant	A member of the plant kingdom. Plants have chloroplasts and so can photosynthesise.	30	photosynthesis	A process that plants use to make their own food. It needs light to work
10	prokaryote	A member of the prokaryote kingdom. Prokaryotes are all unicellular and have cells that lack nuclei.	31	producer	An organism that is able to produce its own food (e.g. by photosynthesis).
11	protoctist	A member of the protoctist kingdom. Many protoctists are unicellular.	32	pseudopod	An extension from a cell that can extend and contract and so pull a cell in a certain direction.
12	unicellular	An organism made of one cell.	33	pyramid of numbers	A way of showing the numbers of different organisms in a food chain.
13	virus	A nonliving particle that can change how a living cell functions when it enters a cell. Inside a cell, a virus often causes the cell to make copies of the virus.	34	vacuole	A storage space in cells.
14	aerobic respiration	A type of respiration in which oxygen is used to release energy from substances such as glucose.	35	carbohydrate	A nutrient that is used as the main source of energy.
15	anaerobic respiration	A type of respiration that does not need oxygen.	36	carbon cycle	A model used to show how carbon compounds are recycled in an ecosystem.
16	asexual reproduction	Producing new organisms from one parent only.	37	decay	The breakdown of dead organisms or animal wastes, which allows the substances they contain to be recycled.
17	budding	A type of asexual reproduction in which a new small cell, a bud, grows out from a parent cell.	38	decomposer	An organism that feeds on dead organisms or animal wastes, causing them to decay.
18	fermentation	Anaerobic respiration occurring in microorganisms.	39	ecosystem	All the physical environmental factors and all the organisms that are found in a habitat.
19	limiting factor	Something that stops a population growing.	40	fat	A nutrient that is stored to be used for energy in the future. It also acts as a thermal insulator.
20	population	The number of a certain organism found in a certain area.	41	protein	A nutrient used for growth and repair.
21	binary fission	When a cell splits in two.			

