

"By failing to prepare you are preparing to fail"

Benjamin Franklin

YEAR 7 HOMEWORK KNOWLEDGE ORGANISER Autumn Term 2

Name:

Tutor Set: _

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YEAR 7 HOMEWORK KNOWLEDGE ORGANISER Autumn Term 2

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> Autumn Term 2 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: 4th November

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

Week 2: 11th November

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

Week 3: 18th November

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

Week 4: 25th November

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

Week 5: 2nd December

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

Week 6: 9th December

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

You have an art project this half term, you must ensure you are working on this throughout the half term in order to complete it ready for the deadline – your art teacher will give you more information.

HEAD OF SCHOOL'S PAGE

General Knowledge



A: Our World – facts about the continents

Asia	includes 50 countries, and it is the most populated continent, 60% of the total population of the Earth live here
Africa	comprises 54 countries. It is the hottest continent and home of the world's largest desert, the Sahara, occupying the 25% of the total area of Africa
North	includes 23 countries led by the USA as the largest economy in the
America	world
South	comprises 12 countries. Here is located the largest forest, the
America	Amazon rainforest, which covers 30% of the South America total area
Antarctica	is the coldest continent in the world, completely covered with ice. There are no permanent inhabitants, except of scientists maintaining research stations in Antarctica
Europe	comprises 51 countries. It is the most developed economically continent with the European Union as the biggest economic and political union in the world
Australia/ Oceania	includes 14 countries. It is the least populated continent after Antarctica, only 0.3% of the total Earth population live here
Oceania	Antaletica, only 0.5% of the total Earth population incentere

B: Local facts – Counties in the East Midlands



C: The UK – Highest peaks

	inglice peak		
Country	Peak	Height (m)	۷ ة
England	Scafell Pike	978	
Northern Ireland	Slieve Donard	850	e
Scotland	Ben Nevis	1345	i
Wales	Snowden	1085	i
			J

D: Academic Vocabulary: words to help you learn Definition Nord a way of dealing with a situation or problem. approach deduction the action of deducting or subtracting something. having power and influence over others. dominant special importance, value, or prominence given to something. emphasis having existed or done something for a long time and therefore recognized and established generally accepted. an organization having a particular purpose, especially one that is involved with science, nstitute education, or a specific profession. nteraction reciprocal action or influence ndicate point out; show. ustification the action of showing something to be right or reasonable. closely connected or appropriate to what is being done or considered. relevant

Hegarty Maths Advice



Our weekly homework routines...

MATHS

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

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Novel: My Sister Lives on the Mantelpiece

A: Key Terms (Learn the spellings and definitions)

Antagonist: the main character in a work of fiction who comes into conflict with the protagonist (hero or heroine). Note that the antagonist does not always have to be a character; it could be a thing or a situation (a monster, a storm, a flood, etc.).

Climax: the moment of greatest intensity in a work of fiction; the most exciting and important part of a story, usually occurring at or near the end. The climax is the turning point in the action.

Conflict: a struggle, disagreement, or difference between opposing forces in a literary work, usually resolved by the end of the work.

Exposition: this also refers to the first stage of a plot, in which necessary background information is provided.

Foreshadowing: to give a suggestion of something that will happen in the story.

Imagery: the images collected and used in a written work to add to the ambiance; language used by a writer that causes readers to imagine pictures in their minds, which gives them a mental image of the people, places, and things in a story. **Protagonist:** the principal or main character in a literary work.

Rising Action: the set of conflicts in a story that lead up to the climax.

B: Context

- London bombings of 2005, also called 7 July attacks or 7/7 attacks,
- They were coordinated suicide bomb attacks on the London transit system on the morning of July 7, 2005.
- At 8:50 AM explosions tore through three trains on the London Underground, killing 39.
- An hour later 13 people were killed when a bomb detonated on the upper deck of a bus in Tavistock Square.

• More than 700 people were injured in the four attacks.

