



# Gloucester Academy

*Unit 1*

*Year 11*

*Knowledge Organiser*

*CORE SUBJECTS*

Knowledge is power. Information is liberating.

## Logins:

### School email



Username: \_\_\_\_\_@gloucesteracademy.co.uk

Password: \_\_\_\_\_

### School computer



Username: \_\_\_\_\_

Password: \_\_\_\_\_

### sparx.co.uk



Username: \_\_\_\_\_

Password: \_\_\_\_\_

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## Homework Guidance:

**Knowledge Organiser homework is based on self-quizzing.** It is expected that you complete one page of self-quizzing, every day. This should take around 30 minutes. You should not leave blank lines on the page, including in between pieces of information (if you are self-quizzing diagrams, you can use more than one line to copy the diagram into your practice book). The information you self-quiz should be numbered in your practice book with the same numbers used on the Subject Knowledge Organiser. Tutors will check your practice book. They will be looking for a full page of self-quizzing on the correct numbers of the Subject Knowledge Organiser, as well as for purple pen ticks/corrections and good presentation (including your H/W, Title and Date underlined with a ruler). Your writing needs to be neat and legible. If we feel that any of these elements are not up to standard, you will be issued with a same day detention.

A demonstrational video can be found here:

<https://www.gloucesteracademy.com/students/homework-and-revision-guidance/knowledge-organisers>

**These are the steps you should follow to complete effective self-quizzing:**

**look □ repeatedly say aloud □ cover □ write □ check**

1. **Identify** the Subject Knowledge Organiser segment for the day from your homework timetable.
2. **Open up your practice book** and on the top line, write 'H/W' in the margin. On the other side of the margin line, write the Title (the subject you are completing) the Week (which week you are completing). Write the Date on the right hand side. Underline everything with a ruler.
3. **Place your Subject Knowledge Organiser segment in front of you.** Start with the first numbered piece of information within the weekly segment. Read and memorise the information - we recommend saying it aloud. Repeat the process several times, until you are confident to write the knowledge point down.
4. **Close your Subject Knowledge Organiser** or cover up the piece of information, and try to recall the knowledge. On the line directly beneath your H/W, Title and Date, write the correct number from the Subject Knowledge Organiser and the piece of information from memory, ensuring there are no blank lines.
5. **Check it and correct any mistakes.** Open up your Subject Knowledge Organiser and look at the piece of information – using a purple pen tick the piece of information in your practice book if you have recalled it correctly (word for word, correctly spelled). If you have incorrectly recalled or missed any part of the information, use your purple pen to put a cross next to that knowledge point.
6. **If you recalled the piece of information incorrectly,** go back to step 3 and **in purple pen,** repeat the process again for the same piece of information (cover up previous attempts in your practice book as well as the piece of information in your Subject Knowledge Organiser). When you have recalled the information correctly, tick the attempt and move on to the next piece of information within the weekly segment.
7. **Repeat the steps above** until you have recalled and written down all pieces of information within the weekly segment. If this has not filled one full page of your practice book, go back to the first piece of information within the weekly segment and repeat the process again, until you have filled an entire page.

Example page:

H/W Science week 3

21 September 2020

1. A cell. This is the simplest unit of a living organism. ✓
2. Cell membrane. This is a ~~partaly~~ permeable barrier and controls what goes in and out of the cell. X
2. Cell membrane. This is a partially permeable barrier and controls what goes in and out of the cell. ✓
3. Cytoplasm. This is a jelly-like substance in cells where chemical reactions occur. ✓
4. Nucleus. This contains DNA and controls the cell. ✓
5. Mitochondion. A sub-cellular structure where respiration takes place to make energy. X
5. Mitochondrion. A sub-cellular structure where respiration takes place to make energy. ✓
6. Hypothesis. An idea that explains how or why something happens. ✓
7. Prediction. A statement suggesting what you think will happen in an experiment / investigation ✓
8. Control variable. The variable that must be kept constant so that it doesn't affect the outcome of the investigation. (variable = something that can change in an experiment). ✓
9. Independent variable. The variable that is changed in an experiment / investigation. (variable = something that can change in an experiment) ✓
10. Dependent variable. The variable that is recorded and measured for each change of the independent variable. (variable = something that can change in an experiment) X
10. Dependent variable. The variable that is measured

## Homework Timetable:

You are expected to complete at least 30 minutes of homework in your practice book every day. You are expected to complete Sparx Maths homework which we recommend you split into three sessions, per week. Each of these are expected to take up to 1 hour.