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Pla	nts and their rep	roduction Knowledge Grid			
	Question Answer			Question	Answer
1	biodiversity	The range of different species of organisms in an area.	21	inherited	A feature that an organism gets from a parent is inherited.
2	characteristic	A feature of an organism.	22	inherited variation	Differences between organisms passed onto offspring by their parents in reproduction.
3	classify	To sort things into groups.	23	runner	A stem that grows from certain plants (e.g. strawberry), from which new plants grow using asexual reproduction.
4	extinct	An organism that no longer exists is extinct.	24	sexual reproduction	Reproduction that needs two individuals to produce a new organism of the same type.
5	genus	A group of similar organisms. The genus name is the first word in the scientific name for a species (the second word is the 'species name').	25	tuber	The swollen part of an underground stem used as a storage organ and as a method of asexual reproduction in some plants (e.g. potato).
6	plant kingdom	A group of organisms that have cells with cell walls made of cellulose and that are able to photosynthesise.	26	variation	The differences between things.
7	species	A group of organisms that can reproduce with each other to produce offspring that will also be able to reproduce.	27	zygote	Another term for 'fertilised egg cell'.
8	accuracy	A measure of how close a value is to its real value.	28	anther	A male reproductive organ in plants that produces pollen grains.
9	accurate	A measurement that is close to the true value.	29	carpel	The set of female reproductive organs in plants (ovary, style and stigma).
10	estimate	An approximate answer, often calculated from a sample or using rounded values.	30	cross-pollination	When pollen is transferred from one plant to a different plant of the same species.
11	population	The number of a certain organism found in a certain area.	31	filament	A male reproductive organ in plants that supports the anther.
12	quadrat	A square frame, thrown randomly on the ground, which is used to sample plants in an area.	32	pollen grain	The container for the male gamete in plants.
13	random	When there is an equal chance for one event occurring as there is for any other events in the same set.	33	pollen tube	A tube that grows from a pollen grain down through the stigma and style and into the ovary.
14	random error	An error that can be different for every reading.	34	pollination	The transfer of pollen from an anther to a stigma.
15	sample	To take a small part of something to investigate. You use a sample to draw conclusions about what the larger whole is like.	35	self-pollination	When pollen is transferred from a flower on a plant to a stigma in the same flower or to another flower on the same plant.
16	asexual reproduction	Producing new organisms from one parent only.	36	sepal	A leaf-like structure that protects a flower bud.
17	fertilised egg cell	What is produced when two gametes fuse.	37	stamen	The set of male reproductive organs in plants (anther and filament).
18	fertile	Able to produce offspring.	38	cell division	The splitting of a cell to form two identical cells.
19	gamete	A cell used for sexual reproduction.	39	competition	There is competition between organisms that need the same things as each other. We say that they compete for those things.
20	hybrid	An organism produced when members of two different species reproduce with each other.	40	egestion	When faeces are pushed out of the anus.
41	embryo	The tiny new life that grows by cell division from a fertilised egg cell.	52	byproduct	A substance produced by a chemical reaction that is not the desired product of the reaction. For example, the desired product of photosynthesis is glucose, and oxygen is a byproduct.
42	faeces	Waste food material produced by the intestines.	53	chloroplast	A green disc containing chlorophyll. Found in plant cells. Where the plant makes food, using photosynthesis.
43	fertilisation	Fusing of a male gamete with a female gamete.	54	dormant	If something is dormant its life processes are very slow.
44	fertilised egg cell	What is produced when two gametes fuse.	55	enzyme	A substance that can speed up some processes in living things (e.g. breaking down food molecules).
45	fruit	Something used to carry the seeds of flowering plants. Fruit can be fleshy or dry.	56	germinate	When a seed starts to grow.
46	gamete	A cell used for sexual reproduction.	57	interdependent	Organisms that depend on one another are said to be interdependent.
47	germinate	When a seed starts to grow.	58	life cycle	The series of changes in an organism as it grows, matures and reproduces.
48	pollen tube	A tube that grows from a pollen grain down through the stigma and style and into the ovary.	59	mineral salt (biology)	A compound containing an important element that is needed in small quantities for health (e.g. calcium). Plants get their mineral salts from the soil, animals get them from food.
49	seed	A small part of a plant formed by sexual reproduction that can grow into a new plant.	60	photosynthesis	A process that plants use to make their own food. It needs light to work.
50	seed coat	The tough outer covering of a seed.	61	respiration	A process in which energy is released from substances so it can be used by an organism. All organisms respire.
51	seed dispersal	The spreading of seeds away from a parent plant.	62	starch	A type of insoluble carbohydrate found in plants.

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The	e Periodic Table K	(nowledge Grid			
	Question	Answer		Question	Answer
1	law of conservation of mass	The idea that mass is not lost or gained during a chemical reaction. The mass of all the reactants is equal to the mass of all the products.	15	catalytic converter	A device fitted to the exhaust pipe of a vehicle to change harmful pollutant gases into less harmful gases.
2	metal	Any element that is shiny when polished, conducts heat and electricity well, is malleable and flexible and often has a high melting point.	16	complete combustion	When a substance reacts fully with oxygen, such as: carbon + oxygen ® carbon dioxide
3	metal oxide	A metal that has combined with oxygen in a chemical reaction, e.g. magnesium oxide. The general word equation for the reaction is: metal + oxygen ® metal oxide	17	incomplete combustion	When a substance reacts only partially with oxygen, such as when carbon burns in air producing carbon dioxide, carbon monoxide and soot (unburnt carbon).
4	non-metal	Any element that is not shiny and does not conduct heat and electricity well.	18	filter (chemistry)	Anything, such as cloth, paper or a layer of sand, through which a fluid is passed to remove suspended pieces of solid.
5	oxidation	Reacting with oxygen. For example, when a fuel combusts or when a metal reacts with oxygen to form a metal oxide.	19	filter (physics)	Something that only lets certain colours through and absorbs the rest.
6	oxide	A compound of a metal or non-metal with oxygen, such as magnesium oxide or carbon dioxide.	20	nitrogen oxide	Acidic gas formed when nitrogen reacts with oxygen at high temperatures, such as in a car engine. There are different types of nitrogen oxide.
7	oxidiser	A substance that supplies oxygen for a reaction.	21	pollutant	A substance that can harm the environment or the organisms that live there.
8	phlogiston	A substance that scientists once thought explained why things burn; it has since been proved that it does not exist.	22	soot	A form of carbon, which is produced as very fine particles when hydrocarbon fuels undergo incomplete combustion.
9	exothermic	A reaction that gives out energy that can be felt as it heats the surroundings, such as combustion.	23	sulphur dioxide	An acidic gas released from burning fossil fuels, which contributes to acid rain.
10	fire extinguisher	Something that is used to put out a fire, such as a canister of carbon dioxide, powder, water or foam.	24	climate change	Changes that will happen to the weather as a result of global warming.
11	fire triangle	A way of showing in a diagram that heat, fuel and oxygen are needed for fire.	25	global warming	Increased warming of the Earth's surface as a result of increased amounts of carbon dioxide and other greenhouse gases in the air.
12	hazard symbol	A warning symbol that shows why something is dangerous.	26	greenhouse effect	The warming effect on the Earth's surface caused by greenhouse gases absorbing energy emitted from the warm Earth's surface and re-emitting it back to the surface.
13	acid rain	Rainwater that is more acidic than usual due to air pollution, usually caused by sulphur dioxide and nitrogen oxides dissolved in it.	27	greenhouse gas	A gas, such as carbon dioxide, water vapour or methane, in the Earth's atmosphere, which absorbs energy emitted from the Earth's surface and then emits it back to the surface.
14	asthma	A condition in which the tiny tubes leading to the alveoli become narrow and start to fill with mucus.			