C: Spellings

- 1. Friendship
- Alcoholic
 Abandoned
- 4. Separation
- 5. Stereotype
- 6. Racism
- 7. Isolation
- 8. Grieving
- 9. Relationship
- 10. Presentation



D: Key Quotes

- 1. "My sister Rose lives on the mantelpiece. Well, some of her does. A collarbone, two ribs, a bit of skull, and a little toe."
- 2. "Sometimes when I wake up, I forget that she's gone and then I remember and my heart drops like it does when you miss a step or trip over a kerb."
- 3. "In fact she was quite bad and according to Jas she was naughty at school, but no one seems to remember that now she is all dead and perfect."
- 4. "I swallowed all the doubt and all the disappointment and all the anger and they were almost too big, like vitamin pills that are difficult to get down even with water."
- 5. "If envy is red and doubt is black then happiness is brown. I looked from the little brown stone to the tiny brown freckle to her huge brown eyes."

E: Summary of Characters and Plot

- Ten-year-old Jamie Mathews
- His sister, Jas, who is 15
- His father, an alcoholic
- They move to the country from London after Jamie's mother has an affair and leaves.
- Sitting on the Mantelpiece in their new home is the ashes of Rose, Jas's twin sister, who was killed on September 9 in the London Bombings, five years earlier.
- Jas has been deeply troubled by the death of her sister, yet it doesn't bother Jamie since he was too young to really know Rose.
- At his new school, Jamie befriends Sunya, who is a Muslim.
- Jamie knows his father wouldn't approve of their friendship, as he hates Muslims and blames Rose's death on the entire Muslim population.
- This novel is narrated by Jamie and expresses his deep feelings.

ENGLISH

Writing: Narrative and Descriptive



A: Sentence starts

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(make sure you finish the sentence) Verb – Running quickly, she Adverb – Darkly, the night sky.... Adjective – Red light filled the ... Preposition – Down there, all... Connective – However, his life...

<u>B: Language</u> <u>devices/Spellings</u>

Simile Metaphor Personification Onomatopoeia Alliteration Imagery Symbolism Oxymoron Juxtaposition Pathetic Fallacy

C: The basics

Capital letters Full stops Question marks Commas Apostrophes Consistent tense Paragraphs Homophone Spellings Connectives Semi-colons Colons Vary sentence starts/lengths Vary paragraph lengths **Topic sentences**

E: Stretch yourself

Learn these ways to help make your writing impressive and interesting to the reader.

- Impressive vocab
- Break the rules!!!
- Reveal slowly/quickly
- Dialogue
- Parenthesis (brackets)
- Cohesion (topic sentence, pronouns, prepositions)
- Cyclical/non-linear structure

D: Effective opening lines

"All children, except one, grow up." J.M. Barrie: Peter Pan (1911)

"It was the day my grandmother exploded." **Iain Banks: The Crow Road (1992)**

"Mother died today. Or maybe, yesterday; I can't be sure." **Albert Camus: The Stranger (1946)**

"All this happened, more or less." Kurt Vonnegut: Slaughterhouse Five (1969)

"It was a bright cold day in April, and the clocks were striking thirteen." George Orwell: Nineteen Eighty-Four (1949)

"All happy families are alike; each unhappy family is unhappy in its own way." **Leo Tolstoy: Anna Karenina** (1878)

"It is a truth universally acknowledged, that a single man in possession of a good fortune, must be in want of a wife." Jane Austen: Pride and Prejudice (1813)

F: THE FIVE SENSES

Sight

Focus on just a handful of details (and allow readers to paint the rest of the picture for themselves).

Make those details the best ones you can find.

Smell

The smell of a woodland in summer after rain. Sour milk in the refrigerator. The first smell of the sea through a car window.

Sound

One solution is an onomatopoeia... Jangle Clatter Crash Similes work well, too – "the cry of the fox sounded like a child in terrible pain."

Taste

When a character arrives at the coast, the usual thing would be to have them *smell* the sea. Instead, have them *taste* the salt on the breeze. When a young boy captures a frog at the bottom of the garden, have him lick it... then recoil. When a woman returns to her childhood home, have her taste her mother's roast chicken when she's still 100 miles away.

Touch

A greasy stove. Cracked lips. A cold handshake.