	Monday	Tuesday	Wednesday	Thursday	Friday	Weekend
Knowledge Organiser in your practice book <b>30 minutes</b>	Science & Maths	English Literature	Choice 1	Choice 2	Choice 3	Choice 4
Online session <b>30 minutes</b>	Sparx Maths		Sparx Maths		Sparx Maths	
Online session <b>30 minutes</b>	English Seneca	English Seneca	English Seneca	English Seneca		

## Self-tracker:

Week	Homework	Monday	Tuesday	Wednesday	Thursday	Friday	Weekend
<b>1</b> w/c 01/09/25	KO						
	Online						
<b>2</b> w/c 08/09/25	KO						
	Online						
<b>3</b> w/c 15/09/25	KO						
	Online						
<b>4</b> w/c 22/09/25	KO						
	Online						
<b>5</b> w/c 29/09/25	KO						
	Online						
<b>6</b> w/c 06/10/25	KO						
	Online						
<b>7</b> w/c 13/10/25	KO						
	Online						
<b>8</b> w/c 20/10/25	KO						
	Online						
<b>9</b> w/c 03/11/25	KO						
	Online						
<b>10</b> w/c 10/11/25	KO						
	Online						
<b>11</b> w/c 17/11/25	KO						
	Online						
<b>12</b> w/c 24/11/25	KO						
	Online						
<b>13</b> w/c 01/12/25	KO						
	Online						

# Maths Homework – Sparx Maths

You will get one [sparxmaths.com](https://www.sparxmaths.com) assignment to complete each week. Your homework is made up of personalised questions that will help you develop your learning in maths. This will include topics you have covered within the past week and some older material for you to revise. The homework may include multiple tasks. We suggest you split it into three manageable chunks and complete this every Wednesday, Friday and Monday.

You should be able to complete all of the questions without too much support, however, if there is a question which you are finding hard to complete, we recommend you watch the video. If you are still unable to solve the question, move on to the next one and talk to your teacher before it's due.

**Don't forget every lunchtime there is homework support!**

For more information and guidance please go to:

<https://www.gloucesteracademy.com/students/homework-and-revision-guidance/sparx-maths>

# Science Knowledge Organiser - Mondays

Week 1 Sampling	Piece of Information	Answer
1	Quadrat	Name a square frame used in biological sampling?
2	Transect	Name a line along which systematic sampling occurs?
3	Producer	Name any organism that photosynthesises at the start of a food chain?
4	Consumer	Name an organism in a food chain which consumes other organisms?
5	Combustion	What is the scientific name for burning?
6	Precipitation	Rain, sleet, snow and hail are all examples of...?
7	Evaporation	Describe a change of state from liquid to a gas?
8	Biodiversity	What is the variety of living organisms in an area called?
9	Acid Rain	Name a type of precipitation that is acidic due to air pollution?
10	Deforestation	What name is given to clearing trees from an area which will then be used for other purposes?

Week 2 Biodiversity	Piece of Information	Answer
1	Breeding Programme	Name a conservation method in zoos to breed captive animals together to increase numbers and the gene pool?
2	Population	What is the total number of all organisms of the same species in an area?
3	Community	What is a group of different species living in the same area called?
4	Competition	What is the contest between organisms for resources such as food and shelter?
5	Interdependence	Name the term that describes how species depend on one another?
6	Abiotic Factors	What are the non-living parts of the environment called?
7	Biotic Factors	What are the living parts of the environment called?
8	Invasive Species	What is an organism that is not native to the environment?
9	Ecosystem	Describe the interaction between a community of living organisms and the nonliving components?
10	Structural Adaptation	A type of adaptation based on physical features such as body shape?

