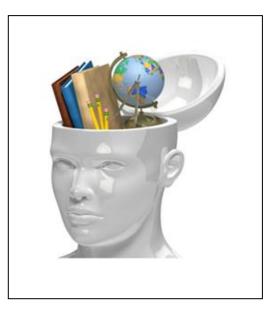


Name:

Form class:

Year 7

Knowledge Organiser Autumn Term



Instructions for using your Knowledge Organiser

Self-testing

You can use your knowledge organisers and exercise book in a number of different ways but you should not just copy from the Knowledge Organiser into your book.

Below are some possible tasks you could do in your workbooks

- Ask someone to write questions for you
- Write your own challenging questions and then leave it overnight to answer them the next day
- Create mindmaps
- Create flashcards
- Put the key words into new sentences
- Look, cover, write and check
- Mnemonics
- Draw a comic strip of a timeline

- Use the 'clock' template to divide the information into smaller sections. Then test yourself on different sections
- Give yourself spelling tests
- Definition tests
- Draw diagrams of processes
- Draw images and annotate/label
 them with extra information
- Do further research on the topic
- Create fact files
- Create flowcharts

Presentation

You should take pride in how you present your work; each page should be clearly labelled with underlined title and date. There should be an appropriate amount of work.

The Knowledge Organisers are designed to help you learn a wide range of knowledge which in turn will mean you are more prepared for your lessons as well as the new style GCSEs that you will sit in the future.

To get the most out of your Knowledge Organiser, you should be learning sections and then self testing in your workbook.

Do not just copy into your workbook

Always check and correct!



Year 7 Subject: Art - African Clay Masks

In this project you will learn to develop an idea using source material and use a range of clay techniques. You will also be researching Masks from a specific country and associating colours from a wide range of African cultures.





Relief clay process

- ✓ Manipulation
- ✓ Slab
- ✓ Score/scar
- ✓ Buttering/slip
- ✓ Pinching
- ✓ Texturing
- ✓ Patterns





Just some African Countries

Algeria, Angola, Benin, Botswana, Cameroon, Congo, Ethiopia, Egypt, Gambia, Gabon, Ghana, Kenya, Libya, Nigeria, Madagascar, Malawi, Morocco, Mozambique, Rwanda, Senegal, Sierra Leone, Seychelles, Somalia, South Africa, Sudan, Tunisia, Uganda, Zimbabwe.



Key Skills & Knowledge

By the end of the project you should have gained the skills and knowledge to be able to do the following:

- 1. Understand what is meant by Manipulating clay and Relief.
- 2. Can demonstrate how to Manipulate clay.
- 3. Successfully build/add and the joining clay pieces.
- 4. Present your work to a high standard.
- 5. Can demonstrate and apply the Manipulation of clay and Health & Safety whilst handling clay.
- 6. Know what earthly colours are popular in African cultures.
- 7. Can decorate with care and cover Mask with PVA glue once finished.
- 8. Have written in more than **20 words** on what, how and why you have done a African Clay Mask.



Year 7 Subject: Computer Science

Knowledge Organiser—Year 7 – Computing – E-safety

Section A

- E-safety- Staying safe online. Making sure that people are protected from harm of using any electronic device for online purposes.
- Email- Is shot for electronic mail. An email is sent from one computer to multiple computers through the use of email addresses.
- Malware- Short for Malicious Software. Malware can be various different programs which will try to do something unwanted to your computer.

Three Main Types of Malware:

 Virus- Like a normal common cold a virus spread from one computer to another through programs. It can work by slowing your computer down or in severe cases you could lose all your programs and documents.



and attack your device.
Worms- Very similar to viruses as they do duplicate and spread. However, they can do this hundred and thousands of times and infect other

Trojan- A Trojan horse will actually pretend to be

a useful and safe program but it actually will try



 Phishing- Trying to trick someone into handing over sensitive information through the use of emails.

computers in minutes through email attachments.

Section B

 Mobile Phone Uses-Mobile phones used in today's world allow users to send and receive text messages, emails, photos and video as well as access the Internet, play games, listen to music and many more.

Advantages of Mobiles

- Communication
- Good in Emergencies
- Alarms, reminders and notes.

Disadvantages of Mobiles

- Cyberbullying
- Spending more time online than with family.
- Sleepless nights and tiredness.
- Talking to people who are not who they say they are.

Section C

 Cyberbullying- bullying someone through any use of technology.

Types of Cyberbullying:

- Harassment: Using text messaging, instant messaging and email to harass, threaten or embarrass the target.
- Impersonating someone: Developing a screen name that is similar to the victim's screen name and then posting rude or hurtful remarks while pretending to be the victim.
- Creating Websites: Spreading rumours, lies or gossip about the victim online through websites or blogs.

Ways to Prevent Cyberbullying:

- Notice: Recognize if there has been a change in mood or behavior and explore what the cause might be.
- Talk: Ask questions to learn what is happening, how it started, and who is involved.
- Report: Most social media platforms and schools have clear policies and reporting processes. If a classmate is cyberbullying, report it the school.
- Support: Peers, mentors, and trusted adults can sometimes intervene publicly to positively influence a situation where negative or hurtful content posts about a child.





You must be able to identify a wide range of hardware, software and peripherals required to create and view multimedia.

Hardware Requirements	Use and purpose
CPUs	Central Processing Unit (CPU) is an essential part in any computer. It is considered as the brain of computer, where processing and synchronization of all activities takes place. The efficiency of a computer is judged by the speed of the CPU in processing of data. For a multimedia computer the latest processor is preferred because of its higher efficiency.
Monitors	The text or graphics in a monitor is created as a result of an arrangement of tiny dots, called pixels. Resolution is the amount of details the monitor can reproduce. Resolution is defined in terms of horizontal and vertical pixels (picture elements) displayed on the screen.
Video Cards	Video cards convert the information from the CPU into images that can be displayed on the monitor. They are have their own specialist high speed processors (Graphics Processor Unit or GPU) and have their own high speed
Sound Cards	Sound cards convert the digital representation of sound into an analogue signal that we can hear. The quality of sound reproduction is also depended on how fast and accurately the sound card converts digital to analogue.
Storage	Secondary storage, such as hard disk drives (HDD) and Solid State Disk Drives (SSD) are required to store the computer software and to save multimedia files. Peripheral storage is used to back up multimedia files, such as USB drives, CD-ROMs, DVDs or Blu-ray discs. More recent Blue-ray discs can store larger files.
Touchpads	Touchpads are commonly used for controlling photo editing by professionals. They are touch and pressure sensitive and are more accurate than mice.

This list contains some examples. You should be able to use your notes to identify other items.

Hardware, software and peripherals that are used to creates multimedia is typically different to that which is



Monitors are required to reproduce the multimedia. Photographic monitors are able to reproduce most of the colours accurately



Video cards use high speed GPUs and fast memory to do the maths needed to create high resolution, high colour depth images in fractions of a second.



SSD drives are the latest technology for storing computer files and software. They use computer chips that are faster at reading and writing data that conventional HDDs which use magnetic spinning disks.



High speed (clock speed) and multiple core CPUs will reduce the time taken to edit and produce multimedia products.



High quality sound cards are needed for professional audio recording and playback. They will have several inputs for instruments, microphones and outputs for monitors.