SCIENCE - Chemistry

Reactions





In a **physical change** no new product is made. An example of this is a change of state.



Change in COLOUR

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light energy

flash/light

produced



(effervescence) Chemica



A change in

A solid is produced from 2 liquids (Precipitation)

> In a **chemical change** the atoms are rearranged and a new product is formed.

C: Endothermic and exothermic reactions

Reaction

energy is

nroduced

An exothermic reaction gives out energy to the surroundings so the temperature of the surroundings increases. Examples of exothermic reactions are combustion, oxidation and neutralisation.

Exothermic Vs. Endothermic



An endothermic reaction is when heat energy is taken from the surroundings so the temperature of the surroundings decreases. An example of an endothermic reaction is thermal decomposition.

B: Word equations and balanced symbol equations

A word equation is a way of using the names of substances to show what is happening in a chemical reaction.

The reactants are the substances required for a chemical reaction and the products are what are formed in the reaction.



In a chemical reaction we also use state symbols to tell us if the chemicals are a solid (s), liquid (l), gas (g) or aqueous (aq). Aqueous means dissolved in water. Sometimes we use a balanced symbol equation that shows us how many of atom there are on both sides of the reaction. If it is balanced there will be the same number on both sides of the equation.

The big numbers before the chemical show us how many molecules there are and the small numbers tell us how many atoms there are.



D: Combustion

Combustion means burning in oxygen. For something to burn you need fuel, oxygen and heat.



Complete combustion (when there is enough oxygen) Fuel + oxygen \rightarrow Carbon dioxide + water. **Incomplete combustion** (when there is not enough oxygen)

Fuel + oxygen \rightarrow Carbon monoxide + water + carbon (soot).

To test for carbon dioxide we use limewater. If the limewater turns cloudy then it shows carbon dioxide is present.



E: Conservation of mass

Conservation of mass means that in a chemical reaction atoms are not created or destroyed, they are just rearranged.

Sometimes it can seem as though this doesn't happen because one of the chemicals is a gas and gases can enter and leave a reaction.

Eg Carbon (s) + oxygen (g) \rightarrow Carbon dioxide (g) In Magnesium (s) + oxygen (g) \rightarrow Magnesium oxide (s)

A gas is being added to the magnesium so it *appears* to have got heavier.



F: Oxidation and thermal decomposition

Oxidation is when a chemical gains oxygen during a chemical reaction. An example of oxidation is a combustion reaction.

Thermal decomposition is when a substance is broken down using heat.

Metal carbonate \rightarrow Metal oxide + carbon dioxide

SCIENCE – Biology

Reproduction



A:

What is a Gamete?

Reproductive cell; Sex cell

Males have sperm and females have eggs



human ovum (egg)

human sperm

not to scale



Female Reproductive System



Parts	Function
Testes	Produce sperms
	Produce male hormones, such as testosterone
Scrotum	Support and protect the testes.
	It's at slightly lower temperature for normal development of sperm
Seminal vesicle	Store sperms temporarily
Sperm ducts	Transport sperms to the urethra in preparation for ejaculation
Prostate gland	Contains fluid which is rich in nutrients and enzymes to nourish the sperms and activate them
Urethra	Carries semen and urine to outside of the body
Penis	Enter the vagina of a woman during sexual intercourse to deposit semen

Parts	Function
Ovaries	Produces eggs Produces female sex hormones such as oestrogen and progesterone.
Oviducts/ fallopian tube	where egg is fertilised
Uterus	where the fetus or unborn baby develops during pregnancy
Cervix	enlarges to allow passage of the fetus during birth
Vagina	Where semen is deposited during sexual intercourse

C: WHERE DOES THE BABY DEVELOP?

In order for the embryo to survive and grow it needs nutrition and for waste products to be removed.

The PLACENTA is the link between the baby and the mother. The two blood supplies run very close to each other to allow waste products and useful substances to pass between the baby mother. The baby is linked to the PLACENTA by the UMBILICAL CORD

Gestation period: the time during which development occurs

Amniotic fluid is the clear, yellowish fluid that surrounds and protects the fetus in the uterus



B: WHAT IS FERTILISATION?