Week 3 Rates	Piece of Information	Answer
1	Activation energy	What is the minimum energy particles must have to react?
2	Catalyst	What is a substance that lowers activation energy and provides an alternative pathway?
3	Enzymes	Name molecules that act as catalysts in biological systems?
4	Closed system	Name a system where substances cannot escape or enter?
5	Dynamic Equilibrium	The term used to describe the forward and reverse reaction happening at the same rate?
6	Tangent	Name a line drawn on a curve to identify the gradient?
7	Gas Syringe	Name a piece of equipment used to collect gas products?
8	Inverted measuring cylinder	Name an upside down piece of equipment used to measure gas production?
9	Kinetic energy	Name the store of energy found in moving objects?
10	Pressure	What is the force acting over an area as a result of collisions between particles and the walls of their container?

Week 4 Rates	Piece of Information	Answer
1	Concentration	What is the number of particles dissolved in a solvent called?
2	Powder	Name a substance with a very high surface area?
3	B x H x L	What is the formula to calculate the volume of a regular object?
4	Mean	What is calculated from: Values added/Total number of values?
5	Linear	Describe a straight section on a graph?
6	Non-linear	Describe a curved section on a graph?
7	Proportional	Describe a graph which shows a linear relationship but does not go through the origin?
8	Directly Proportional	Describe a graph which shows a linear relationship and passes through the origin (0)?
9	Inversely Proportional	Describe a graph which shows that when one variable increases, the other variable decreases, or vice versa?
10	Conical Flask	Name a piece of glassware that can be used for reacting chemicals together safely?

Week 5 Homeostasis	Piece of Information	Answer
1	Homeostasis	What is the maintenance of a constant internal environment?
2	Effector	Always a muscle or a gland?
3	Central Nervous System	The brain and the spine are part of the ...?
4	Receptor	Name a group of cells which detect a stimulus and trigger electrical impulses?
5	Sensory Neurone	Name a neurone that carries electrical impulses to the central nervous system?
6	Relay Neurone	Name a neurone that carries electrical impulses within the central nervous system?
7	Motor Neurone	Name a neurone that carries electrical impulses away from the central nervous system to the effector?
8	Synapse	Name the gap between neurons?
9	Reflex Response	Name an automatic response that you do not think about?
10	Reflex Arc	Name the pathway of neurons in a reflex action?

Week 6 Homeostasis	Piece of Information	Answer
1	Gland	Name a structure in the body that releases hormones?
2	Pituitary Gland	Name the master gland that affects other glands in the body?
3	Insulin	Name a hormone that lowers blood glucose?
4	Glycogen	Name a storage form of glucose stored in the liver?
5	Type 1 Diabetes	Name a medical condition diagnosed in young people who do not produce insulin?
6	Type 2 Diabetes	Name a medical condition diagnosed later in life preventing the person responding to insulin?
7	Oestrogen	Name a female sex hormone produced in the ovaries?
8	Testosterone	Name a male sex hormone produced in the testes that controls puberty?
9	Ovulation	Name a process that causes the release of an egg from an ovary?
10	Barrier	Name a method of contraception that prevents sperm from reaching an egg?

Week 7 Waves	Piece of Information	Answer
1	Transverse wave	A wave in which the vibrations is at right angle to the transfer of energy.
2	Longitudinal wave	A wave in which the vibrations are parallel to the transfer of energy.
3	Amplitude	The height of the wave from the normal.
4	Wavelength	The distance from one point on one wave to the same point on the next wave.
5	Period	The time taken to produce 1 wave.
6	Frequency	The number of waves produced each second.
7	Angle of refraction	The angle between the refracted ray and the normal.
8	Wave speed = frequency x wavelength	The equation that links frequency, wave speed and wavelength.
9	/100	The unit conversion from cm to m.
10	Ripple tank	Used to investigate wave speed in a liquid.

Week 8 Waves	Piece of Information	Answer
1	Frequency	The number of waves produced each second.
2	Angle of refraction	The angle between the refracted ray and the normal.
3	Wave speed = frequency x wavelength	The equation that links frequency, wave speed and wavelength.
4	/100	The unit conversion from cm to m.
5	Ripple tank	Used to investigate wave speed in a liquid.
6	Transverse wave	A wave in which the vibrations is at right angle to the transfer of energy.
7	Longitudinal wave	A wave in which the vibrations are parallel to the transfer of energy.
8	Amplitude	The height of the wave from the normal.
9	Wavelength	The distance from one point on one wave to the same point on the next wave.
10	Period	The time taken to produce 1 wave.