The Periodic Table Kn	he Periodic Table Knowledge Grid						
Question	Answer						
1 basalt	An igneous rock with very tiny crystals.						
2 bond	A force that holds some atoms tightly together.						
3 crust	The solid rocks at the surface of the Earth.						
4 extrusive	Igneous rocks formed when lava freezes above the ground.						
5 gneiss	A metamorphic rock formed when schist is heated and squashed more. It usually has bands of different coloured minerals.						
6 igneous rock	Rock made from interlocking crystals that are not in layers. Formed when magma or lava cooled down and solidified.						
7 intrusive	Igneous rocks formed when magma freezes underground.						
8 lava	Molten rock that runs out of volcanoes.						
9 magma	Molten rock beneath the surface of the Earth.						
10 mantle	The part of the Earth below the crust.						
11 metamorphic rock	A rock formed from interlocking crystals that are often lined up in layers. It is formed when existing rocks are heated or compressed.						
12 particles	The tiny pieces of matter that everything is made out of.						
13 schist	A metamorphic rock formed when slate or other rocks are heated and squashed more. It is usually shiny with flat crystals in wavy layers.						
14 mining	Obtaining metal ores or other substances from the Earth.						
15 native state	When a metal is found in the Earth as an element.						
16 ore	A rock that contains enough of a certain mineral or metal to make it worth mining.						
17 recycling	Using a material again, often by melting it and using it to make new objects.						
18 toxic	A toxic substance is poisonous.						