Fertilisation normally happens in the oviduct. The fertilised egg then passes along the oviduct

into the uterus and

soft lining.

IMPLANTS into the thick.

oestrogen breasts grow, body bair grow

D: PUBERTY HORMONES



Fertilization is the fusing of an egg and a sperm cell. In this process the sperm's nucleus will join with the egg's nucleus.

Fertilization The sperm meet the egg in the oviduct and one penetrates. This sperm's nucleus fuses with the egg's nucleus. The fertilized egg is called a zygote. An embryo is a fertilised egg cell that has divided to form a ball of cells. An embryo if the earliest stage of development of a human baby.

After the first eight weeks of pregnancy, a human embryo is then called a foetus.

At this stage, the foetus has all the main human features.

E: SEXUAL AND ASEXUAL REPRODUCTION

There are two main ways by which organisms can reproduce: **sexual reproduction** and **asexual reproduction**.

In sexual reproduction, male and female **sex cells** fuse together to combine their genetic material and form a new living organism.



Asexual reproduction involves a **single parent** producing offspring with exactly the same genes as itself.

Organisms that reproduce asexually include:

- many plants, such as spider plants, strawberri and potatoes
- microorganisms, such as bacteria and fungi, including yeast
- some insects, such as aphids.

In **flowering plants**, female gametes are called **egg cells** and male gametes are called **pollen cells**.



site of

pollen cells

site of

egg cells

new strawberry plant produced asexually by its parent plant

An important part of puberty for girls is the beginning of

their monthly cycle. This is known as the menstrual cycle.



F: THE MENSTRUAL CYCLE

The menstrual cycle involves the preparation of the uterus lining so that it can receive a fertilized egg.

If an egg is fertilized, it can implant itself in the prepared uterus lining.

If the egg is not fertilized, the lining of the uterus breaks down and is lost from the body. This is called **menstruation**, or a period.

In the female, one of the ovaries produces an egg every 28 days. This is called **ovulation**.

During sexual intercourse millions of sperm are **ejaculated** into the vagina.

If a sperm meets the egg, the sperm's nucleus can join with the egg's nucleus.

This fusing of the nuclei is called fertilization.



venstrual cycle of 28 days

STAGE 3: An egg is released on day 14. These are the most fertile days

Menstrual cycle....its complicated!

- The menstrual cycle is the reproductive cycle in women, which starts with a period (menstruation), if the woman is not pregnant.
- There are four hormones involved: follicle stimulating hormone, luteinising hormone, oestrogen & progesterone.
- FSH (released by the pituitary gland) causes eggs to mature in the ovaries.
- FSH stimulates ovaries to produce oestrogen.
- Oestrogen inhibits further release of FSH and stimulates release of LH.
- LH (released by the pituitary gland) stimulates the release of an egg (ovulation) from an ovary.

- LH stimulates secretion of progesterone by the empty follicle.
- Progesterone inhibits the release of LH and FSH.
- Oestrogen and progesterone maintain the lining of the uterus.



11



Nex Cuticle

Guard Cell with Chloroplasts

are made.

Epidermis

Ovary: contains ovules that develop into seeds

absorbed and simple sugars • Closed stomata prevent water loss in plant

12

E: POLLINATION AND FERTILISATION



- Plants have adaptations to help them in pollination.
- Flowers that are pollinated by animals are usually large and colourful.
- They also have nectar and a fragrance so that the animals are attracted to them.

Fertilisation

- When a pollen grain lands on the surface of a stigma, it produces a tube.
 The inside of the tip of the tube contains the male cells of the flower.
- These tubes grow down the style to reach the ovules in the ovary.
- Inside each ovule is an egg cell.





There are **three** different ways pollination can occur: through **insect/ animal** transfer, through **wind** transfer and through **human** transfer.

F: WHAT DO PLANTS NEED TO GROW

What do Plants need to Grow?

A plant is a living thing. Plants need light, air and water to grow.

Plants need <u>plenty</u> of <u>sunlight</u>. Plants use sunlight to make their own food. They trap light from the sun using their leaves.