Week 9 Forces Motion	Piece of Information	Answer
1	Velocity	A vector - a speed in a defined direction. Unit is m/s.
2	Displacement	A vector - a distance travelled in a defined direction. Unit is m.
3	A push or a pull	Force
4	Magnetism, Gravity and Electrostatic Forces	Examples of non-contact forces.
5	Centre of Mass	The point through which the weight of an object can be taken to act.
6	3m/s	Typical running speed.
7	6m/s	Typical cycling speed.
8	Inertia	Objects remain in their existing state of motion unless acted on by an unbalanced force.
9	Peer review	Results reviewed by other scientists to help prevent false claims, avoid bias, and make sure that conclusions are valid.
10	Terminal velocity	When the weight of an object is balanced by resistive forces.

Week 10 Forces Motion	Piece of Information	Answer
1	Velocity	A vector - a speed in a defined direction. Unit is m/s.
2	Displacement	A vector - a distance travelled in a defined direction. Unit is m.
3	A push or a pull	Force
4	Magnetism, Gravity and Electrostatic Forces	Examples of non-contact forces.
5	Centre of Mass	The point through which the weight of an object can be taken to act.
6	3m/s	Typical running speed.
7	6m/s	Typical cycling speed.
8	Inertia	Objects remain in their existing state of motion unless acted on by an unbalanced force.
9	Peer review	Results reviewed by other scientists to help prevent false claims, avoid bias, and make sure that conclusions are valid.
10	Terminal velocity	When the weight of an object is balanced by resistive forces.

Week 11 Inheritance	Piece of Information	Answer
1	Diploid	Cells with the full number of chromosomes.
2	Haploid	Cells that have half the normal number of chromosomes.
3	Meiosis	Cell division which results in 4 genetically different daughter cells.
4	Double Helix	Spiral structure of DNA
5	Genome	The entire whole DNA for an organism.
6	Continuous data	Data that comes in a range not groups.
7	Discontinuous data	Data that comes in groups not in a range.
8	Mutation	A change to the DNA.
9	Selective breeding	When breeders choose parents with desirable characteristics to pass on to offspring.
10	Transgenic	A genetically engineered organism.

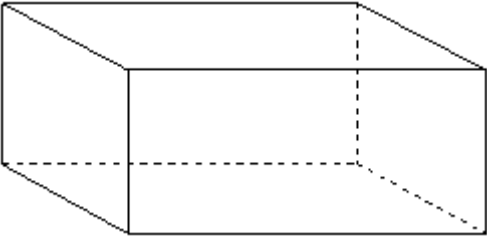
Week 12 Inheritance	Piece of Information	Answer
1	Diploid	Cells with the full number of chromosomes.
2	Haploid	Cells that have half the normal number of chromosomes.
3	Meiosis	Cell division which results in 4 genetically different daughter cells.
4	Double Helix	Spiral structure of DNA
5	Genome	The entire whole DNA for an organism.
6	Continuous data	Data that comes in a range not groups.
7	Discontinuous data	Data that comes in groups not in a range.
8	Mutation	A change to the DNA.
9	Selective breeding	When breeders choose parents with desirable characteristics to pass on to offspring.
10	Transgenic	A genetically engineered organism.

Week 13 Evolution	Piece of Information	Answer
1	Evolution	The changes in a species over a very long time.
2	Species	Organisms that can reproduce with each other to produce fertile offspring.
3	MRSA	Antibiotic resistant super bacteria. Not killed by antibiotics.
4	Extinct	No living members of a species remain.
5	Mass extinction	A large number of extinctions are happening at the same time.
6	Continuous data	Data that comes in a range not groups.
7	Discontinuous data	Data that comes in groups not in a range.
8	Mutation	A change to the DNA.
9	Selective breeding	When breeders choose parents with desirable characteristics to pass on to offspring.
10	Transgenic	A genetically engineered organism.