	Routine & Holidays							
1. ¿Cómo es tu rutina diaria? (How is your daily routine?) Quizlet list				3. ¿Qué actividades hiciste/ haces durante tus vacaciones? (What activities did you do/ do you do during your holidays?) <u>Quizlet list</u>				
Todos los días (Every day) Los fines de semana (On the weekends) Si tengo tiempo (If I have time)	me_despierto (I wake up) me_levanto (I get up) me_ducho (I shower) me_visto (I get dressed) me_peino (I comb my hair) me_lavo los dientes (I brush my teeth) desayuno (I have breakfast) voy al instituto (I go to school)	Además In addition Aunque although	Cuando llego a casa (When I arrive home) Cuando me apetece (When I feel like it) Si mis padres me dejan (If my parents let me)	me cambio de ropa (I change clothes) me relajo en el sofá (I relax on the sofa) me acuesto (I go to bed) meriendo (I have a snack) hago los deberes (I do my homework) paseo al perro (I walk the dog) ceno (I have dinner)		Normalmente suelo (Normally I usually) Solemos (We usually) Me gusta (I like) A mi hermano le encanta (my brother loves)	tomar el sol (sunbathe) pasear por la playa (stroll on the beach) nadar en el mar (swim in the sea) visitar los monumentos (visit monuments) ir de compras (go shopping) comer en restaurantes típicos (eat in typical restaurants) sacar fotos (take photos) hacer senderismo (go hiking)	y es estimulante (and it's invigorating) porque pienso que es educativo (because I think it's educational) Además, es relajante (In addition, it's relaxing) Pero es peligroso (but it's dangerous) aunque es una pérdida de tiempo (although it's a waste of time)
HORA: a la una (at one) a las seis (at six) a las siete (at seven) a las ocho (at eight) a las nueve (at nine) a las diez (at ten) a las once (at eleven)		en punto (o'clock) y cuarto (quarter past) y media (half past) de la mañana (in the morning) de la tarde (in the afternoon)			En el primer día (On the first day) En el último día (On the last day) Por la mañana (In the morning) Por la tarde (In the afternoon)	fui de excursión (I went on a trip) fui de compras (I went shopping) visité el centro (I visited the centre) compré recuerdos (I bought souvenirs) nadé en el mar (I swam in the sea)	Luego, bailé en una discoteca (Then, I danced in a club) más tarde comí paella (Later, I ate paella) Después, leí un libro (After, I read a book) más tarde saqué fotos (Later I took photos) también tomé el sol (I sunbathed too)	
2. ¿Adónde vas de vacaciones normalmente? (Where do you normally go on holidays?) Quizlet / ¿Adónde fuiste de vacaciones el año pasado? (Where did you go on holidays last year?) Quizlet								
Normalmente mi familia y yo vamos aEspaña (Spain) / México Cuba / PerúNormally my family and I go to)Italia / Irlanda(Normally my family and I go to)Escocia (Scotland)Todos los veranos voy aIdaia / Germany) / ChinaIdos Estados Unidos (the USA) Turquía (Turkey)Italia / Irlenda(Every summer I go to)Grecia (Greece) Polonia (Poland) Rumanía / NigeriaTodos los años mi amiga va a (Every year my friend goes to)Marruecos (Morocco)		en avión (by plane) en coche (by car) en tren (by train) en barco (by boat) en autocar (by coach) en autobús (by bus) en motocicleta (by motorcycle)	hace sol (it's sunny) hace calor (it's hot) hace demasiado calor (it's too hot) hace frío (it's cold) hace mal tiempo (there's bad weather) llueve demasiado (it rains too much)		El año pasado fui a (Last year I went to) El verano pasado fuimos a (Last summer we went to) Hace dos años mi amigo fue a (Two years ago my friend went to)	<ul> <li>un hotel de cinco estrellas (a five star hotel)</li> <li>un hotel barato (a cheap hotel)</li> <li>un apartamento en el centro (an apartment in the centre)</li> <li>un camping (a campsite)</li> <li>la casa de mi amiga en Florencia (my friend's house in Florence)</li> </ul>	<ul> <li>iLo pasé bomba!</li> <li>(I had a great time!)</li> <li>iFue increíble!</li> <li>(It was incredible!)</li> <li>iFue estupendo!</li> <li>(It was great!)</li> <li>iFue un desastre!</li> <li>(It was a disaster!)</li> <li>iFue horroroso!</li> <li>(It was horrible!)</li> <li>iFue monótono!</li> <li>(It was boring)</li> </ul>	