Plants also need plenty of water. Their roots absorb water from the soil after it rains.

Plants need air. They take in <u>carbon</u> dioxide from the air and release oxygen back into the environment.

Plants also use <u>nutrients</u> in the soil. They <u>absorb</u> the nutrients using their roots.



Plants need carbon dioxide and water for photosynthesis but they also need small amounts of **mineral salts** for healthy growth.



Where do plants get mineral salts from?

Mineral salts are dissolved in water in the soil and so plants absorb these nutrients in the water they take in from the soil.

The three main elements in mineral salts are:

- nitrogen (N) needed for healthy leaves;
- phosphorus (P) needed for healthy roots;
- potassium (K) needed for healthy flowers and fruit.



Plant cells in the upper surface of leaves have chloroplasts which contain the green pigment called **chlorophyll**.

It is chlorophyll, which absorbs light energy from the Sun, that enables plants to carry out photosynthesis.

YEAR 7 HOMEWORK KNOWLEDGE ORGANISER Autumn Term 2 KNOWLEDGE ORGANISER

A: ELECTRIC CIRCUITS

- Electricity is a form of energy
- **Circuit diagrams**: simplified circuit drawings using symbols.
- Electrical component: something used in a circuit and has a specific use



- Batteries provide the driving force
- If you add more batteries, the current will increase.

B: CURRENT

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- Current: the flow of negative charge (electrons)
- Current is not used up
- Ammeter: measures current (in amps, A).
- Ammeters are connected in series (in the loop)

C: POTENTIAL DIFFERENCE

- Potential Difference: The amount of energy lost or gained by one unit of charge
- Potential difference is also known as voltage and is measured in **volts** (V) with a **voltmeter**.



You connect a voltmeter either side of the component.



SERIES CIRCUIT

PARALLEL CIRCUIT

measuring voltage





D: RESISTANCE

- **Resistance** is anything that slows down the flow of current.
- measured in **ohms** (Ω)
- If you add more bulbs in series, the resistance increases



Some materials allow electric charges to pass through them easily, these materials are called **conductors**. Other materials do not allow electric charges to pass through them easily, these materials are called **insulators**.

E: SERIES AND PARALLEL CIRCUITS







Compare the Circuits' Current



SPANISH

Possessive Adjectives

KO Quizlet link https://quizlet.com/_5kno4e

Possessive adjectives

		Singular (one thing owned)	Plural (two or more things owned)
- 2	my	mi → mi perro	mis → mis perro s
Singular (1 owner)	your	tu → tu perro	tus → tus perro s
Sing (1 o	his/her/your (formal)	su → su perro	sus → sus perro s
al (2 or owners)	our	nuestro → nuestro perro nuestra → nuestra rata	nuestros → nuestros perros nuestras → nuestras ratas
Plural (2 or more owners	your	vuestro → vuestro perro vuestra → vuestra rata	vuestros → vuestros perros vuestras → vuestras ratas
P R	their/your (formal)	su → su perro	sus → sus perro s

		Regular		
	nombres sonales o?)	Ejemplo: cocinar (to cook)	Ejemplo: leer (to read)	<i>Ejemplo:</i> escribir (to write)
ar	уо	cocino I cook	leo I read	escribo I write
Singular	tú	cocinas Do you cook?	lees Do you read?	escribes Do you wri
Sil	él/ella	cocina He/she cooks	lee He/she reads	escribe He/she writ
	nosotros/as	cocinamos We cook	leemos We read	escribimos We write
Plural	vosotros/as	cocin <mark>áis</mark> You(pl) cook	le éis You(pl) read	escribís You(pl) wri
	ellos/as	cocinan They cook	leen They read	escriben They write

el profesor es simpático m/s a profesora es simpática f/s os profesores son simpáticos m/pl as profesoras son simpáticas f/pl Remember! a camisa azul as camisas azules These help you improve the quality of yo higher level. Use them frequently to avo			estudiar estudias estudia estudiam estudiáis estudian comer
un poco <i>a little</i> bastante <i>quite</i> muy very demasiado too	y pero también sin emba	and but also rgo however	com o com es com e com emos
hay – there is / there are hay un comedor – there canteen no hay biblioteca – there library	e is a	ir – <i>to go</i> voy vas	com <i>éis</i> com <i>en</i> vivir vivo vives vives
Me gusta Nos gu Te gusta Os gu Le gusta Les gu	sta	vamos vais van	vivi mos viv ís viv en

Domomhow

Radical-changing verbs

e la

> Some verbs change their spelling in all the persons except nosotros (we) and vosotros (you plural). The way they change is shown in the dictionary like this: jugar (ue).