## Maths Knowledge Organiser - Mondays

Week 1 01/09/25	Piece of Information	Answer
1	$15fg$	Simplify $3f \times 5g$
2	320g	Change 0.32 kilograms to grams.
3	30	Here are the first 4 terms of a sequence.  2            9            16            23  Work out the 10th term of the sequence.
4	500	Write 478 to the nearest hundred.
5	$\frac{3}{100}$	Write 3% as a fraction.
6	90	Work out $\frac{1}{8}$ of 720
7	42 or 48	Write down a multiple of 6 that is between 40 and 50.
8	40	Write down the value of the 4 in the number 542.3
9	196	Here are four digits.  5            6            1            9 Write down the three digit number closest to 200 that can be made with three of the digits.
10	1.756 kg	Change 1756 grams to kilograms.

Week 2 08/09/25	Piece of Information	Answer
1	7.7 litres	Change 7700 millilitres to litres.
2	$4(m + 3)$	Factorise $4m + 12$
3	$2y$	Simplify $y + 3y - 2y$
4	Incorrect order of operations	<p>Jenny is asked to find the value of</p> $12 - 2 \times 4$ <p>Here is her working.</p> $12 - 2 \times 4 = 10 \times 4 = 40$ <p>Jenny's answer is wrong.</p> <p>Explain what Jenny has done wrong.</p>
5	$\frac{2}{6}$ or $\frac{1}{3}$	<p>An ordinary fair dice is thrown once.</p> <p>Write down the probability that the dice lands on a number greater than 4</p>
6	$7y$	<p>There are <math>y</math> boats on a lake.</p> <p>There are 7 people in each boat.</p> <p>Write an expression, in terms of <math>y</math>, for the total number of people in the boats.</p>
7	25	<p>Here is a list of numbers.</p> $21 \quad 22 \quad 23 \quad 24 \quad 25 \quad 26 \quad 27 \quad 28 \quad 29$ <p>From the numbers in the list, write down a square number.</p>
8	-7, -4, -2, 1, 8	<p>Write these numbers in order of size.</p> <p>Start with the smallest number.</p> $8 \quad -4 \quad 1 \quad -7 \quad -2$

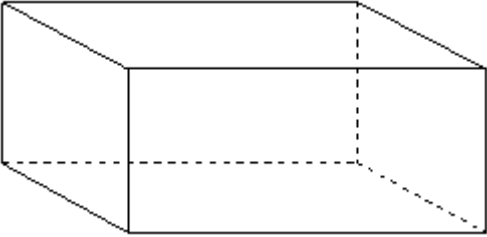
9	Cuboid	<p data-bbox="555 147 799 181">Here is a 3-D shape.</p>  <p data-bbox="555 544 1023 577">Write down the name of this 3-D shape.</p>
10	1.6	<p data-bbox="555 607 995 640">Write 1.59 correct to 1 decimal place.</p>

Week 3 15/09/25	Piece of Information	Answer
1	$3p$	Simplify $5p - 3p + p$
2	23, 29	Here is a list of numbers.  21 22 23 24 25 26 27 28 29  Write down all the prime numbers in the list.
3	60	Write 56.78 correct to one significant figure.
4	4 000 m	Change 4 kilometres into metres.
5	$8np$	Simplify $2 \times n \times p \times 4$
6	$15fg$	Simplify $3f \times 5g$
7	320g	Change 0.32 kilograms to grams.
8	65	Here are the first 4 terms of a sequence.  2            9            16            23  Work out the 10th term of the sequence.
9	500	Write 478 to the nearest hundred.
10	$\frac{3}{100}$	Write 3% as a fraction.

Week 4 22/09/25	Piece of Information	Answer
1	4	Work out the cube root of 64
2	2 000 000	Write the number two million in figures.
3	Yes, because all other even numbers have 2 as a factor	Katherine says, <p style="text-align: center;">"2 is the only even prime number."</p> Is Catherine right? You must give a reason for your answer.
4	3:1	Rosie and Dan share some sweets. Dan gets $\frac{1}{4}$ of the sweets. Write down the ratio of the number of sweets Rosie gets to the number of sweets Dan gets.
5	$\frac{5}{7}$	$\frac{2}{7} + \boxed{\phantom{000}} = 1$
6	90	Work out $\frac{1}{8}$ of 720
7	42 or 48	Write down a multiple of 6 that is between 40 and 50.
8	40	Write down the value of the 4 in the number 542.3
9	196	Here are four digits. <p style="text-align: center;">5          6                          1    9</p> Write down the three digit number closest to 200 that can be made with three of the digits.
10	1.756 kg	Change 1756 grams to kilograms.

