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Tutor Set: _

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YEAR 7 HOMEWORK KNOWLEDGE ORGANISER Spring Term 1

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> Spring Term 1 Timetable

The timetable below shows you which subjects you will be studying each day, for 30 minutes each, it does not show you which section of the subject KO to learn. This information will be given to you by your subject teacher and you should write this into your **planner**. The planner is also where you will have your KO work signed off each week.

Week1: 6th January

	Subject1	Subject 2
Monday	English	Phil & Ethics
Tuesday	Science	Geography
Wednesday	Maths	Computer Sci
Thursday	Science	History
Friday	Spanish	DT

Week 2: 13th January

	Subject1	Subject 2
Monday	English	Drama
Tuesday	Science	Geography
Wednesday	Maths	Music
Thursday	Head of School	History
Friday	Spanish	Art

Week 3: 20th January

	Subject1	Subject 2
Monday	English	Phil & Ethics
Tuesday	Science	Geography
Wednesday	Maths	Computer Sci
Thursday	Science	History
Friday	Spanish	DT

Week 4: 27th January

	Subject1	Subject 2
Monday	English	Drama
Tuesday	Science	Geography
Wednesday	Maths	Music
Thursday	Head of School	History
Friday	Spanish	Art

Week 5: 3rd February

	Subject1	Subject 2
Monday	English	Phil & Ethics
Tuesday	Science	Geography
Wednesday	Maths	Computer Sci
Thursday	Science	History
Friday	Spanish	DT

Week 6: 10th February

_	Subject1	Subject 2
Monday	English	Drama
Tuesday	Science	Geography
Wednesday	Maths	Music
Thursday	Head of School	History
Friday	Spanish	Art

HEAD OF SCHOOL'S PAGE

General Knowledge

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A: Our World – tallest buildings in the world

Country	Name of Tower	Height (m)
Dubai	Burj Khalifa	828m
China	Shanghai Tower in Shanghai	632m
Saudi Arabia	Abraj Al Bait in Mecca	601m
China	Ping An International Financial Centre in Shenzhen	599m
China	Goldin Finance in Tianjin	597m
South Korea	Lotte World Tower in Seoul	555m
USA	One World Trade Centre in New York	541m
China	Chow Tai Fook Finance Centre in Guangzhou	530m
China	Tianjin Chow Tai Fook Binhai Centre in Tianjin	530m
China	China Zun Tower in Beijing	528m

B: Flags





Dubai China Saudi Arabia South Korea USA

w ar as ca cc cc cr de

D: The UK – Longest rivers

Name of River	Length (miles)
Severn	220
Thames	215
Trent	185
Great Ouse	143
Wye	134
Ure	74

E: Academic Vocabulary: words to help you learn

Vord	Definition
nalyse	Examine something in detail in order to interpret it
nnotate	Add notation or labelling to a graph, diagram or other drawing
ssess	Make an informed judgement
alculate	Work out the value of something
omment	Present an informed opinion
ompare	Identify similarities and/ or differences
onsider	Review and respond to given information
riticise	Form and express a judgement
lebate	Present different perspectives on an issue
leduce	Draw conclusions from information provided

C: UK Fatcs – seas around the UK



MATHS

Hegarty Maths Advice



Our weekly homework routines...

1 You will always be set at least one homework a week by your teacher.

- 2 Your teacher will choose the lesson they want you to learn and will pick it so that you are revising an important maths topic for revision. As such, you have already probably covered it in class but might have forgotten so your homework is to revise as, to be a great learner, you need to revise all the time (not just before tests!).
- 3 You need to spend **between 30 minutes and 1 hour** on your homework as this shows effort and commitment and will ensure that you do quality homework.
- You will always be expected to
 - i) watch the video + take notes;
 - ii) write down your quiz workings neatly;
 - iii) mark your own work, make corrections and write down your score at the end.
- 5 Homework will be checked by your teacher in class once a week during your starter. You will be expected to bring your homework book to class and leave it open on the desk for your teacher to inspect.



10 things <u>a student</u> should do when completing HegartyMaths homework

	Student checklist for good HegartyMaths homework	🗸 or 🗙
1	I always write the date, title, clip number and H/W for all my tasks.	
2	I always watch the video before attempting the questions.	
3	I always take full notes of all the examples modelled in the video.	
4	I copy every question that I attempt in my book.	
5	I show all my workings for every question in the quiz that I do.	
6	I try to model my work the way I was shown in the video by Mr Hegarty.	
7	I use a pencil and ruler for all diagrams.	
8	I mark my work correct/incorrect as I go.	
9	I write down corrections when HegartyMaths tells me the correct answer.	
10	I write down my score at the end of quiz .	

5 things you should do when you want to do extra work

	Action	🗸 or 🗙
1	I go back to my donut and pick lessons that are red (<70%) to redo them to make them amber (>70%) or green (100%).	
2	I go back to my donut and pick lessons that are amber (>70%) to redo them to make them green (100%).	
3	When working on lessons that are red or amber and I cannot make them 100% , I rewatch the video and look at the building blocks which may help me.	
4	I complete a Fix-Up-5 where HegartyMaths gives me 5 practice questions on parts of maths that I might be weak on.	
5	If my teacher has given me a revision list of clips on HegartyMaths, then I pick a topic on that list and complete a homework the normal way by myself.	