Jugar changes as follows:

jugamos
jugáis
jue gan



HISTORY

1066/Norman Conquest



A: The problems on the death of Edward the Confessor

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Edward had promised the throne to two people.

Edward was 62 when he died but had no heir.

In 1066, there were three men who were strong, experienced warriors who wanted to be king

D: William's preparations for the battle

- 1. William ensured his invasion force was massive: it took 300 ships to transport 10,000 men and 2000 horses from France.
- William positioned watchmen on the road to London, so that he knew when Harold's forces arrived.
- 3. William ensured that his men were wellrested and had feasted before the Battle. This meant they had energy and were relaxed.



B: Key People

<u>Harold Godwinson</u> An Englishman who was in control of Wessex and wanted to take more power as king.

Harald Hardraada A Viking who was planning to invade England and take the throne.

<u>William of Normandy</u> A French ruler who eventually became William the Conqueror.

C: The Battle of Stamford Bridge

Harold Godwinson had to move quickly to deal with the Viking invasion. Harold had already disbanded the southern army earlier in the month, so he moved north with his army and gathered forces as he went.

King Harold reached the outskirts of York, on 24th September 1066. He waited overnight with his troops and came upon the Viking troops at Stamford Bridge the following day. The Vikings camped on the opposite side of the River Derwent from the English and had not defended the bridge across the river properly. Many of the Vikings were without armour as they were unprepared.

The battle was long and bloody. Harald Hardraada was killed.

E: The reasons for William's victory

Luck - William was able to cross the English Channel, due to the change of weather, when Harold Godwinson was battling Harald Hardraada.

Leadership - William arranged his troops carefully and was skilful at leading in battle.

Harold's mistakes - Harold's best troops died at Stamford Bridge and he was disorganised when preparing his troops.

F: Pictures
The Bayeaux Tapestry

GEOGRAPHY The Land of Nottinghamshire



A – The land of Nottinghamshire Sedimentary Rocks: types of rock that are formed by the deposition of small particles of mineral or organic material on the floor of oceans or other bodies of water at the Earth's surface. Sandstone: A sedimentary rock composed of sand-sized grains (generally visible to the eye, but less than 2 mm in size). Limestone: A sedimentary rock consisting mainly of calcium carbonate grains such as shells and coral fragments. Alluvial: referring to the environments, actions and products of rivers and streams. Glacio-fluvial: A term referring to the sediments or land-forms produced by meltwater from a glacier.	B – What is Nottinghamshire like? Nottingham is located on an area of low hills, along the lower valley of the River Trent, and is surrounded by the Sherwood Forest in the north, the Nottinghamshire, Derbyshire and Yorkshire Coalfields in the west, and the Trent and Belvoir Vales in the east and south. Nottingham has a temperate climate and experiences warm mild summers and mild to cool winters with abundant rainfall throughout the year. Native wildlife includes red fox, peregrine falcon and common kingfisher. Notable nature reserves around the city include Attenborough Nature Reserve and Sherwood Forest National Nature Reserve.	 <u>C – The River Trent</u> The Trent rises on the Staffordshire moorlands near the village of Biddulph Moor. The Trent passes through Stoke-on-Trent and merges with the rivers Lyme and Fowlea. As it enters Nottingham it passes the suburbs of Beeston, Clifton . On reaching West Bridgford it flows beneath Trent Bridge near the cricket ground and beside The City Ground, home of Nottingham Forest. Downstream of Nottingham, it passes Stoke Bardolph and Burton Joyce before reaching Gunthorpe. The river now flows north-east. The river reaches the boundary with Yorkshire and joins the River Ouse to form the Humber which flows into the North Sea.
D – Erosional Processes in a River Hydraulic Action: the force of the water breaks rock particles away from the river channel Abrasion: eroded rocks picked up by the river scrape and rub against the channel, wearing it away. Attrition: eroded rocks picked up by the river smash into each other and break into smaller fragments. Their edges also get rounded off as they rub together. Solution: river water dissolves some types of rock, e.g. chalk and limestone	<u>E – Transportation Processes in a River</u> Traction: large particles like boulders are pushed along the river bed by the force of the water Saltation: Pebble-sized particles are bounced along the river bed by the force of the water Suspension: Small particles like silt and clay are carried along by the water Solution: soluble materials are dissolved in the water and are carried along Deposition: This is when a river drops eroded material (load). It happens when a river slows down (loses velocity).	F – River Trent Flood Management Hard engineering: Man-made structures built to control the flow of rivers and reduce flooding Dams: a type of hard engineering. Huge walls built across rivers. An advantage is that you can make hydroelectric power. A disadvantage is that it is very expensive to build a Dam. Soft engineering: Schemes set up using knowledge of a river and its processes to reduce the effects of flooding, these methods are more natural. Flood Plain Zoning: a type of soft engineering. Where areas are banned from being built on. An advantage is that the risk of flooding is lower. A disadvantage is that some areas cannot be built on.