Week 5 29/09/25	Piece of Information	Answer
1	$2m^3$	Simplify $m^3 + m^3$
2	18	Here is a list of numbers. 7      8      15      16      18      22  Write down the number from the list that is a multiple of 6.
3	7 776	Find the value of $6^5$
4	10	Find $\frac{1}{3}$ of 30
5	8000	Write the number 8375 correct to the nearest thousand.
6	7.7 litres	Change 7700 millilitres to litres.
7	$4(m + 3)$	Factorise $4m + 12$
8	$2y$	Simplify $y + 3y - 2y$
9	Incorrect order of operations	Jenny is asked to find the value of $12 - 2 \times 4$  Here is her working. $12 - 2 \times 4 = 10 \times 4 = 40$  Jenny's answer is wrong.  Explain what Jenny has done wrong.
10	$\frac{2}{6}$ or $\frac{1}{3}$	An ordinary fair dice is thrown once.  Write down the probability that the dice lands on a number greater than 4

Week 6 06/10/25	Piece of Information	Answer
1	-20 or divide by 3	<p>Here is a number machine.</p> <p>input → <math>+ 13</math> → <input type="text"/> → output</p> <p>When the input is 17, the output is 10</p> <p>Complete the number machine.</p>
2	$\frac{1}{2}$	<p>Fully simplify <math>\frac{15}{30}</math></p>
3	-3, -1, 0, 2, 4	<p>Write the following numbers in order of size.</p> <p>Start with the smallest number.</p> <p>-3      4      0      -1      2</p>
4	43.7	<p>Write a number in each box to make the calculation correct.</p> <p>56.3 + <input type="text"/> = 100</p>
5	0.4	<p>Convert 40% to a decimal.</p>
6	$7y$	<p>There are <math>y</math> boats on a lake.</p> <p>There are 7 people in each boat.</p> <p>Write an expression, in terms of <math>y</math>, for the total number of people in the boats.</p>
7	25	<p>Here is a list of numbers.</p> <p>21   22   23   24   25   26   27   28   29</p> <p>From the numbers in the list, write down a square number.</p>
8	-7, -4, -2, 1, 8	<p>Write these numbers in order of size.</p> <p>Start with the smallest number.</p>

		8      -4      1      -7      -2
9	Cuboid	<p>Here is a 3-D shape.</p>  <p>Write down the name of this 3-D shape.</p>
10	1.6	Write 1.59 correct to 1 decimal place.

Week 7 13/10/25	Piece of Information	Answer
1	0.9	Write as a decimal.
2	48 or 56	Write down a multiple of 8 that is between 41 and 60
3	Must order the numbers first.	<p>Here is a list of numbers.</p> <p>12    15    14    17    22    19    13</p> <p>Bridgit says,</p> <p>“To work out the median you find the middle number, so the median of these numbers is 17”</p> <p>Bridgit’s answer is <b>not</b> correct.</p> <p>What is wrong with Bridgit’s method?</p>
4	4 000	Write 3758 correct to the nearest 1000
5	243	Work out the value of $3^5$
6	$3p$	Simplify $5p - 3p + p$
7	23, 29	Here is a list of numbers.

		21 22 23 24 25 26 27 28 29
		Write down all the prime numbers in the list.
8	60	Write 56.78 correct to one significant figure.
9	4 000 m	Change 4 kilometres into metres.
10	8np	Simplify $2 \times n \times p \times 4$

Week 8 20/10/25	Piece of Information	Answer
1	$y = 12$	Solve $\frac{y}{4} = 3$
2	2500	Write the number 2538 correct to the nearest hundred.
3	$f = 5.5$	Solve $2f + 7 = 18$
4	12	Find $\frac{1}{5}$ of 60
5	24	Here is a list of numbers. 21 22 23 24 25 26 27 28 29 From the numbers in the list, write down a number that is a multiple of <b>both</b> 4 and 6.
6	4	Work out the cube root of 64
7	2 000 000	Write the number two million in figures.
8	Yes, because all other even numbers have 2 as a factor	Katherine says, "2 is the only even prime number." Is Catherine right? You must give a reason for your answer.