You will <u>always</u> produce a set of well-written notes of all the modelled examples in the video as we want you to be an expert note-taker and to revise before you try the quiz. If you know the material, you still have to take the notes as sometimes you have to revise topics you already know and it's good for your long-term maths memory. 5

ENGLISH

Stories of Survival (Paper 2)



A: WRITING SKILLS

YEAR 7 HOMEWORK

NOWLEDGE ORGANISER Spring Term 1

SPAG – Applying spelling, punctuation and grammar effectively. Capital letters, full stops, commas & apostrophes.

Challenge: colons, semi-colons, parenthesis, exclamation marks, hyphens.

Sentence structures – applying a variety for effect – simple, compound and complex. Using time and sequencing connectives.

Paragraphing.

Persuasion – Using a range of techniques effectively and suitably (AFOREST) .

B: Sample sentence openers

- Many people perceive this as a fractious issue.
- Picture the scene:
- Now, let's be clear, the real issue here is....
- Yes, I can see why some people may think
- The solution is simple:

C: Synonyms

Good: Outstanding, exceptional, remarkable Bad: Abhorrent, abysmal, appalling Boring: Tedious, lacklustre, monotonous Angry: Irritated, exasperated, vexed Pointless: Futile, inane, absurd

D: Vocabulary	Definition	
Convey	To communicate a message, information, idea.	
Colloquial	Language used in ordinary and familiar conversations. Not formal.	
Precise	Exact and accurate	
Concise	Giving a lot of information clearly and in a few words.	
Criticism	Disapproval	
Courteous	Polite and respectful	
Facilities	Places, amenities or things that are provided for a particular purpose	
Provision	Providing or supplying something.	
Reiterate	To say something a number of times.	
Elaborate	To develop or present something in further detail.	
Proposal	A plan or suggestion	
Insufficient	Not enough	
Inadequate	Not good enough	
Negligible	Small and unimportant.	
Recipient	Someone who receives something.	

E: Terminology	Definition		
Purpose	What a text trying to do. Is it informative, advisory or persuasive?		
Audience	Who a text is aimed at		
Format	The type of text (eg: letter, speech, report etc)		
Tone	The way a piece of text sounds e.g. sarcastic etc. The mood or atmosphere in the writing.		
Hyperbole	Use of exaggerated terms for emphasis.		
Anecdote	A short story using examples to support ideas.		
Directives	Using you, we or us.		
Repetition	When words or phrases are used more than once in texts.		
Statistics	Facts and figures		
Authoritative	Commanding and self- confident. Likely to be respected and obeyed.		
Superlative	Declaring something the best i.e. the ugliest, the most precious.		
Passive voice	When the subject of the sentence has an action done to it but something or someone else. E.g. the dog was being washed by the girl.		

ENGLISH Oliver Twist



A: Key Words

morality – a code of right and wrong. vulnerable – in a situation in which you could be easily harmed brutal – very violent or cruel. corrupt – a word used to describe a person who uses their power in a dishonest or illegal way in order to make life better for themselves. villain – a 'baddie' who harms other people or breaks the law to get what they want. malicious – meant to hurt or upset someone. victim – someone who has been harmed workhouse – a place where people who couldn't support themselves were sent to live and work

C: Characters

Oliver: a 'pale, thin' orphan who is treated badly by almost everyone he meets.

Mr. Bumble: runs the workhouse and gives Oliver his name. Fagin: an old man who runs the gang of pickpockets.

Jack Dawkins (The Artful Dodger): a young boy who

introduces Oliver to Fagin's gang

who has 'all the airs and manners of a man'.

Bill Sikes: a 'rough man' who has been a criminal for many years.

Nancy: Bill's girlfriend who risks her life to help Oliver escape from the gang.

Mr. Brownlow: a wealthy older gentleman who takes Oliver in and looks after him.

B: Context

- 1 Charles Dickens was born 7th February 1812 in Portsmouth.
- 2 His novels are set in Victorian times (1830-1900).
- 3 Dickens had to work in harsh conditions as a child when his father was sent to prison.
- 4 Dickens lived next to a work house until he was 19.

4 Victorian London was a busy city growing bigger all the time due to the Industrial Revolution. Big cities were a place where

crime developed and in the early 1800s the first police force was created.

6 Poor Victorian children lived in poverty. In London, many lived in unsanitary slums.

D: Plot summary

1. Oliver is born in the workhouse. When he is a bit older he is nominated to ask for more food because the boys are starving.

2 He is kicked out of the workhouse and sold to the Sowerberry family to be an undertaker's apprentice. He's bullied by Noah, they fight and he is locked up.

- 3 Oliver runs away to London, meets Dodger and is introduced to Fagin's gang.
- 4 Oliver is taken out with the gang and is horrified to see Dodger steal a gentleman's handkerchief. Oliver is wrongly arrested for the theft.
- 5 The gentleman, Mr. Brownlow, takes pity on Oliver and takes him in. The gang plot to get him back in case he reveals information about them.
- 6 Oliver is abducted by the gang whilst running an errand for Mr. Brownlow.

7 Oliver is used by Sikes in a burglary. They fail and Sikes runs away. Oliver is left behind but the people who live there feel sorry for him and look after him. They are called Fred and Rose Maylie.