PHILOSOPHY AND ETHICS

Does God exist?

A: Key terms

Key Term



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Agnostic	Do not believe you can prove whether God exists or not or you don't know.
Atheist	Do not believe in God.
Big Bang	Scientific theory for the beginning of the universe.
Creationist	Someone who believes that the universe was created just as it says in their scripture. (literally true)
Literal	Scriptures are the word of God and should not be changed or interpreted.
Liberal	A belief that scriptures need to be interpreted and not taken literally. They should be read like a myth.
Evolution	Living things adapt and develop to their environment.
Omnibenevolent	All loving
Omnipotent	All powerful
Omniscient	All knowing

Definition

B: Arguments against the existence of God

Against

Big Bang: The Big Bang is an event that some people believe was the beginning of the universe. They argue that the universe began when gas and matter expanded outwards from a single point. Galaxies and planets formed over millions of years.

Evolution: Life formed on earth through a process called evolution. Plant life developed first. Then simple life forms appeared. These gradually evolved over millions of years into the birds, fish and animals, including humankind, we have today. This theory was developed by Charles Darwin.

The Problem of Evil: There is too much evil and suffering in the world. If God was omnipotent then he would stop evil things happening. If God was omniscient then he would know bad things were going to happen and stop them before they happened. If God was omnibenevolent then he would not want us to suffer. Therefore many people believe that God does not exist.

KNOWLEDGE ORGANISER Autumn Term 2 Project: Identity and Emotion



There is no Knowledge Organiser for art this half term as you will be completing a project on identity and emotion. Further details of this will be given by your art teacher and this will be split into 3 chillies to help you complete the project through the term, please ensure you keep this sheet in your homework folder safely.

You should use the weekly slot for art in order to complete this project through the term.

Artists you may study in your project:

ART

YEAR 7



Key Words you may use in your project:

colourful, bold, expressive, simple, composition, composed, contrast(ing), symmetrical, asymmetrical, texture, tone, pattern, bright, detailed, realistic, distorted, lively, subtle, muted, emotive, mood, rough, smooth, pigment, sadness, happiness, form, line, disturbed, flat, expressionless, abstract, animated, brushstrokes.



DRAMA

Physical Theatre / Surrealism



Section A: Mime and Slow Motion and tableau.

<u>Mime</u> The theatrical technique of suggesting action, character, or emotion without words, using only gesture, expression, and movement. Slow motion The theatrical technique of using movement that is slowed down and is often exaggerated to create an effect or mark an important moment in a performance.



<u>Tableau</u>

A still image created by

the actors to mark an

important moment of a

performance or for a

transition between

scenes



<u>Surrealism</u> means out of this world, unusual

and weird. Almost as if

existing in dreams.