9	3:1	Rosie and Dan share some sweets. Dan gets $\frac{1}{4}$ of the sweets.  Write down the ratio of the number of sweets Rosie gets to the number of sweets Dan gets.
10	$\frac{5}{7}$	$\frac{2}{7} + \boxed{\dots\dots\dots} = 1$

Week 9 03/11/25	Piece of Information	Answer
1	$2m^3$	Simplify $m^3 + m^3$
2	18	Here is a list of numbers. 7      8      15      16      18      22  Write down the number from the list that is a multiple of 6.
3	7 776	Find the value of $6^5$
4	10	Find $\frac{1}{3}$ of 30
5	8000	Write the number 8375 correct to the nearest thousand.
6	-20 or divide by 3	Here is a number machine. <input/> → $\boxed{+ 13}$ → $\boxed{\dots\dots\dots}$ → output When the input is 17, the output is 10 Complete the number machine.
7	$\frac{1}{2}$	Fully simplify $\frac{15}{30}$
8	-3, -1, 0, 2, 4	Write the following numbers in order of size. Start with the smallest number.  -3      4      0      -1      2

9	43.7	Write a number in each box to make the calculation correct.  56.3 + <input type="text"/> = 100
10	0.4	Convert 40% to a decimal.

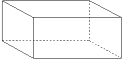
Week 10 10/11/25	Piece of Information	Answer
1	0.9	Write as a decimal.
2	48 or 56	Write down a multiple of 8 that is between 41 and 60
3	Must order the numbers first.	Here is a list of numbers. 12    15    14    17    22    19    13  Bridgit says,  "To work out the median you find the middle number, so the median of these numbers is 17"  Bridgit's answer is <b>not</b> correct.  What is wrong with Bridgit's method?
4	4 000	Write 3758 correct to the nearest 1000
5	243	Work out the value of $3^5$
6	$y = 12$	Solve $\frac{y}{4} = 3$
7	2500	Write the number 2538 correct to the nearest hundred.
8	$f = 5.5$	Solve $2f + 7 = 18$
9	12	Find $\frac{1}{3}$ of 60
10	24	Here is a list of numbers. 21    22    23    24    25    26    27    28    29

		From the numbers in the list, write down a number that is a multiple of <b>both</b> 4 and 6.
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Week 11 17/11/25	Piece of Information	Answer
1	$2m^3$	Simplify $m^3 + m^3$
2	18	Here is a list of numbers. 7      8      15      16      18      22  Write down the number from the list that is a multiple of 6.
3	7 776	Find the value of $6^5$
4	10	Find $\frac{1}{3}$ of 30
5	8000	Write the number 8375 correct to the nearest thousand.
6	0.9	Write as a decimal.
7	48 or 56	Write down a multiple of 8 that is between 41 and 60
8	Must order the numbers first.	Here is a list of numbers. 12    15    14    17    22    19    13  Bridgit says,  "To work out the median you find the middle number, so the median of these numbers is 17"  Bridgit's answer is <b>not</b> correct.  What is wrong with Bridgit's method?
9	4 000	Write 3758 correct to the nearest 1000
10	243	Work out the value of $3^5$




Week 12 24/11/25	Piece of Information	Answer
1	$15fg$	Simplify $3f \times 5g$
2	320g	Change 0.32 kilograms to grams.
3	65	Here are the first 4 terms of a sequence.  $2 \qquad 9 \qquad 16 \qquad 23$  Work out the 10th term of the sequence.
4	500	Write 478 to the nearest hundred.
5	$\frac{3}{100}$	Write 3% as a fraction.
6	90	Work out $\frac{1}{8}$ of 720
7	42 or 48	Write down a multiple of 6 that is between 40 and 50.
8	40	Write down the value of the 4 in the number 542.3
9	196	Here are four digits.  $5 \qquad 6 \qquad 1 \qquad 9$ Write down the three digit number closest to 200 that can be made with three of the digits.
10	1.756 kg	Change 1756 grams to kilograms.