8 When Bill and Fagin realise what has happened, they plot to catch Oliver again. Nancy overhears and visits Mr. Brownlow to warn him.

9 Fagin tells Bill about Nancy's betrayal and Bill murders her. Fagin is discovered and sent to prison and Bill dies trying to run away.

10 Oliver discovers who his parents were and joins Mr. Brownlow and the Maylies to live happily ever after



SCIENCE - PHYSICS

Electricity (Part 1)





SCIENCE - PHYSICS

Electricity (Part 2)





SCIENCE - PHYSICS

Forces (part 1)

A: WHAT IS A FORCE? Force is measured in Newtons – symbol: N



push or pull

Key Terms	Definitions
Newton	The unit of force
Newton meter	A piece of equipment that can be used to measure the size of the force
Contact Force	A force caused by the contact between two objects
Non Contact Force	A force between two bodies that are not in contact for example gravity
Free body force diagram	A diagram which shows all the forces acting on an object

When a force is applied to an object it can lead to a change in the objects

- Speed
- Direction of movement
- Shape (think about a rubber band)



C: INTERACTION PAIRS.

A force is always a part of a mutual action that involves another force.

Forces always occur in pairs.



When you push on the wall, the wall pushes on you.



The interaction that drives the nail is the same as the one that halts the hammer.







When a material fails to return to its original length it has reached its *elastic limit* or *limit* of proportionality.

After the elastic limit the loads produce much larger extensions of the specimen. This is called the plastic region.

At the end of this stage, the extension is even greater and a *yield point* is reached.



SCIENCE - PHYSICS

Forces (part 2)





SCIENCE - BIOLOGY

Adaptation and Competition (Part 1)



Activities that an organism does to help it survive are called behavioural adaptations. These include:

- searching for food
- during winter, hibernation
- the herding of animals in large groups
- vocalisations, such as bird calls

Behavioural adaptations can be learnt or inherited

Inherited behaviour is instinctive and genetic. Learnt behaviour must first be taught, or learned, from experience.

Some adaptations are physical, such as the shape of a birds beak or the size of plant leaves. These are called structural adaptations.

- Other structural adaptations include: fur thickness
- body shape
- teeth size and shape

 internal organisation, such as muscle structure. Adaptations relating to a feature, or a group of features, that allows an organism to perform a specific function are called functional adaptations.

For example, making slime, controlling body temperature and secreting poison.

Certain tropical frogs have poisonous skin that can make predators very ill or even die

Functional adaptations aid the survival of an individual. They are controlled by genes, so can be passed down from generation to generation.



greyish-brown fur turns white in winter for camouflage

large ears help in detecting predators



vision with a wide field of view to see predators approaching

large furry feet act as snow shoes and 3 protect the soles from cold



SCIENCE - BIOLOGY

Adaptation and Competition (Part 2)



D: SURFACE AREA TO VOLUME RATIO (SA:VOL.)



Surface Area to Volume Ratio



A large SA:Vol ratio is not always an advantage: Small, warm-blooded mammals lose heat very guickly due to their large SA:Vol ratio. They need to eat almost constantly! (Think about how hungry you get on a cold day)

Desert plants would lose water quickly with flat leaves - so they minimise their SA:Vol ratio so that they can conserve water in hot dry environments

E: PLANTS AND ADAPTATION

Plants need: light, carbon dioxide, water, oxygen, nutrients

Animals

adapted will survive

space/area

to succes.

Adaptation in plants

Water taken in through roots

Stoma in leaves allow gases in and out for photosynthesis



Epiphytes - in rainforests live high above ground and collect water and nutrients from the air

An extremophile is an organism that thrives in extreme conditions. Extremophile literally means 'extreme

moist air, reduces surface

area to collect dew

loving'

F: POPULATIONS AND COMMUNITIES Population vs. Community

- Species
- A group of organisms that are physically similar and can mate with each other
- Example: bear
- Population
- All members of one species in a particular area
- Example: a group of deer in a forest
- All different populations that live together in an area and are close enough to interact with each other
- Example: birds, bears, snakes, all living in the forest
- Flowers are dependant on bees for pollination
- Bees are dependant on flowers for food.
- We say they are interdependent.

Competition in animals and plants

Plants

- Light (photosynthesis) smaller Food - more likely to be successful if eat a wide range. Competition plants may flower earlier in the year between own species too, better before the bigger plants to get more light Territory - compete for best
 - Water (photosynthesis) different types of roots - spread along surface or deep underground
- Mate males fight or display Nutrients Success depends on adaptations ...
- Avoiding competition can also lead Space (roots and light) Spreading seeds -

sycamore, dandelion, Fruits, sticky

- Species a group of organisms capable of
 - interbreeding and producing fertile offspring.

What bees do for us



A stable community is one in which the size of the populations of all species remain relatively constant over time



A:

SCIENCE - CHEMISTRY

Periodicity (Part 1)

What is an element?

- A element is a pure substance made of one type of atom
- Elements are divided into metals and nonmetals
- Examples of non-metal elements include carbon, oxygen, hydrogen, and nitrogen
- Examples of metal elements include aluminum, iron, copper, and gold

What is a chemical symbol?