<u>C: Stimulus, Soundscape and</u> <u>Essence Machine</u>

> Soundscape Using the voice and the body to make sound for a performance.

<u>Stimulus</u> An item (object, song, picture, quotation) that evokes a response of some sort.

Essence machine A combination of sound and gesture that is repeated for effect.

B: Performance Styles – NATURALISM AND PHYSICAL THEATRE

Naturalism CONSTANTIN STANISLAVSKI

- A style of theatre that aims to recreate real life on stage. Can also be known as <u>realism.</u>
- Every aspect of the performance has to be <u>believable</u> 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.

Physical Theatre ANTONIN ARTAUD + BERTOLT BRECHT

- A style which uses <u>choreographed</u> <u>movement and dancing</u> to tell a story.
- These movements can be combined with traditional dialogue or used on their own.
- Sometimes the <u>actors' bodies are used as</u> <u>objects onstage.</u>
- There is <u>nothing realistic</u> about this way of movement.
- Performers can <u>communicate emotion</u> to the audience that would be difficult to convey using dialogue.



COMPUTER SCIENCE

Presenting Data



A: Definition presenting information

Presenting information clearly and effectively is a key skill to get your message or opinion across and, today, presentation skills are required in almost every field.

B: Ways of presenting information

- Text
- Sound
- Images
- Charts and tables

C: What can be produced to present information



D: Audience and what is it

A target audience is a specific group of people with shared characteristics who are most likely to be interested in your products or services.. E: Memorisation
There are key elements of each examination course that need to be fully memorised in order for you to obtain the

	5	, , <u>,</u>
	What to include when planning for	WIX:
5	target audiences:	
	Choice of fonts	What is it?
	Choice of colours	Wix.com offers stunning designs and an
	Layout	easy to use website builder
	Design	How to use it
	Content	Log into <u>www.wix.com</u> and make an
	5 elements of web design:	account
	Navigation	Keywords associated with wix
╧║	User ability	Editor
	Accessibility	
	Content	Template Novigation
	Layout/design	Navigation
		• Images
	Information threats :	• Text
	Hacking – illegal entry to data through	• Menu
	computer misuse	Slideshow
	Phishing – fake websites and emails that	Tools
	take your personal information	• Video
	Viruses and malware – software that	Background
	harms the PC	Page background

highest marks possible in the exam. The information below should be a priority for memorising.

F: Software used to present information









PowerPoint

Publisher

Photo Shop

Dream Weaver

PE – Boys and Girls

Warm Ups





DT – Miss Radford's Group

Food

A: Key words

The bridge hold- Shaping your hand like a bridge for safe chopping

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



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



DT – Miss Cockayne's Group

Textiles

A: Fabric

Natural Fabrics: Cloth made from natural substances, such as; cotton and linen from plants, wool from goats and sheep and leather from cows' skin.

Man-made Fabrics: Cloth made from man made chemicals, usually different forms of plastic, such as Polyester, Nylon, Viscose and Lycra. All these are made from oil.

Decorative: Something done to look attractive

Pattern: Templates used in sewing to cut fabric to the right shape and size.

Fabric Scissors: Special sharp scissors used for cutting fabric only.





F: Seam Allowance

The standard seam allowance is 15mm. Usually this measurement is already added onto a dressmaking pattern but occasionally you may have to add it yourself.

Maintaining a standard seam allowance is one of the most important ways in which we use Quality Control to produce accurate and symmetrical products.

All our sewing machines have markings on the needle bed to help your accuracy in measuring and maintaining this seam width.







Danger

During practical keep all chairs tucked under the tables.

Keep noise levels low so you can hear teacher instructions

Only one person on each sewing machine. •

B: Health and Safety in the Textiles Room

Carry scissors with the blade pointing down.

C: Block Printing

•

Block printing involves carving a pattern or design onto a block. The design is covered in paint, ink or dye and then stamped onto fabric.

Make sure the sewing machine is switched off while threading up.

Notes/Reminders:		

BE KIND MABD MOBK