Touchpads are specialist input devices that are used predominantly for photo editing. They use a pen to select and mark-up edits. They are more flexible than mice and sense how hard the pen is pushed



Year 7 Subject: Computer Science

You must be able to identify a wide range of hardware, software and peripherals required to create and view multimedia.

Peripheral Devices

A peripheral device is something that can be added to a computer that has a specific purpose. Its purpose will be to add additional functionality or to aid a computer system with a specific task.

Peripheral devices are typically hardware systems that are considered to be auxiliary (provides help or support) to a system, for examples, a multimedia computer.

Peripheral devices can be input devices, output devices or a combination of output and input devices known as hybrid devices.



Multi function devices are examples of hybrid peripheral devices. They are not just printers because they are also have scanners built into them. A scanner is used to create a digital image of a document or photograph which can be then edited in multimedia software. Many will be able to produce photographic quality prints.

A peripheral device is essentially any device that can be unplugged from a computer system, such as; mice, cameras, speakers, video cameras, microphones or keyboards. These provide a specific purpose, they are generally easy to upgrade as technology improves. For example, external hard drives are becoming faster and are increasing in storage capacity.

Examples of Audio Software



Audacity: Free audio editing software. Ideal for creating podcasts.



Adobe Audition: Professional Audio editing for studio broadcast quality music and voice.



Spotify: Streaming audio playback software.



iTunes: Audio file online purchase and playback software





Blender: A free multiplatform video editing software for 3D animation and modelling.



Adobe Premiere Pro: Industry standard professional video editing used for broadcast quality programmes and movies.

Final Cut Pro: Apple Mac professional video editing software.



iMovie: Apples consumer video editing software that is available iPhone, iPad and Mac

Examples of Image Software



Adobe Photoshop: Leading software for editing and creation of bitmap images.



Adobe Lightroom: Leading software for developing digital photographs.



Capture One: Professional photographer image capture and editing of large digital photographs.



Adobe Illustrator: Leading software for editing and creation of vector images.



Introduction to Drama Year 7

Key Terminology	Definition
Still Image	Being frozen during a performance to highlight a key moment.
Facial Expressions	Using your facial features to show emotion to the audience.
Blocking	Ensuring you are not covering your own face from the audience.
Posture	The alignment of your body/back to show emotion and status.

Assessment Question:

How can you apply a variety of performance skills and theatrical conventions to entertain a young audience.

The Six Golden Rules of a Still Image:

- Still
- Silent
- Facial Expressions
 - Body Language
 - Levels
 - Focus



Jack and Jill

Jack and Jill went up the hill To fetch a pail of water; Jack feel down and broke his crown,. And Jill came tumbling after.

Up got Jack and home did he trot, As fast as he could caper; Went to bed and bound his head, With vinegar and brown paper.

When Jill came in how she did grin To see Jack's paper plaster; Mether vexed, did whip her next; For causing Jack's disaster.



How to Learn Lines





Reading Material





Context:

YEAR: 7 SUBJECT: Greek Myths

		~ Ancient Gree	ce was 2,500 years ago. They lived in Greece and other countries around the Mediterranean Sea. It was a time of great thinkers, warriors, writers, actors, athletes, architects and politicians.				
Versatile Vocabulary							
Mortal/Immor	tal/Immor Will die/Will live ~ The		ods, myths and philosophies are still used in literature and films today.				
tal	forever						
Protagonist/A Main		The Primordi	ial Deities				
ntagonist	character/Opponent or	Chaos	Personified as female, the primal feature of the universe				
<u> </u>	enemy	Erebus	Son of Chaos, personified chaos and darkness				
Stable/Unstab	Unlikely to change/Likely to	Nyx	Daughter of Chaos, personified night				
le	change	Gaia	Daughter of Chaos, personified earth, Mother of Ouranus and Titans.				
Immoral/Mor	Bad behaviour/Good						
al	behaviour		Punished Ouranus for putting their 3 children in Tarturus by asking Chronus to castrate him.				
		Tartarus	Son of Chaos, personified hell. Where Gods imprisoned their enemies.				
Oppressed/Em	Freedoms	The Titans					
ancipated	limited/Freed from restrictions	Ouranus	Created by Gaia, personified the sky. Father of 1 st generation Titans. Imprisoned 3 youngest in Tartarus. Castrated by his son Chronus.				
Uncivilised/civ	Cruel or rude	Chronus	Son of Gaia and Ouranos, god of the harvest. Threw body parts of his Father in the sea, from which Aphrodite was born. Ruled with his sister Rhea as King and Queen. Swallowed all his children to				
ilised	behaviour/Calm, polite, fair		prevent losing power. Rhea hid son Zeus in Crete, who eventually overthrew him. Ticked into swallowing a stone and vomited back his own swallowed children				
Captivity	Imprisoned, trapped	Rhea	Daughter of Gaia and Ouranos, goddess of female fertility. Sister and wife of Chronus, and the mother of 1 st generation of the Olympian gods (Hestia, Demeter, Hera, Hades, Poseidon, and Zeus). Known as the "Great Mother"				
Monstrous	Huge, powerful, ugly,	Prometheus	Champion of mankind. Sided with Zeus and the Olympians. Tricked Zeus into eating bones wrapped in fat, which became the original sacrifice to the Gods. Zeus stole fire from Mankind and				
	frightening		Prometheus gave it back. Punished by Zeus. Chained to a rock for eternity where an Eagle would eat his liver every day after it regenerated.				
Vengeance	Harming someone who harmed you	Epimetheus	Brother of Prometheus & lacked intelligence. Received Pandora as a gift from the Gods.				
Duplicitous	Two faced, a liar	•					
Deceive	Make someone believe	Atlas	Sided against the Olympians in the war. Punished by Zeus to hold up the sky for all eternity on his shoulders.				
	a lie	The Olympia					
Barbaric	Extremely cruel	Zeus	Vengeful King of the Gods. God of the sky and thunder. Overthrew Titans. Punished Prometheus. Athena born from his head. Had children with various wives.				
Tyrant	A cruel and unfair ruler	Poseidon	God of the Seas. Violent and ill-tempered. Competed with Athena for Athens and lost.				
Impotent	No power	Hera	Goddess of Marriage. Tricked by Zeus into marriage. Tried to rebel against him by having him tied up, but later turned her wrath on Zeus's lovers. Tricked Hercules to kill his own children.				
Subversive	Destroy the authority	Hade	God of the Underworld. Abducted Persephone (Demeter's daughter) because he fell in love with her.				
	of leader	Demeter	Goddess of the Harvest, the cycle of life. Mother of Persephone.				
Disobedient	ignore instruction Hatred towards women	Persephone	Queen of the Underworld and fertility. Daughter of Demeter and Zeus. Abducted by Hades and imprisoned in the Underworld for 6 months of the year, creating the seasons.				
Misogyny	natred towards women	Hephestus	Blacksmith God. Married to Aphrodite, who had an affair with Ares.				
Innocent	Did not commit a crime	Artemis	Goddess of the hunt and the moon. She guarded her chastity through her whole life. Actaeon the hunter saw her bathing naked. She transformed him into a stag and set his hounds against him.				
		Artenns	She killed her only potential lover Orion for trying to remove her clothes.				
Wild	Not controlled	Athena	Goddess of wisdom, war and crafts. Never swayed by love or passion. Competed with Poseidon to be patron of Athens. She planted an olive tree, which the King judged as superior. Competed with				
Naïve	Lack experience, expect	Adricita	Arachne at weaving and turned her into a spider. She also became the main helper of heroes.				
	things to be easy	Aphrodite	Goddess of love and beauty. Created from Ouranus' body parts. Object of desire of all the other Gods. Zeus married her to Hephaestus. Had affairs with Ares, Poseidon and Hermes. Mortals fell in				
Enchanted	Delighted by		love with her.				
Superficial	Do not think deeply	Hermes	Messenger God. Capable of crossing boundary between living and dead. Ushered souls to the underworld.				
		Apollo	God of music, sun, poetry & truth.				
Avaricious	Greedy for money	Dionysus	God of wine, madness and theatre. Only				
Exploit	Treat you unfairly, give	, Nymphs	Beautiful creatures, most often young women, who had some of the powers of gods.				
	you little in return		, , , , , , , , , , , , , , , , , , ,				
Manipulate	Persuade you to do	Heroes	Son of Zours and Danasa Slaved the Medura assisted by Athena Assistive locked Devrous and Danas is a short and floated them to son. A fishermore District task them is and to the themeter				
	what they want	Perseus	Son of Zeus and Danae. Slayed the Medusa, assisted by Athena. Acrisius locked Perseus and Danae in a chest and floated them to sea. A fisherman Dictys took them in and looked after them. Polydectes ruled the island and wanted to marry Danae, but wanted to get rid of Perseus. Polydectes asksed Perseus to slay the Gorgon Medusa and bring back her head as a gift and he agreed.				
Cruel	Causes deliberate pain		Perseus received a mirror-like shield for his journey, to avoid looking into the Gorgon's eyes, which turned men into stone.				
		Uaradaa					
Victim	Suffered due to	Heracles	Cursed by Hera. Son of Zeus and Alcmene. Zeus disguised himself as Alcmene's husband to get her in bed. Brought by Athena to Hera (in spite of her hatred) and fed by her. Her milk gave him				
	someone's actions		superhuman powers, but he suckled so strongly Hera pushed him away and her milk sprayed the sky, which created the stars. Killed his own children. Gained immortal glory by completing 12				
Reconciliation	Two enemies become friends		labours. 1) Slay the Nemean Lion; 2) Slay the nine-headed Hydra; 3) Capture the Golden Hind of Artemis; 4) Capture the Erymanthian boar; 5) Clean the Augean stables in a day; 6) Capture the Cretan Bull; 9) Steal the Mares of Diomedes; 10) Obtain girle of Hippolyta; 11) Obtain the cattle of the monster Geryon; 12) Steal the apples of the Hesperides; 12) Capture and bring back Cerberus.				
Annihilation	Total destruction		Creation buil, of stear the mares of Diometes, 10, Obtain give of hippolyta, 11, Obtain the tattle of the monster Geryon; 12, stear the apples of the nespendes; 12, Capture and bring back Cerberus.				
		Achilles	The Greek hero of the Greek side in the Trojan war. He kills the Trojan hero Hector outside the gates of Troy. He is finally defeated and killed by an arrow to the keel, his one weakness. This is				
Authentic	Deep and important		where we get the phrase Achilles heel.				