Carbon

12.0

Aluminum

27.0

- The chemical symbol tells us what atom it is 6 It's a short form (C = Carbon)C · sometimes it's the Latin short form (Au = Gold)
- Always a CAPITAL LETTER, sometimes followed by one or more lower case letters 13 (AI)
- · Ex: Oxygen O, Nitrogen N, Sodium Na • *Cobalt - Co *Carbon Monoxide - CO
- (Co is an element, CO is a compound)

The periodic table

There are approximately 100 naturally occurring elements. All the known elements are shown in the periodic table.





B: Properties of Non Metals

	Solids at room	High Density (feel heavy
Shiny (Lustrous)	temperature (except	for their size)
	Mercury which is liquid)	
	Malleable (the bend	
Strong	without breaking)	Good conductor of heat
Good conductor of	Are magnetic (only Iron,	They make a ringing sound
electricity	Nickel and Cobalt)	when hit (sonorous)
Dull appearance (not	At room temperature half	Low density (feel light for
shiny)	are solids, half are gases,	their size)
	one is a liquid (Bromine)	
Poor conductor of heat	Brittle (they break or	
(insulator)	shatter when hammered)	Weak
Poor conductor of		Make a dull sound when
electricity (insulator	Not magnetic	hit
(apart from graphite))		

Transition metals. The elements in the centre of the periodic table, between groups 2 and 3, are called the transition metals. Most of the commonly used metals are there, including iron, copper, silver and gold.

In pure metals, atoms of the same size are packed regularly in layers.

Metals are malleable and ductile because the layers of atoms can slide over each other easily when a force is applied.



Metals have high density because there is little empty space between the atoms.



Atoms are packed close together in a metal.

Why do metals have high melting and boiling points? Gold, for example, has a melting point of 1064°C and a boiling point of 2807 °C.



- Strong forces of attraction - Between positive ions and negative
- electrons Sea of delocalised electrons
- As metallic bonds are so strong a large amount of force is needed to break them

The delocalised electrons can move freely anywhere within the metal lattice allowing them to conduct electricity.



Drift of delocalised electrons from a - terminal to a + terminal



SCIENCE - CHEMISTRY

Periodicity (Part 2)



C: PROPERTIES OF NON-METALS

Properties of Nonmetals

- Dull
- Brittle (shatters)
- Do not react with acid or copper chloride
- Do not conduct electricity
- Low boiling point
- Low melting point
- Usually found as a gas

E: GROUP 7 ELEMENTS: THE HALOGENS

Symbol and Name	Atomic Number	tate and colour at room temperature and pressure, colour of vapour when heated				
F Fluorine	9	pale yellow gas				
CI Chlorine	17	pale green gas				
Br Bromine	35	dark red liquid, readily gives off a brown vapour				
I lodine	53	dark (~black) crumbly solid, purple vapour				
At Astatine	85	black solid, dark vapour - highly radioactive!				



D: GROUP 1 METALS (ALKALI METALS)

The characteristic properties of the alkali metals are:

- They are soft and can be cut by a knife.
 Softness increases going down the group.
- They have a low density.

Lithium, sodium and potassium float on water.

They have low melting and boiling points.

These properties mean that the alkali metals are different to typical metals. However, alkali metals do also share some properties with typical metals:

- They are good conductors of heat and electricity.
- They are shiny. This is only seen when alkali metals are freshly cut.

Metal	Reaction with water			
lithium	Bubbles of gas are given off quite quickly. When tested with universal indicator the water is now alkaline.			
sodium	The sodium melts and skims over the surface producing a stream of small bubbles. Sometimes a yellow-orange flame appeared.			
potassium	Potassium immediately produces a lilac flame as it skims around the surface making a fizzing noise.			

F: GROUP 0 ELEMENTS: THE NOBLE GASES

atter			(IIII)	WAITE
aa	••			
He	Ne	Ar	Kr	Xe

Physical Properties

- Colourless, odourless and tasteless.
- > Sparingly soluble in water.
- > Have very low melting and boiling points

	symbol
helium	He
neon	Ne
argon	Ar
krypton	Kr
xenon	Xe
radon	Rn

SPANISH

Stem-Changing Verbs



A Radical-changing verbs

These verbs change their spelling in the root or stem of the verb. Can you work out why this part of the verb is called the root or the stem?

u	-	1	1	e

 $o \rightarrow ue$

 $e \rightarrow ie$

poder preferir jugar querer I play I can I prefer puedo prefiero juego quiero You play You can You prefer prefieres puedes quieres juegas He/she plays He/she can He/she prefersquiere puede prefiere juega jugamos^{We play} podemos^{We can} preferimos We prefer gueremos We want jugáis You(pl) play podéis preferís You(pl) can You(pl) prefer queréis pueden They can juegan They play prefieren They prefer quieren Think about the pattern. Where do the changes not happen? Here is another irregular verb you

 \odot me gusta me encanta me apasiona me interesa me flipa me mola

 $\overline{\mathbf{S}}$ no me gusta me aburre me molesta me fastidia

2	-	:	-1	-	un	• •	-	
U	ru	IN	dI	п	un	1D	er	5

1st	primero/a	бth	sexto/a
2nd	segundo/a	7th	séptimo/a
3rd	tercero/a	8th	octavo/a
4th	cuarto/a	9th	noveno/a
5th	quinto/a	10th	décimo/a