# Aspiration Creativity Character

S P A N I S H

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PRESENT TENSE	PRESENT TENSE	PRESENT TENSE	FREQUENCY EXPRESSIONS	
COMER ( TO EAT)	TENER ( TO HAVE)	IR ( TO GO)	Hoy en día – Nowadays	
Yo como– I eat	Yo tengo – I have	Yo voy– I go	De momento – At the moment	
Tú comes– You(sg.) eat	Tú tienes – You(sg.) have	Tú vas– You(sg.) go	Normalmente – Normally	
Él / Ella come- He/She eats	Él / Ella tiene – He / She has	Él / Ella va– He/She goes	Generalmente – Generally	
Nosotros(as) comemos- We eat	Nostros(as) tenemos – We have	Nostros(as) vamos- We go	Todos los días – Every day	
Vosotros(as) comeis- You(pl.) eat	Vosotros(as) tenéis – You(pl.) have	Vosotros(as) vais– You(pl.) go	Hoy – Today	
Ellos / Ellas comen- They eat	Ellos / Ellas tienen – They have	Ellos / Ellas van – They go		
PRETERITE TENSE	PRETERITE TENSE	PRETERITE TENSE	FREQUENCY EXPRESSIONS	
COMER ( TO EAT)	TENER ( TO HAVE)	IR ( TO GO)	Ayer – Yesterday	
Yo comí– I ate	Yo tuve – I had	Yo fui – I went	Anoche – Last night	
Tú comiste- You(sg.) ate	Tú tuviste – You(sg.) had	Tú fuiste – You(sg.) went	La semana pasada – Last week	
Él / Ella comió– He/ She ate	Él / Ella tuvo – He/ She had	Él / Ella fue – He/ She went	El fin de semana pasado – Last weekend	
Nosotros(as) comimos– We ate	Nostros(as) tuvimos – We had	Nosotros(as) fuimos – We went	El mes pasado – Last month	
Vosotros(as) comisteis- You(pl.) ate	Vosotros(as) tuvisteis – You(pl.) had	Vosotros(as) fuisteis – You(pl.) went	Hace tres semanas – Three weeks ago	
Ellos / Ellas comieron– They ate	Ellos / Ellas tuvieron – They had	Ellos / Ellas fueron – They went	El año pasado – Last year	
NEAR FUTURE TENSE	NEAR FUTURE TENSE	NEAR FUTURE TENSE	FREQUENCY EXPRESSIONS	
COMER ( TO EAT)	TENER ( TO HAVE)	IR ( TO GO)	La próxima semana – Next week	
Yo voy a comer– I am going to eat	Yo voy a tener– I am going to have	Yo voy a ir- I am going to go	El fin de semana que viene – Next weekend	
Tú vas a comer- You(sg.) are going to eat	Tú vas a tener – You(sg.) are going to have	Tú vas a ir– You(sg.) are going to go	En cuatro días – In four days	
ÉI / Ella va a comer- He/She is going to eat	ÉI / Ella va a tener – He/She is going to have	Él / Ella va a ir– He/She is going to go	El próximo año – Next year	
Nosotros(as) vamos a comer– We are going to eat	Nosotros(as) vamos a tener– We are going to have	Nosotros(as) vamos a ir– We are going to go	El próximo mes – Next month	
Vosotros(as) vaís a comer– You(pl.)are going to eat	Vosotros(as) vaís a tener- You(pl.)are going to have	Vosotros(as) vaís a ir– You(pl.)are going to go		
Ellos / Ellas van a comer– They are going to eat	Ellos / Ellas van a tener – They are going to have	Ellos / Ellas van a ir- They are going to go		



#### **Bioinspired Design**

Bioinspired Design is a branch of design that is concerned with the study of all things living. Within the family of bioinspired design, there are 3 sub-categories:

**Textiles** 

1

Biomimicry

functions like

nature

Biomorphism <u>looks</u> like

nature

**Bioinspired** 

Design

Bioutilisation

uses nature

- Biomorphism which refers to designs that visually resemble elements from life i.e. they "look like" nature.

- **Biomimicry or Biomimetics** whereby designs focus on **function** i.e. they "work like" nature.

- **BioUtilisation** which refers to the **use** of biological material or living organisms in a design or technology.

#### **Biomorphism**

#### Stuttgart pavilion inspired by sand dollar

The humble little sand dollar served as the inspiration for this pavilion in Stuttgart, Germany. Thin sheets of plywood were laser cut and pieced together into the polygonal plywood structure.

#### **BioUtilisation**

**Perez Art Museum in Florida brings the outside, in** An example of bio utilisation is using a living wall of plants to help clean the air in an office building. The columns are meant to create a hanging forest effect that cleans the air and brightens the space.

#### Beetle inspires Dew Bank Bottle

#### Biomimicry

The Dew Bank Bottle is inspired by the onymacris unguicularis beetle. It is made in such a way that the steel body helps to assimilate the morning dew and channel it into the bottle immediately. Ideal for the nomads in the desert!

#### Mechanisms

A mechanism is a system of moving parts or components that work together to create a mechanical advantage.

The different types of **mechanical movement** are **linear**, **rotary**, **oscillating** and **reciprocating**.

It requires an **input force to** create an **output** result which is useful e.g A bicycle requires the input force of pedalling to create useful speed.