Year 7: Food Technology

In this project you will learn to use **The** practical activities which involve food preparation and cooking will give student an insight into the role of different types of chefs. For example, within the kitchen brigade, they are the executive head chef, sous chef, chefs de partie, commis chef, butcher, vegetable chef, fry chef, cold food and pantry chef, grill chef, pastry chef, fish chef, roast chef and sauté chef. Some of the job roles (e.g. executive chef and sous chef) are suited for the higher attainers in the subject and these student will be given leadership responsibilities. These skills required by chefs will be developed by students following recipes to make dishes using a variety of commodities. These activities will be supported by teacher demonstrations and video clips.

Key Vocabulary

Equipment	Food Safety
Knife	Use by date
Table spoon	Best before date
Butter Knife	Frozen Food
Measuring Jug	Chilled Food
Chopping Board	High risk foods
Saucepan	Low risk foods
Mixing Bowl	Salmonella
Wooden Spoon	E Coli
Frying pan/Wok	Vitamins & Minerals
Food Mixer	Carbohydrates
Baking tray	Gluten in
Rolling Pin	Gluten

Weighing and measuring are skills needed by food scientist and chefs and are practised during the mise en place stage of cooking. This is facilitated by teacher demonstrations and students following recipes. The investigative work done on the impact of cooking methods on nutritional value also links to the job role of a food scientists.

By studying about nutrients and healthy eating using the Eat well guide as a framework, students are to the role of a dietitian and a nutritionists. These lessons will be delivered through home learning, group work activities, power points presentations and a visiting speaker.

Researching where our food comes from give students the opportunity to hone the skills of a food writer, culinary librarian and food journalist. This piece of work will be done through classwork (market place activity and home learning.

Food presentation skills are encouraged by adding a finishing technique to dishes made. This is within the remit of a food stylist, food photographer, food artist as well as a molecular gastronomist.

Students practise being a health and safety officer when conducting risk assessment of the food room before their practical tasks. Through role play, students will study the role of an Environmental Health Officer. Linked to these two careers, is the unit of work on health and safety and bacteria and food poisoning.

Conducting sensory analysis gives students insights into the job of a food taster and a quality assurer. This activity is conducted after practical activities in class as well as at home.

Careers in the hospitality industry include managers, administrators, front house staff as well as back house staff. These careers are studied at KS4 through power point presentations, trips, role plays, independent work and home learning activities.

Key Skills & Knowledge By the end of the project you should have gained the skills and knowledge to be able to do the following: Preparing for a practical including health and safety Weighing and measuring Eat well guide Assessing diet sheets Make recommendations for healthy eating Practical activities –making food dishes Sensory analysis

Influential Chefs Gordon Ramsey, Jamie Oliver







	Classroom Language							
1	il faut parler en français you must speak in French		16	j'adore le français	I love French			
2	il faut lever la main	you must raise your hand	17	c'est lundi	it's Monday			
3	il faut écouter le prof	you must listen to the teacher	18	j'ai fini mes devoirs	I've finished my homework			
4	il faut faire les devoirs	you must do your homework	19	je suis fatigué(e)	l'm tired			
5	il ne faut pas parler en anglais	you must not speak in English	20	je suis malade	l'm ill			
6	il ne faut pas arriver en retard you must not arrive late		21	j'ai beaucoup de devoirs	I've got lots of homework			
7	ça va?	how are you?		il fait beau	lt's nice weather			
8	ça va bien	l'm well		il fait mauvais	lt's bad weather			
9	ça va formidable	able l'm great		est-ce que je peux	can l			
10	ça va super l'm super		25	m'asseoir	sit down			
11	ça ne va pas	l'm not well	26	faire les points	do the points			
12	ça va mal I feel bad		27	partir	leave			
13	ça va fatal	ça va fatal l'm awful		avoir un point	have a point			
14	bof	ОК	29	répondre à la question	reply to the question			
15	parce que	because	30	parler en anglais	speak in English			



	Classroom Language							
31	1 être volontaire be a volunteer		46	j'ai envie de	l want			
32	avoir un mouchoir	have a tissue	47	on va chanter	we are going to sing			
33	ramasser les cahiers	collect the books	48	on va écouter	we are going to listen			
34	changer	change	49	on va parler	we are going to speak			
35	je suis	l am	50	j'ai gagné	l won			
36	cool	l cool		51 j'ai perdu				
37	sympa	nice	nice 52		l agree			
38	timide	shy	53	je ne suis pas d'accord	I don't agree			
39	intelligent(e)	clever	54	c'est correct	it's right			
40	amusant(e)	amusant(e) funny		ce n'est pas correct	it's not right			
41	sportif/ve	sporty	56					
42	travailleur/se	hardworking	57					
43	bavard(e)	chatty	58					
44	tranquille	calm	59					
45	fantastique	fantastic	60					



Year 7 Autumn 1

Geography of the UK and beyond

The United Kingdom

- The world is made up of 7 continents (South America, North America, Europe, Africa, Asia, Oceania/Australasia, Antarctica and Antarctica).
- The United Kingdom is made up of four countries (England, Wales, Scotland and Northern Ireland). London is the capital city of the United Kingdom.
- The UK is located in the continent of Europe.
- Europe is the 3rd largest continent in population but only 6/7 for space.