		TIC		e is anoi	line	i me	gu	iai verb	you
		ne	e	d to lea	rn (off by	/he	eart.	
1		ir -	- 1	to go					
		vo	у	l go		vam	os	We go	
		va	s	You go		vais		You (pl) go	
		va		He/she goes		van		They go	
	V	/oya.			-	۰. I	Igo	o/am goir	ng to
	а	+ el =	=	al			Vo	y al instit	uto.
	а	+ la =	= ;	a la			Vo	y a la pis	cina.
		_ [k	(O Quizl	et l	ink			

https://quizlet.com/_5lisvs

Reflexive verbs

You will find these verbs in your dictionary with se attached to the end of the verb. Example: levantarse - to get up (to get oneself up)

These verbs have a reflexive pronoun which normally comes before the verb.

me levanto te levantas se levanta

I want

You want

He/she wants

You(pl) want

They wan

nos levantamos os levantáis se levantan

me despierto – I wake up me visto - I get dressed

despertarse vestirse	
me desp ie rto me v i sto	
e despiertas te vistes	
se desp ie rta se v i ste	
nos despertamos 👘 nos vestim	0
os despertáis os vestís	
se desp ie rtan se v i sten	

B Ser and estar

Both ser and estar have the same meaning: to be.

Ser is known as the permanent 'to be' and it is used for:

- Origin: Soy de Cuba, soy cubano.
- Expressions of time: Son las seis y cuarto. / Hoy es viernes.
- Occupation: Mi padre es profesor.
- Relationships: Luís y Juan son mis hermanos.
- Description: La casa es grande.
- What things are made of: El barco es de papel.

Estar is known as the temporary 'to be' and it is used for:

- Temporary states: Ana está enferma (ill).
- Moods: Estoy deprimido.
- Location/position: Londres está en Inglaterra. / El coche está en el garaje.

ser	estar estar	AR 😸
soy	estoy	l am
eres	estás	Are you?
es	está	He/she/it is
somos	estamos	We are
sois	estáis	Are you (pl)?
son	están	They are



HISTORY

Α

Trebuche attack

Disadvantages

Castles and The Black Death

What is a castle?

YEAR 7 HOMEWORK

NOWLEDGE ORGANISER

A castles is a large strong building, built in the past by a king or important baron to protect the people inside from attack. They were both a home and a fortress. They were built to provide safety and protection from attack and to display the owner's rank and wealth. Castles were often built on hilltops or surrounded by water to make them easier to defend.

Layout of a castle

- Many nobles lived in castles. The great hall was the centre of a castle and the walls were decorated with tapestries. There was a minstrel gallery for musicians and singers. At night, the servants slept on the floor.
- The great hall would have at least one fireplace with a chimney. This was a Norman invention and stopped the room filling with smoke.
- The toilet, called the 'garderobe', was usually a chute straight into the moat. One way to capture a castle was to climb up the chute, keeping your fingers crossed that the toilet wasn't occupied!



How did the Black Death (plague) arrive in England? The plague arrived at Melcombe Regis in Dorset in June 1348

and it spread throughout the south of England. In 1349 it reached Wales, Ireland and the north of England. By 1350, it had made it to Scotland. Estimates suggest as much as half the population died.

What did people believe caused the Black Death?

Medieval doctors were not certain what caused the plague, but believed it could be the result of:

the movements of the planets
a punishment from God
bad smells and corrupt air
enemies who had poisoned the wells
strangers to villages too were blamed



What did people believe cured the Black Death?

- •Rubbing onions, herbs or a chopped up snake (if available) on the boils or cutting up a pigeon and rubbing it over an infected body.
- •Drinking vinegar, eating crushed minerals, arsenic, mercury or even ten-year-old treacle!
- •People who believed God was punishing you for your sin, 'flagellants', went on processions whipping themselves.

•Sometimes a plague doctor would burst the buboes - and as a result, sometimes the victim lived!a

GEOGRAPHY

The People of Nottinghamshire



 <u>A – History of Nottingham</u> Over 1500 years ago, Nottingham was known as the "City of Caves" In Saxon times it was known as "<u>Snotingham</u>" Nottingham Castle was constructed in 1068 on a sandstone outcrop by the River Leen. During the <u>Industrial Revolution</u>, much of Nottingham's prosperity was founded on the textile industry. During the second half of the 20th century Nottingham saw urban growth with the development of <u>new public and private housing estates</u> and new urban centres 	 B – What is Nottinghamshire culturally famous for? Nottingham is a UNESCO world City of Literature because of Lord Byron and D. H. Lawrence amongst others Nottingham is known as the Home of English Sport due to Football, Cricket, Ice Hockey and Tennis. The city is home to two universities - Nottingham Trent University and the University of Nottingham The legend of Robin Hood Ye Olde Trip To Jerusalem, built into the cave system beneath Nottingham Castle, is a contender for the title of England's Oldest Pub, as it is supposed to have been established in 1189 	<image/>
 <u>C-What businesses does Nottingham have?</u> <u>Boots</u> the chemists started in Nottingham The birthplace of <u>Raleigh</u> bicycles <u>GM cricket bats</u> are created in Nottingham <u>Speedo</u> swimwear is designed and created here <u>Capital One</u> and <u>Experian</u> finance groups are also based here 	 <u>D-How is Nottingham sustainable?</u> Nottingham is sustainable by: <u>Bio-gas buses</u> are used on the majority of bus routes in Nottingham. These are less polluting than normal buses. Nottingham has over <u>650 miles of bicycle</u> lanes. This encourages people to ride their bikes instead of driving their cars. Nottingham has <u>recycling bins</u> which include glass and organic waste from gardens. The majority of Nottingham's black bin waste is burned in <u>the incinerator which powers some of the city</u> 	 <u>East Midlands Airport Links</u> <u>East Midlands Airport</u> is only 15 miles south west of Nottingham City Centre. <u>Nottingham Train Station</u> is a major transport hub for the rest of the country. Nottingham is one of only 6 cities in the UK to have a <u>Tram network</u>. <u>Nottingham City Transport (NCT) is the</u> biggest transport operator in Nottingham, with 330 buses