Weaver's







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#### Haggerston School

# Year 8

# **Textiles**

Embroidery Stitches

Embroidery is the act of decorating fabric or other materials using a needle to apply thread or yarn. Typically embroidery is done by hand using embroidery needles, embroidery thread and an embroidery hoop, however it is becoming more popular to use sewing machines to create designs using a technique called 'free machining'. The use of CAD further enhances the possibilities with specialist sewing machines able to sew designs which have been designed on computers.

Back Stitch

In Textiles Design we use a range of **specialist techniques** and **materials** in order to decorate textiles to make them more aesthetically pleasing and interesting. The information below explains some of the techniques you will explore this year.

#### **Using the Heat Press**

A **heat press** can be used to **transfer** an image or a design onto a **substrate** (the underlying layer). The substrate fabric e.g a t-shirt is placed on to the electronically heated "**platen**." A **transfer sheet** with the design is then positioned on the fabric. By closing the cover, the ink, adhesive, or vinyl melts *into* the fabric.



#### Applique

**Appliqué** is **decorative needlework** in which pieces or patches of fabric in different shapes and patterns are sewn or stuck onto a larger piece to form a picture or pattern. Appliqué with Bondaweb involves using a double-sided adhesive web to attach fabric shapes onto a base fabric.

A **template** is created first which enables multiple identical patterns to be cut out. The fabric is then **pinned** or attached using **bondaweb** (use the heat press to melt the fabrics together). Then using hand embroidery techniques stitch around the attached design.



From Fibre to Fabric						
The fibres are collected from the animal or	plant.					
The fibres are washed. The fibres are twisted together (spun) to for	rm a yarn.		Fabi	ric Properties	5	
The yarn is spun onto a big pool.	varn is spun onto a big pool.			Synthetic Polyester Nylon		
The yarn is woven or knitted to form fabric.	Poor Insulators Stronger when wet than dry Able to hold moisture well Hardwearing	Poor insulators Highly absorbent Hard wearing Crease easily Poor elasticity	Good insulator Good elasticity Highly absorbent Does not crease easily	Strong, hardwearing Crease resistant Easy to wash and care for	Absorbs little water Very strong and resistant to wear Very crease resistant	
	Poor elasticity			Resistant to staining	Affected by static electricity – which effects the drape	

#### **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	
<u>Compound sentence</u> : Two simple sentences joined with a <u>conjunction</u> . Both of these simple sentences would make sense on their own. Varying conjunctions makes your writing more interesting.	Effect	Consequently Therefore Thus	
He read his book <u>because</u> it was written by his favourite author.	Addition	And	
Literacy is important <u>so</u> students had an assembly about reading. Complex sentence: A longer sentence containing a main clause and one or more subordinate clause (s) used to add more detail.		Also In addition 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 to make sense. The subordinate clause is separated by a comma (s) and/or conjunction. The clause can go at the beginning, middle or end of the sentence.	Comparing	Whereas However Similarly Yet	
First thread his book even though it was late.	Comunica	As with/ equally/ Likewise	
<u>Even though it was late</u> , he read his book. He read his book, <u>even though it was late</u> , because it was written by his favourite author.	Sequencing	Initially Then Subsequently	
How can you develop your sentences?		Finally After	
<ol> <li>Start sentences in different ways. For example, you can start sentences with adjectives, adverbs or verbs.</li> <li>Adjective: Funny books are my favourite!</li> <li>Adverb: Regularly reading helps me develop a reading habit.</li> <li>Verb: Looking at the front cover is a good way to choose a reading book.</li> </ol>	Emphasis	Importantly Significantly In particular Indeed	
2. Use a range of <b>punctuation</b> .	Subordinate	Who, despite, until, if,	
<ol> <li>Nominalisation</li> <li>Nominalisation is the noun form of verbs; verbs become concepts rather than actions. Nominalisation is often used in academic writing. For example:</li> <li>It is important to read because it helps you in lots of ways.</li> <li>Becomes: Reading is beneficial in many ways.</li> </ol>		though, that, which	
Germany <b>invaded</b> Poland in 1939. This was the immediate cause of the Second World War breaking out. Becomes: Germany's <b>invasion</b> of Poland in 1939 was the immediate cause of the outbreak of the Second World War.	Hanne	rston Scho	

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# Year 8 Knowledge Organiser

# Haggerston School