Each continent has different features:

- The continent with the biggest population and land mass is Asia.
- Asia's current population is 4.6bn.
- The climate in Asia can range from tundra to tropical.
- In the north of Asia, the climate is mainly tundra.
- In the South of Asia in countries such as India and Indonesia the weather is mainly tropical.
- North America is bigger in landmass and population compared to South America.
- The UK is in Europe which has a mainly deciduous climate.

How and why might population size of continents change in the future?

- *Climate change*. Land is flooded, leaving less space for more people. Mass migration.
- Natural disasters. Areas are unsafe to live in, mass migration, overcrowding in other countries.
- Natural increase. World population increases, less space for more people.
- **Diseases like Corona Virus**. Some continents (LIC's/poor continents) suffer more.
- *Increased wealth.* As some continents like Asia get wealthier they can build more cities.

How to describe locations using physical and human features.

- 1. Use compass points to state what the location is next to
- 2. State the physical features in the area
- 3. State the human features in the area.

Types of settlement:

Hamlet-one or two farms with large space in-between.

Village: small settlement, with a population of up to a few thousand people. They are usually surrounded by rural fields and forest.

Town: Urban settlements with populations of up to over 10,000 people.

City: large urban settlements made up of different neighbourhoods. If a city has a population of over 10 million, it is known as a Megacity. The UK has many cities – the largest is London.

Urban - A built up area (e.g. town or city)

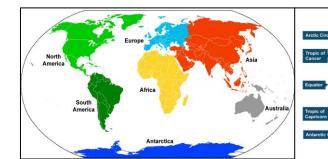
Rural - A sparsely populated area (such as a village or hamlet)

Human Geography of London.

- At risk of flooding due to urban development and climate change.
 - Not enough houses to meet demand.
- Densely populated resulting in unemployment.
- London is nearly a megacity-9.6m people.
- Lots of cultural events e.g. Notting Hill Carnival.

Physical Geography of London.

- Lowland area
- Area is easy to build on as it is flat.
- UK's second longest river, River
- Thames 215miles long
- Easily flooded due to being flat.
- Thames Barrier has been built to prevent flooding.







Human Geography of the UK

Human features have been created by humans (towns cities roads and railways).

- London (city)
- Birmingham (city)
- M1
- M25



Physical Geography of the UK

Physical features are natural features of the land that have not been created by humans (*rivers, lakes, mountains and oceans*). Physical features are shown on a relief map. Relief is the geographical word that tells us the lay of the land (slope steepness, altitude (height above sea level).

- Ben Nevis, Scarfell Pike, Showdown
- River Thames, River Trent

How does the physical and human landscape affect where people in the UK live?

Physical factors:

- Flat land is easier to build on/farm.
- The south has warmer drier climate, this is ideal for farming.

Human factors:

- In the South of England is the capital city London, this provides more job opportunities, social activities and entertainment.
- Best Universities in the UK are in the South, Cambridge and Oxford.

Better transport links, making it easier to travel and see people. By 2040, 70% of the UK will live in urban areas. Do you think this is a good idea or do you think more people should live in rural areas?

- Isolation during pandemics like COVID vs. better access to technology and wi-fi-homeschooling during lockdown.
- Protecting areas for nature vs. overcrowding in cities and towns.



What was Constantinople in the 10th century?

- Cities in the year 1000 could be large and diverse. Constantinople was possibly the grandest of these cities
- Constantinople possessed many features of ancient Rome, including a hippodrome where games would be practiced
- Constantinople was a storehouse for ancient texts from Ancient Greeks. Works by thinkers like Euclid were translated here
 - Constantinople was a natural center of gravity between East and West
 - Christianity had become the dominant religion in Europe by 1000
- Constantine's acceptance of Christianity allowed the religion to physically manifest across Europe, through the building of churches
- Christianity in Constantinople had developed differently to Christianity in Latin Christendom. The most obvious point of difference was the presence of a Pope in Rome and a Patriarch in Constantinople
- The churches of Constantinople and the wider Byzantine Empire allowed for relics to be stored and the practice of Christianity to be formalized
 - Other powers had attempted to conquer Constantinople for hundreds of years
 - By the year 1000 Constantinople was no longer the powerhouse it had once been
 - Constantinople was threatened in both the East and the West



Year 7 History Term 1



Map A - A political map of Europe in the year 0 (2000 years ago). The red calour represents the Roman Empire, it was at this time that the Roman Empire was at its mast gowerful. As you can see, almost all of Europe was controlled by the Romans!



Map 8 - A political map of Europe in the year 400 (1600 years ago). The red colour regresents the Roman Empire, but you can see that they are considerable less gowerful than they had been 400 years earlier. Rome has also split into an Eastern half and a Western halt. The Eastern half is coloured gurple, and its copital is in Constantinaple.



Map C - A political map of Europe in the year 600 (1400 years ago). The Roman Empire has callapsed and no longer exists. Meanwhile the Eastern Roman Empire is now called the Byzantine Empire and is increatibly powerful. Western Europe is made up of lots of different kingdams known collectively as Latin Christendom.



Unit 1 – Numbers and Numerals					
No.	Question	Answer			
1.1	What is analogue display?	Like a clock face			
1.2	What is digital display?	Using digits			
1.3	How many digits do 24 hour clocks always have?	2			
1.4	What does am mean?	Morning			
1.5	What does pm mean?	Afternoon			
1.6	With which clock do you use am and pm?	12 hour clock			
1.7	How many seconds in a minute?	60			
1.8	How many minutes in an hour?	60			
1.9	How many hours in a day?	24			
1.10	Write the following in order from biggest to smallest? Minutes, days, seconds, hours	Days, hours, minutes, seconds			
1.11	What does > mean?	Greater than e.g. 3 > 2			
1.12	What does < mean?	Smaller than e.g. 2 < 3			
1.13	What does = mean?	Equal to			
1.14	What is place value?	The value of where the digit is in the number			
1.15	How do you write one?	1			
1.16	How do you write ten?	10			
1.17	How do you write one hundred?	100			
1.18	How do you write one thousand?	1000			
1.19	How do you write ten thousand?	10,000			
1.20	How do you write one hundred thousand?	100,000			
1.21	How do you write one million?	1,000,000			



	Unit 2 – Axioms and Arrays				
No.	No. Question Answer				
2.1	What is multiplication?	Equal groups, parts of measures			
2.2	2.2 What is division? Splitting into equal parts				
2.3	2.3 What is commutativity? The operation can be applied to two numbers in any order				
2.4	2.4 What two operations are commutative? Multiplication and addition				
2.5	2.5 What is associativity? Grouping numbers to make the calculation easier				
2.6	2.6 What is distributivity? Multiplying a number by a group of numbers added together				
2.7	What is a conjecture?	An educated guess			