GEOGRAPHY

The Dectloce Earth

Spring Term 1	ss Earth	
 <u>A – Extreme Weather</u> <u>Definition of extreme weather -</u> Unusual, severe or unseasonal weather; weather compared to the historical norms Examples of <u>extreme weather:</u> heat waves, heavy rainfalls, droughts, snowstorms, tropical storms <u>Examples</u> of Extreme Weather events in the UK: the 2019 Heatwave or the Beast from the East 2018 	 B – Tropical Storm Formation Tropical Storms need a lot of heat to form and a sea surface temperature of at least <u>26°C,</u> which is why they usually occur over tropical seas. They also need to be between <u>5 and 20°</u> north or south of the Equator. Sea water must be at least <u>60 meters deep</u> The sea water is <u>evaporated and condenses</u> into clouds, these clouds gather together because of light winds and the spinning of the earth to form the giant storms 	<image/>
 Typhoon Haiyan happened On Friday morning, 8 November 2013, on the southeast coast of the Philippines with winds of up to 195 mph. <u>Effects:</u> The UN say Typhoon Haiyan has displaced nearly 600,000 people and damaged or destroyed 41,000 homes. 10,000 people may have died and 11 million people have been affected by the storm. The death tole is likely to rise. <u>Responses:</u> The UN and countries including the UK, Australia, Japan, Vietnam and the US have donated millions of pounds in aid and have sent supplies and medical teams 	 <u>D-Climate Change</u> <u>Definition of climate change</u>: the change in global or regional climate patterns compared to the historical norms Evidence for climate change: > The ten hottest years ever recorded all took place since 1998, with the hottest one of all being 2016. > During the last century, sea levels rose by about <u>7-8 inches</u> and now, the rate continues to accelerate. > The Sahara Desert is enlarging by a rate of <u>48 kilometres per year.</u> 	 <u>Definition of Climate Change</u> <u>Definition of Mitigation</u>: the action of reducing the severity and seriousness of something. <i>Ways to Mitigate Climate Change</i>: Increase the use of <u>public transport</u> – buses, trains and trams instead of cars <u>Afforestation</u> – planting trees to remove CO₂ from the atmosphere <u>International Agreements</u> – countries agreeing to cut down on pollution <u>Carbon Capture</u> – capturing CO₂ from the air and storing it underground.

PHILOSOPHY AND ETHICS

Inspirational Figures (Part 1)



A: Key terms

Key Term	Definition
Abraham	Important prophet and religious figure in Judaism, Christianity and Islam.
Angel	Heavenly being that delivers messages from God.
Covenant	A promise made between God and Abraham
Dilemma	When you are not sure of the right thing to do.
Gabriel	Important angel.
Inspirational person	To offer something valuable which motivates others to bring out the best in themselves.
Isaac	The much loved son of Abraham and Sarah. (Ishmael in the Islamic version)
Loyalty	A strong love and devotion.
Obedience	To do whatever you are ordered.
Sacrifice	When you have to give up something you care about.
Sarah	The wife of Abraham. (Hagar in the Islamic version)

B: The Test of Abraham

As Abraham did as God asked and moved his family to a new land- God fulfilled his promise to Abraham and gave his wife a son, even though she was 100 years old.

Isaac grew into a strong and healthy boy, and Abraham loved his son with all of his heart—and then some!

One day, God called out, "Abraham!"

"Here I am," said Abraham.

"Abraham, I want you to take your only son Isaac—the one you love so dearly—up to the mountains, and there offer him to Me," said God. "I will show you where to go." Abraham felt sad. He had waited so long for a son, and he didn't want to give him away. But Abraham obeyed. Early the next morning, he rose and took his only son—the one he loved so dearly—up into the mountains.

After three days, Abraham finally reached the place God had told him about. "Father," said Isaac, "we have fire and wood, but where is the lamb for our offering?" "God will provide," said Abraham, with tears in his eyes. And he began to carefully arrange the firewood on the altar. At last he bound Isaac and laid him on top.

Just as Abraham was about to kill his only son Isaac God spoke "Stop!" cried the voice from heaven. "Do not harm the boy. Now I know that you trust me completely."