	Unit 3 – Factors and Multiples					
No.	No. Question Answer					
3.1	What is a factor?	A factor of a number divides that number exactly leaving no remainder				
3.2	What is a prime number?	A prime number has 2 factors, itself and 1				
3.3	What is an abundant number?	The sum of an abundant number's factors is larger than itself				
3.4	.4 What is a square number A square number is the result of multiplying an integer by itself					
3.5	What is a multiple?	Multiples of a number are found in the number's times-table				
3.6	What is co-prime?	Two numbers are co-prime if they have no common factors others than 1				
3.7	What is a counter example?	An example which contradicts the original statement				
3.8	What are twin primes?	We call two numbers twin primes if they are prime numbers which have a difference of 2				
3.9	Perfect number	A perfect number can be written as the sum as all of its factor				



	Unit 4 – Order of Operations					
No.	No. Question Answer					
4.1	Which operation has equal priority with addition?	Subtraction				
4.2	4.2 Which operation has equal addition with multiplication? Division					
4.3	What do brackets mean?	Do this part first!				
4.4	How do you find the area of a rectangle?	Base x perpendicular height				
4.5	4.5 What does the vinculum mean? Divide the numerator by the denominator					
4.6	What is a variable?	A letter which represents an unknown number				



MAD T-SHIRT – How every piece of music is constructed

М	ELODY	RTICULATION		ТЕМРО
Range – Sequence Ascendin Scalic or movemer Steps or Ornamen	e Sustair g/descending Stab broken chord Stacca ht Legato eaps Slurred	picking Pianissimo Piano Mezzopiano Mezzoforte Forte Fortissimo to/arco Crescendo Diminuendo	bar Tempo Accellerand rallentando	do/
STRUCTURE	HARMONY	INSTRUMENTS	RHYTHM	TEXTURE
How many sections What order Which sections are the same Ternary form: ABA 12-bar blues Pop song structure: intro/verse/chorus/bridge/ outro	Major or minor Inversions Consonant or dissonant Key change Added notes in chords Harmonic rhythm Drone/pedal note 'Blue' notes	Strings: violin/viola/cello/double bass/harp Woodwind: flute/oboe/clarinet/bassoon/piccolo Brass: trumpet/hom/ trombone/tuba Percussion: timpani/snare/ cymbals (and many others) Voices: soprano/alto/tenor/bass Keyboards: piano/harpsichord/ organ/synthesiser Rock/pop: electric/acoustic guitar/ bass guitar, drumkit, loops/samples	Duration: long or short notes Even or uneven rhythms Dotted rhythms Triplets Syncopation On a particular beat of the bar Rests/pauses Rhythmic ostinato/riff	Note or chord Bass/chords/melody Thick/thin Simple/complex Melody + accompaniment Countermelody Parallel/contrary motion Unison Imitation Call & response

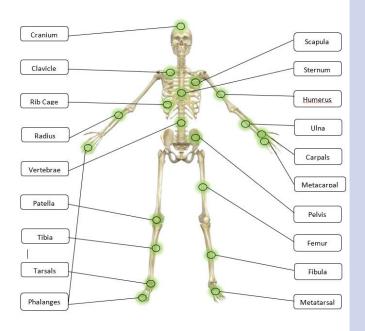




Component		% of overall GCSE	(9-1) in Physical	Education (J587))
		A01	AO2	AO3	AO4
1: Physical factors affecting performance		12.5	10	7.5	0
	Assessment Objectives				
A01	Demonstrate knowledge and understanding of the factors that underpin performance and involvement in physical activity and sport.				ance and
AO2	Apply knowledge and understanding of the factors that underpin performance and involvement in physical activity and sport.				
AO3	Analyse and evaluate the factors that underpin performance and involvement in physical education and sport.			hysical education	



The Skeletal Structure



1. Support – the skeleton keeps the body upright and provides a framework for muscle and tissue attachment.

The Skeletal Functions

- 2. Posture the skeleton gives the correct shape to our body.
- 3. Protection the bones of the skeleton protect the internal organs and reduce the risk of injury on impact. For example, the cranium protects the brain, the ribs offer protection to the heart and lungs, the vertebrae protect the spinal cord and the pelvis offers protection to the sensitive reproductive organs.
- 4. Movement the skeleton allows movement of the body as a whole and its individual parts. The bones form joints and act as levers, allowing muscles to pull on them to produce movement. The bones of the skeleton provide surfaces for the attachment of muscles.
- 5. Blood cell production certain bones in the skeleton contain bone marrow which produces red blood cells, white blood cells and platelets. Examples of bones that contain marrow are the pelvis, sternum, humerus and femur.
- 6. Storage of minerals the bones store minerals such as calcium, iron, potassium and phosphorous and release them into the blood when the body needs to use them.



Synovial Joint Structure (Freely Moveable Joints)

Synovial joints (freely movable joints):

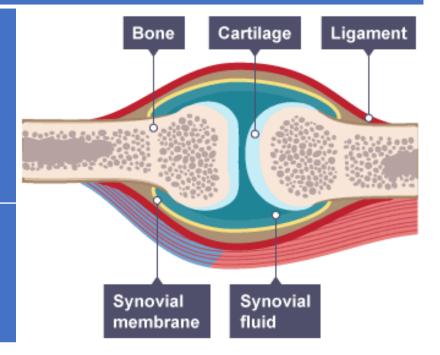
- Enable the free movement to perform skills and techniques during physical activity.
- Have synovial fluid in the joint cavity that lubricates or 'oils' the joint, so it moves smoothly. Synovial fluid is made by the synovial membrane.
- The ends of the bones are covered with cartilage which cushions the joint and prevents friction and wear and tear between the bone ends. Cartilage is a soft, spongy connective tissue.

Ligaments:

- Connect bone to bone to keep the joint together.
- A connective tissue and are tough, fibrous and slightly elastic.
- Stabilise the joints during movement and prevent dislocation by restricting actions outside the normal joint range.
- Absorb shock because of their elasticity, which protects the joint.
- Help maintain correct posture and movement.

Tendons:

- Connect muscle to bone.
- Are very strong, inelastic connective tissues.
- Allow movement at a synovial joint by attaching the muscles across the joint to pull a bone.

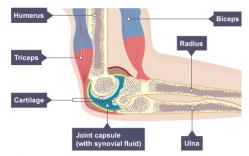




Four Synovial Joint

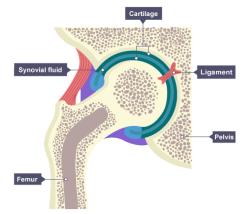
Elbow joint

- Hinge joint.
- Articulating bones are humerus, radius and ulna.
- Allows bending (flexion) and straightening (extension).
- Muscles which move the elbow are biceps and triceps.



Hip joint

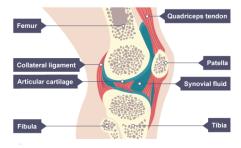
- Ball and socket joint
- Articulating bones are pelvis and femur (head of femur is 'ball' and cup in pelvis is 'socket')
- Allows a large range of movement in all directions
- Many muscles are used to move the hip joint, including the gluteals



Knee joint

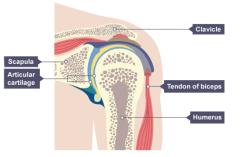
Hinge joint.