Abraham saw a ram caught in a bush. He and Isaac offered the ram to

God. And Abraham named the mountain "God will provide." God promised from then on he would provide Abraham with as many descendants as there are stars in the sky and Abraham promised his family would stay faithful to God.



ART

The Colour Wheel and Mixing Colours



<u>Part A</u>



Primary colours cannot be mixed. Red, Yellow and Blue

How to mix secondary colours: Orange = Yellow and Red Purple = Red and Blue Green = Blue and Yellow



<u>A: History of Salsa</u>

<u>B: Salsa Bonita</u>

• Salsa originates from Cuba but started in New York.

MUSIC

Salsa

- Cuban immigrants brought their music to New York and it grew in popularity.
- Salsa features many percussion instruments and is all about making people move.
- Salsa normally features a vocalist and they would normally sing in Spanish.
- Salsa is a dance! The music needs to be fast and in a regular time in order for people to dance to it.
- The rhythm is normally syncopated.



C C E CD D	G G G
Can you hear me playing	the SAL-SA?
DD FD EE	G G G
Can you hear me playing	the SAL-SA?
EE GE FF	G G G
Can you hear me playing	the SAL-SA?
GG.F.E	.D EC
Play the Sal-sa	Bo – nita





DRAMA HOMEWORK

YEAR 7

KNOWLEDGE ORGANISER Spring Term 1

Naturalism and Characterisation



Monologue

Duologue

Soliloguy

Aside

FLASHBACK:

Scenes that go back in time

Create a non-linear plot

without causing the audience

too much confusion.

Stage Directions:

Instructions written in a script to

explain how a play should be

performed.

A: NATURALISM, CHARACTERISATION AND BACKSTORY

Naturalism **CONSTANTIN STANISLAVSKI**

- A style of theatre that aims to recreate real life on stage. Can also be known as realism.
- Every aspect of the performance has to • be *believable* including set, costume, sound and lighting.
- To maintain the illusion, the performers cannot break the *fourth wall* or interact with the audience. They must stay in character at all times.

B. REHEARSAL TECHNIQUES FOR CHARCATERISATION



Constantin Stanislavski felt that actors should understand their character's backstory, as it gives them motivation and makes for a more convincing performance. (Naturalism)

Dialogue:

This is the term given

to lines that are

spoken between

characters.

How to create a backstory:

- Decide what age your character is 1.
- Decide where your play is set, as the social and historical context of the play will 2. determine how your character behaves.
- Are there any significant events that have happened in your character's past? 3.



Key steps to character creation:

- Backstory
- Social/historical Context this affects how the character will behave and react to situations.
- Role on the wall what you think of yourself as the character and what others think of the character.
- Hot seating audience can ask the character questions to get more information from them about their history etc.
- Conscience Alley –One participant walks between 2 lines of students as they make comments that are either positive and encouraging or negative and discouraging.
- Status games: it's important for a performer to understand their relationships with other characters. Arranging the cast into a tableau, using levels and space to indicate high and low status characters and their relationships with each other. Can also show how different characters might treat each other.
- Defend a character: this involves being a character's lawyer and defending them against some of the things they have done – justifying the character's actions.



COMPUTER SCIENCE

How a Computer Works

A: Definition of a computer

A computer is a type of machine. It doesn't have a brain like us and it can't think or have ideas, but it can follow stored instructions and do lots of useful things. It is also known as a an electronic device for storing and processing data, typically in binary form, according to instructions given to it in a variable program.

B: Different types of computers

- Laptop
- Desktop PC
- Smartphone
- Tablet



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C: Different components of a Desktop PC



D: Software

Hardware - Computer hardware refers to the physical parts of a computer and related devices. Internal hardware devices include motherboards, hard drives, and RAM. External hardware devices include monitors, keyboards, mice, printers, and scanners

Software Computer software is a general term that describes computer programs. Related terms such as software programs and applications

Examples of Software







PowerPoint Publisher Photo Shop Dream Weaver

Definitions of the hardware

RAM - Random-access memory is a form of computer data storage which stores frequently used program instructions. It is categorized as temporary storage

ROM - computer memory that is used to permanently store applications and data. It has the Boot Up system stored.

CPU -A central processing unit is the electronic circuitry within a computer that carries out the instructions of a computer. It is also known as the "brain of the computer"

Hard Drive -The hard disk drive is the main, and usually largest, data storage hardware device in a computer. The operating system, software titles, and most other files are stored in the hard disk drive. It is known as permanent storage





F: Input and Output Devices



Warm Ups

PE





A: Players and Positions

PLAYERS: A netball team consists of up to 12 players with 7 players allowed on court at any one time. A team may take the court with a minimum of 5 players.

PE

Netball

Netball Court showing starting positions for a centre pass



Positions, Responsibilities and Areas Permitted

Position	Responsibilities	Court Area
GS	To score goals and to work in and around the circle with the GA	1 & 2
GA	To feed and work with GS and to score goals	1,2&3
WA	To feed the circle players giving them shooting opportunities	2&3
С	To take the Centre Pass and to link the defence and the attack	2, 3 & 4
WD	To look for interceptions and to prevent the WA from feeding the circle	3 & 4
GD	To win the ball and reduce the effectiveness of the GA	3, 4 & 5
GK	To work with the GD and to prevent the GS from scoring goals	4 & 5

B: Rules

PLAYING TIME: A game consists of 4 x 15 minute quarters

CENTRE PASS: Alternate for each team. The Centre must be wholly within the Centre Circle and must obey the footwork rule after the whistle has been blown. The Centre pass must be caught or touched by a player standing in or landing wholly within the Centre third.