- Articulating bones are femur and tibia (the patella is not classed as part of the joint, nor is the fibula).
- Allows bending (flexion) and straightening (extension).
- Muscles which move the knee are quadriceps and hamstrings.



Shoulder joint

- Ball and socket joint.
- Articulating bones are humerus and scapula (the clavicle is not part of the shoulder joint).
- Allows a great range of movement in all directions.
- Many muscles are used to move the shoulder joint, including the deltoid, trapezius and latissimus dorsi.





Types of Joint Movement	<u>Hinge Joint</u>	Ball and Socket Joint	
 Flexion: The decrease in the angle around a joint. Extension: The increase in the angle around a joint. Abduction: The movement of a limb away from the midline of the body. 	Flexion: The elbow flexes when performing a biceps curl. The knee flexes in preparation for kicking a ball.	 Flexion: The hip joint occurs when the femur (upper leg) moves forwards, which happens when long jumpers land or at the end of kick in football. Extension: The shoulder occurs when the humerus moves backwards from the rest of the body, which happens at the end of the pull stroke in front crawl. 	
Adduction: The movement of a limb towards the midline of the body. Rotation: The turning of a bone about its longitudinal axis within a joint. (Rotation towards the midline of the body is called medial rotation, while the rotation away from the midline of the body is called lateral rotation).	Extension: The elbow when throwing a shot put.	 Abduction: The hip and shoulder joints during a jumping jack movement. Adduction: The hip and shoulder, returning the arms and legs back to their original position from a jumping jack movement. Circumduction: The shoulder joint during an overarm tennis serve. 	
Circumduction: The combination of flexion, extension, abduction, adduction and rotation – a circular movement of a limb at a joint.		Rotation: The hip joint in golf while performing a drive shot.	H are





1.1b – The Structure and Function of the Muscular System

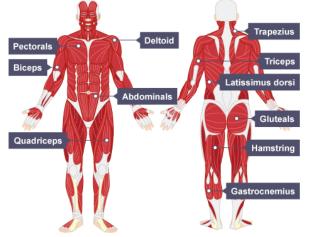
Component		% of overall GCSE (9-1) in Physical Education (J587)					
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AO3	Analyse and evaluate the factors that underpin performance and involvement in physical education and sport.				hysical education		



Year 7 Subject: GCSE Physical Education

1.1b – The Structure and Function of the Muscular System

The Muscular Structure



Involuntary, Voluntary and Skeletal Muscles

Involuntary muscles are not under our conscious control which means we can't make them contract when we think about it.

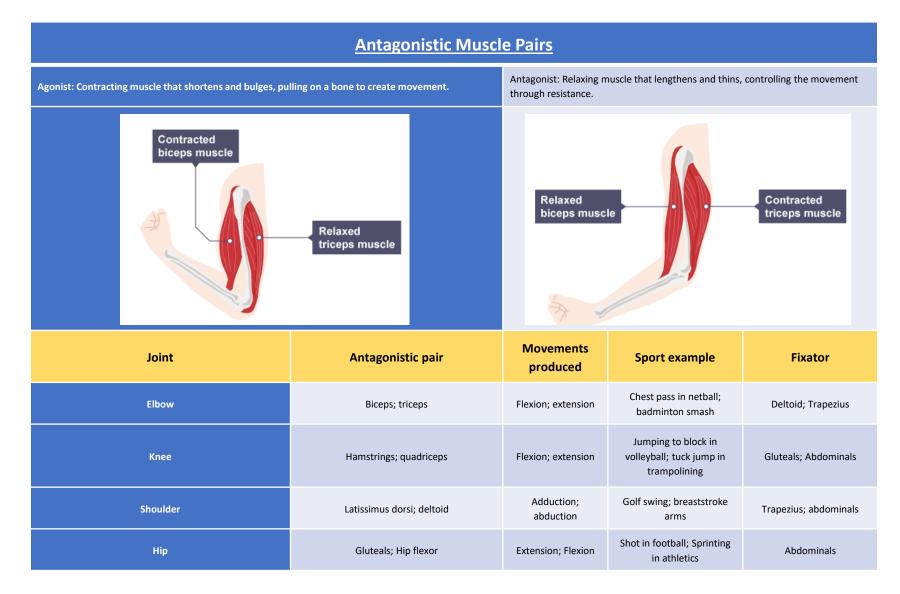
Voluntary muscles are under our conscious control so we can move these muscles when we want to. These are the muscle we use to make all the movements needed in physical activity and sport.

- 1. Smooth muscle: found in the internal organs and blood vessels (involuntary).
- 2. Cardiac muscle: found only in the heart (involuntary).
- 3. Skeletal muscle: attached to the skeleton (voluntary).

Muscle	Function	Example in Sport
Deltoid	Lifting the arm at the shoulder (the deltoid muscle has different parts which flex, extend and abduct the shoulder joint)	Lifting the arms to block in volleyball; upward arm swing when trampolining
Trapezius	Shoulder horizontal extension (moving the arms backwards at shoulder level)	Preparation phase of an overarm throw or badminton smash
Pectorals	Adduction of the shoulder (moving the arm towards the body); Shoulder horizontal flexion (moving the arms forwards in front of the body)	Upwards phase of a press up; rugby player making a tackle
Triceps	Extension of the elbow (straightening the arm)	Shooting and chest passing in netball (execution phase)
Biceps	Flexion of the elbow (bending the arm)	Drawing a bow in archery; 'backscratch' position during tennis serve
Abdominals	Flexion of the spine (sitting upwards)	Performing a sit up or a forward roll
Latissimus dorsi	Adduction of the shoulder (moving the arm down towards the mid-line of the body)	Hitting in hockey – left shoulder during preparation, right shoulder during execution and recovery
Gluteals	Hip extension (moving the femur backwards)	Pulling leg back at the hip before kicking a ball
Quadriceps	Extension of the knee (straightening the leg)	Kicking a ball (execution and recovery phase)
Hamstrings	Flexion of the knee (bending the leg)	Performing a hamstring curl on a weights machine; preparation phase of a rebound jump in basketball
Gastrocnemius	Plantar flexion of the ankle (pointing the toes downwards)	Standing on tiptoe to mark a shot in netball or pointing the toes during a gymnastic or dance move



1.1b – The Structure and Function of the Muscular System





1.1b – The Structure and Function of the Muscular System

Fixators: Support and stabilise

The trapezius muscle can act as a fixator when the biceps is flexing the elbow joint.

The abdominals can act as fixators to stabilise the body for hip and knee movements.

Exam Question: Describe how the antagonistic muscle pairs are working at the elbow during the downwards and upwards phase of a press up.

During the downwards phase, flexion occurs at the elbow. The biceps are the agonist, and they contract, and the triceps are the antagonist relaxing and lengthening to stabilise the movement by adding resistance so the body is lowered under control down towards the floor. During the upwards phase, the triceps are the agonist and contract, shortening and bulging to pull the ulna creating extension at the elbow. The biceps are the antagonist, relaxing and lengthening stabilising the movement

Antagonistic Muscles Pairs in Action



Preparation and execution and recovery phase in football

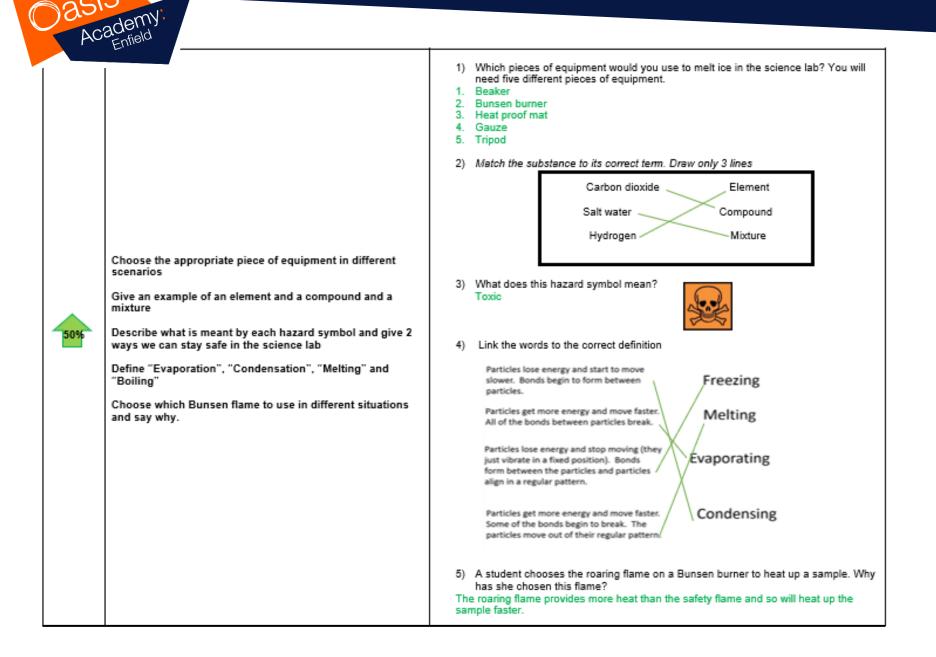
In the preparation phase, when a footballer prepares to kick a football, their hamstrings contract to flex the knee while the quadriceps lengthens to allow the movement. The hamstrings are the agonist and the quadriceps are the antagonist.

In the contact and recovery phase, the quadriceps contract to extend the knee while the hamstrings lengthen to allow the movement. The quadriceps are the agonist and the hamstrings are now the antagonist.

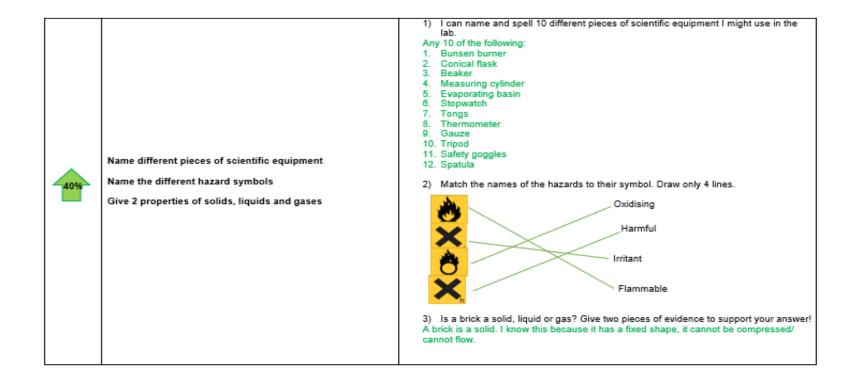
The abdominals would be acting as fixators.

Year 7 Science

Autumn 1: Particles









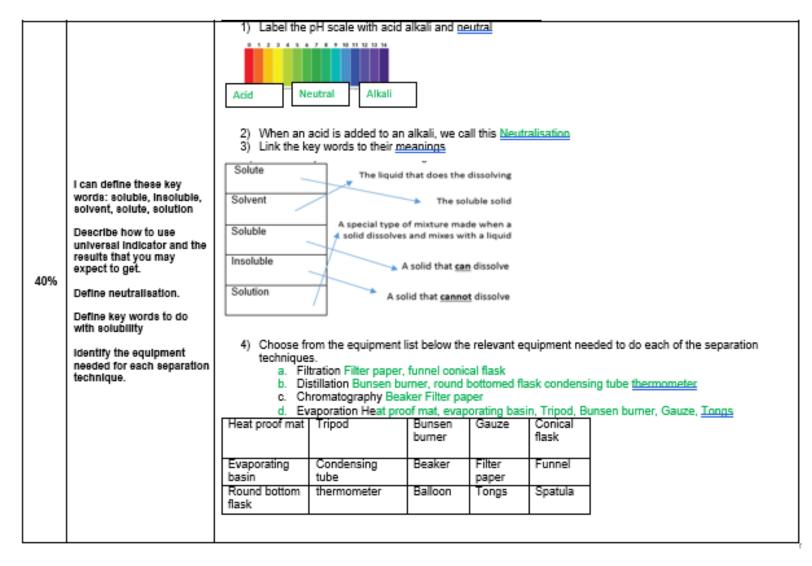
Year 7 Science: Particles

		 Would you use a beaker or a measuring cylinder to measure 55ml of milk? 				
		Explain your answer. You would use a measuring cylinder because it is more precise				
		The man are a meaning sympton strategies in a more preside				
		Describe the changes that happen to the particles in an ice cube as it melts.				
	Explain why you would choose to use a piece of	The particles start off vibrating on a fixed spot and they are not free to move. As the				
	equipment linking to scale, accuracy and precision	ice cube melts the particles get more energy and begin to move faster. The bonds between the particles begin to break and they move out of their regular pattern and				
		slowly roll past each other. The ice cube has now melted into a liquid.				
	Explain how the particles in a substance change as it					
	changes between the three states e.g. as it turns from solid to liquid and then liquid to gas	3) What is found within the nucleus of an atom of Hydrogen H?				
70%	solid to liquid and their liquid to gas	The nucleus of a hydrogen atom contains one proton, which is a positively				
	Describe what is found within the nucleus of an atom	charged subatomic particle and one neutron, which is a subatomic particle that has no charge (neutral).				
	Line gerraef sumbole for 45 most semments used	nas no unarge (neural).				
	Use correct symbols for 15 most commonly used elements	4) Write the symbols for Lithium, Sodium, Magnesium, Potassium, Calcium,				
	olelilolito	Iron, Cobalt, Nickel, Copper, Helium, Carbon, Hydrogen, Nitrogen, Oxygen				
	Link particle arrangement to properties of solids, liquids	and Chlorine Lithium= Li, sodium= Na, magnesium= Mg, potassium= K, calcium= Ca, iron= Fe,				
	and gases	cobalt= Co, Nickel= Ni, Copper= Cu, Helium= He, Carbon= C, Hydrogen= H,				
		Nitrogen= N, Oxygen= O, chlorine= Cl				
		 Mr Holmes says a solid can be compressed. Is he correct? Explain your answer in terms of particles. 				
		He is not correct. A solid cannot be compressed because there are no gaps				
		between the particles as they are tightly packed together in a fixed position.				
		 Add particles to these diagrams to represent the 3 states. 				
		Solid Liquid Gəs				
		 Which is an element, compound and which is a mixture? 				
		A = Element B = Compound				
		C = Mixture				
	Draw a model to show the particles in a solid, liquid and	3) I know that:				
	gas	In a solid the particles are arranged in a regular pattern. They vibrate around a fixed				
	Describe the difference between an element compound	position. They are strongly bonded together.				
	Describe the difference between an element, compound and mixture	In a liquid the particles are arranged in an irregular pattern. They are still touching, but				
		they are free to roll slowly past each other. They are weakly bonded.				
60%	Describe the arrangement, movement and bonding of	In a sea the particles are arranged and entry. They are far apart and are not bended				
	particles in a solid, liquid and gas	In a gas the particles are arranged randomly. They are far apart and are not bonded.				
	Describe 3 risks in a science lab and 3 things we can do to	 You are using a Bunsen burner to boil some water. You then 				
	prevent these from causing us harm	add some copper sulphate to it. The copper sulphate has				
		this symbol on it.				
	Link the properties of metals and non-metals to their use	Name a risk during this experiment and three ways you can prevent causing harm in the science lab.				
		The solution is corrosive				
		Three precautions:				
		1. Wear gloves				
		 Wear eye protection Wash skin immediately if a spill occurs 				
		 Here and menoderating in a spin occurate 				