MINOR INFRINGEMENTS- FREE PASS

Breaking the following rules will result in a FREE PASS (can be marked by the offender) being awarded to the opposing team.

OFFSIDE: Player moving out of permitted area, with or without ball (on a line counts as within either area). **BREAKING AT THE CENTRE PASS:** A player moving into the Centre third before the whistle is blown for the Centre pass.

PLAYING THE BALL: 3 seconds to pass or shoot, after catching otherwise it is a HELD BALL. A player may bounce or bat the ball once (with one hand) to gain control. A player on the ground must stand up before playing ball

OVER A THIRD: Ball may not be thrown over a complete third without being touched or caught by a player wholly within that third.

FOOTWORK: Passing or shooting the ball, whilst moving/hopping/dragging your landing foot.

MAJOR INFRINGEMENTS- PENALTY PASS

Breaking the following rules will result in a PENALTY PASS or PENALTY PASS OR SHOT (can't be marked by the offender) being awarded to the opposing team.

A PENALTY PASS (or PENALTY PASS/ PENALTY SHOT if in the goal circle) is awarded where the infringement occurred. The offending player must stand beside the thrower until the pass or shot has been taken.

OBSTRUCTION: Player with the ball: Standing closer than 0.9m / 3ft

Player without ball: the defender may be close, but not touching, providing that no effort is made to intercept/defend the ball and there is no interference with the opponents throwing or shooting action. Arms must be in a natural position, not outstretched, and no other part of the body or legs may be used to hamper an opponent.

CONTACT: No player may contact an opponent, either accidentally or deliberately, in such a way that interferes with the play of that opponent or causes contact to occur.

OUT OF COURT - THROW IN: Taken for a ball which leaves the court. Must be set from where it went out (in-line with Umpire).

TOSS-UP: For all simultaneous infringements. The two players stand facing each other with hands by their sides. Umpire flicks the ball upwards the height of the tallest person's shoulder.

DT – Miss Cockayne

M

A: Key words

<u>The bridge hold</u>- Shaping your hand like a bridge for safe chopping

<u>The claw grip-</u> Shaping your hand like a claw for safe cutting <u>Aesthetics-</u> making your final product attractive <u>Portion size-</u> A recommended serving size for your age <u>Mis en place-</u> Preparation time at the start on a practical <u>The Eatwell Guide-</u> A healthy eating guide for a balanced diet

Food



C: At the start of every practical lesson:



D: Bridge and claw method for safe cutting



Make a bridge over the vegetable with your hand

Make a claw with your hand by partly curling your fingers together



E: How much sugar is in your food?

Children aged 11 and over should be having no more that **7tsp** of sugar per day.



G: 8 government guidelines for a healthy diet

- 1. Base your meals on starchy foods.
- 2. Eat lots of fruit and vegetables.
- 3. Eat more fish- including a portion of oily fish each week.
- 4. Cut down on saturated fat and sugar.
- 5. Eat less salt- no more than 6g a day for adults.
- 6. Get active and be a healthy weight.
- 7. Don't get thirsty- drink plenty of water.
- 8. Don't skip breakfast.



easily, durable, brittle in

machines and polishes

small sections, good

electrical insulator,

well

DT – Miss Radford

Resistant Materials



Section A - Ke	ey tools ar	d equipment	Section C – Plastic sources	Section D – Product analysis
Image	Tool Name	Uses	Natural sources of plastics include:	ACCESSFM
	Vice	To hold material securely in place	•plants •trees •animals •insects	A Aesthetics What does it look like? e.g. colour, shape, style Is the product appealing to the client?
	Wet and Dry	To polish the material	Synthetic Synthetic plastics are chemically manufactured from:	C Cost How much does the product cost to buy? Is this a suitable price?
	Paper File	To remove	• crude oil • coal • natural gas	C Client Who is the product aimed at? How is it suitable for the client?
		material and scratches	Thermoplastics and thermoset plastics Plastics are divided into thermoplastics and thermoset plastics.	E Environment How has the product been made sustainable?
	Coping Saw	To cut curves	Thermoplastics can be heated and shaped many times. Thermoset plastics can only be heated and shaped once.	S Safety Is the product safety to use during intended use? How has the product been made safe?
ction B – Mate	erial prope	rties and uses	Section D – Process of making plastic	S Size What size is the product (mm)? Is this a suitable size for the product?
i <u>me</u> : Polymethyl Properties	methacrylc	ite (Acrylic) Uses	 Oil tanker Crude oil refinery and distillation Distribution 	F E Example 1 Function What does the product do? Does it do the job well?
ff, hard but scratch	nes Signs	s, covers of	5. Processing plant	

Plastic granules -

Factory 🥆

storage boxes, aircraft

windows, covers for

car lights, wash basins

canopies and

and baths

End product

28

What is the product made from? Is

this a suitable material for the

Materials

product? Why?

Μ

Notes/Reminders:			

Notes/Reminders:			

Notes/Reminders:

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