30%-	Use mass and atomic numbers to calculate the number of electrons, protons, and neutrons in an atom infer from a drawing of an atom, which kind of element it is	 1)Define mass number and atomic number: Mass number= The sum of protons and neutrons in the nucleus of an atom 2) Calculate the following 3 things for each of the elements (Lithium, Nitrogen, and Potassium). Lithium: Number of electrons = 3 Number of protons = 4 Nitrogen: Number of neutrons = 7 Potassium: Number of neutrons = 7 Potassium: Number of electrons = 19 Number of neutrons = 20 3) Which element is this? Justify your answer. Helium- this is because it has 2 protons and 2 electrons and the atomic number of
		3) Which element is this? Justify your answer. Helium- this is because it has 2 protons and 2 electrons and the atomic number of helium is 2. In addition to this, the total number of protons and neutrons in the nucleus is 4 and the mass number of helium is 4.







	identify soluble and insoluble substance.	 Sophie stirs 2 teaspoons of coffee into a cup of boiling water. What is the solute, the solvent and the solution? Solute – Coffee, Solvent – Boiling water, Solution – Cup of coffee 			
	Explain how the pH scale can be used to determine if a liquid is an acid or a base.	 2) Define the following variables: Control: the variables you keep to same Dependent: the variable you measure Independent: the variable you change 3) You test the pH of three liquids, state whether they are an acid, a base, or a neutral liquid. 			
50%	Explain how litmus paper can be used to test for acids and bases.	a) pH=2 acid b) pH=8 base (alkali) c) pH=7 neutral d) pH=10 base (alkali)			
	Describe how neutralisation is achieved	 When blue litmus paper is added to an acid it turns red. When red litmus paper is added to an alkali it turns blue. Mr Harris is trying to neutralise an acid. Write him a note describing how he could do it and what he might have to use. Add universal indicator to your acid. 2) using a pipette slowly drop an alkali into your acid 3) stop when the 			
	Decide which separation method is the best to use in different scenarios.	6) Write the preferred separation method next to the substance. Distillation Two liquids with different boiling points			
	l can define control, dependent and Independent variables.	Filtration An insoluble solid from a liquid Evaporation A soluble solid from a liquid Chromatography Two_or more liquids with different colours			



70%	Write a word equation for neutralisation Explain how a condensing tube makes distillation more effective Describe the effect of heat on solubility	Increasing the energy that each particle has, causing the particles in the solution to move faster and spread out quicker.				
60%	Name factors that affect the rate of solubility Name acids and alkalls from their formulae Write a method for neutralisation. Explain how filtration, evaporation and distillation work using the correct key terms	 1) Name two ways to increase the rate of dissolving. Silt more or add more hear (Increase the temperature) 2) Give the names for the following acids and bases from their formulae a. HCI Hydrochloric Acid bH₂SO₄ Sulphunic Acid c. NaOH Sodium Hydroxide 3) I want to investigate how temperature affects the rate of salt dissolving. Identify the control, dependent and independent variable. Independent change the temperature, Dependant rate of dissolving Control Volume of solvent and mass of solute 4) Mr Tueggag has got stomach acid and it is causing him a lot of pain. Explain to him what the could do to make thimself feel better making reference to acids and alkalis. He could take an antiacid tablet, these contain an alkali which would neutralise his stomach acid and stop the gain. 6) Label these diagrams with the equipment needed and explain how each separation technique works using the following key terms. Solvie, residue, fitrate, solvent, solution, mosture, evaporation, condensation, fitration, insoluble, soluble 				



		 Define concentration and explain why it is important to know the concentration of an acid when trying t an alkali. Concentration is the number of particles of a solute dissolved in a solvent, the more concentrated the s more acid particles that are <u>present</u>. 	
	Link neutralisation to concentration of	2) Write a method for how we could get pure salt left over from a mixture of mud and sea water. Mud is insoluble and salt is soluble. To separate the insoluble <u>mud</u> you would first filter the muddy salt you have done this you need to evaporate the water to leave you with the soluble salt	y water. Once
	contributing acids and alkalis.	 Decide who committed the murder based on the chromatograph. Justify answer. 	your
80%+ 8	Use knowledge of solubility to separate sait	John committed the murder because the rf values of the three solutes in match the rf values of the solutes in the murderers <u>ink</u>	his ink
	from muddy sea water	 Write a symbol equation for the neutralisation of hydrochloric acid and sodium hydroxide. 	
	Analyse the colours in an unknown sample from a chromatograph.	HCI+NaOH → NaCI+H ₂ O	
	Write a symbol equation for neutralisation.		
		John's ink Anna's ink Munderers in	

Year 7: Spanish - Autumn 1

C	Academy: Academy Enfield Spanish						
	Accentiela Spanish						
1	¿Puedo?	Can I?	16	ser voluntario/a	be volunteer		
2	se debe / hay que	you must	17	elegir	choose		
3	levantar la mano	raise your hand	18	recoger los cuadernos	to collect the books		
4	distribuir los diccionarios	hand out the dictionaries	19	¿Cómo estás?	how are you?		
5	quitar la chaqueta	take off your jacket	20	fabuloso	fabulous		
6	Responder	reply	21	bien	good		
7	escribir	write	22	es lunes	it's Monday		
8	marcar los puntos	do the points	23	estoy contento	l'm happy		
9	prestar un bolígrafo	borrow a pen	24	fatal	awful		
10	abrir la ventana	open the window	25	fenomenal	great		
11	hablar en español	speak in Spanish	26	me encanta el español	I love Spanish		
12	escuchar	listen	27	una mesa	a table		
13	no se debe / no hay que	you mustn't	28	un chico	a boy		
14	gritar	scream	29	un profesor	a teacher		
15	hablar en inglés	speak in English	30	una pizarra	a screen		



Year 7: Spanish - Autumn 1

	Spanish							
31	una profesora	a teacher (f)	46	odio	I hate			
32	una chica	a girl	14	porque	because			
33	manos	hands	48	bastante	quite			
34	guay	fun	49	un poco	a bit			
35	inteligente	clever	50	muy	very			
36	divertido	funny						
37	tímido	shy						
38	hablador/a	chatty						
39	simpático/a	nice						
40	deportivo/a	sporty						
41	trabajado/a	hard-working						
42	compañeros	friends						
43	me gusta	l like						
44	no me gusta	l don't like						
45	me encanta	l love						