Week 13 01/12/25	Piece of Information	Answer
1	7.7 litres	Change 7700 millilitres to litres.
2	$4(m + 3)$	Factorise $4m + 12$
3	$2y$	Simplify $y + 3y - 2y$
4	Incorrect order of operations	<p>Jenny is asked to find the value of <math>12 - 2 \times 4</math></p> <p>Here is her working.</p> $12 - 2 \times 4 = 10 \times 4 = 40$ <p>Jenny's answer is wrong.</p> <p>Explain what Jenny has done wrong.</p>
5	$\frac{2}{6}$ or $\frac{1}{3}$	<p>An ordinary fair dice is thrown once.</p> <p>Write down the probability that the dice lands on a number greater than 4</p>
6	$7y$	<p>There are <math>y</math> boats on a lake.</p> <p>There are 7 people in each boat.</p> <p>Write an expression, in terms of <math>y</math>, for the total number of people in the boats.</p>
7	25	<p>Here is a list of numbers.</p> <p>21   22   23   24   25   26   27   28   29</p> <p>From the numbers in the list, write down a square number.</p>
8	-7, -4, -2, 1, 8	<p>Write these numbers in order of size.</p> <p>Start with the smallest number.</p> <p>8   -4   1   -7   -2</p>







9	Cuboid	<p data-bbox="555 147 799 181">Here is a 3-D shape.</p>  <p data-bbox="555 349 1023 383">Write down the name of this 3-D shape.</p>
10	1.6	<p data-bbox="555 412 995 445">Write 1.59 correct to 1 decimal place.</p>





# English Literature Knowledge Organiser - Tuesdays




Week 1 02/09/25	Piece of Information	Answer	Text
1	penury	the state of extreme poverty ( <i>pennilessness</i> )	ACC
2	ignorance	lack of knowledge or information ( <i>inexperience</i> )	ACC
3	1843	Dickens writes <i>A Christmas Carol</i> in December of this year	ACC
4	New Poor Laws	In 1834 a set of laws which placed further restrictions on the poor	ACC
5	Victorian era	the period when <i>A Christmas Carol</i> was written; Victoria was queen	ACC
6	socialism	A political system that believes production should be owned by the general community, not individuals.	AIC
7	capitalism	A political system that believes production should be owned by individuals, not the community.	AIC
8	"pink and intimate"	The stage directions for the lighting before the Inspector arrives 	AIC
9	"brighter and harder"	The stage directions for the lighting when the inspector arrives 	AIC
10	"unsinkable, absolutely unsinkable [...] silly little war scares"	Mr Birling's opinion on the titanic and the future in 1912 	AIC




Week 2 09/09/25	Piece of Information	Answer	Text
1	misanthropic	having a dislike of other people ( <i>unsociable</i> )	ACC
2	avaricious	having extreme greed for money or material gain ( <i>greedy</i> )	ACC
3	miserly	someone who keeps their wealth and spends little ( <i>cheapskate</i> )	ACC
4	covetous	a great desire to possess things owned by others ( <i>grasping</i> )	ACC
5	apathetic	showing no interest, enthusiasm or concern ( <i>uninterested</i> )	ACC
6	1912	The year the events of <i>An Inspector Calls</i> take place	AIC
7	1946	The year <i>An Inspector Calls</i> was first performed in Britain	AIC
8	"Is it the one you wanted me to have?"	A question asked by Sheila to Gerald about her ring 	AIC
9	"As if we were all mixed up together, like bees in a hive"	A comment made by Mr Birling about the idea of community 	AIC
10	"sharp ring" "massiveness, solidity and purposefulness"	The stage direction for the Inspector's arrival and his appearance 	AIC







Week 3 16/09/25	Piece of Information	Answer	
1	remorse	deep regret or guilt for a wrong committed ( <i>guilt</i> )	AIC
2	redemption	the action of being saved from sin, error or evil ( <i>saving</i> )	AIC
3	philanthropic	someone seeking to promote the welfare of others ( <i>charitable</i> )	ACC
4	benevolent	wanting to do good for others ( <i>warm-hearted</i> )	ACC
5	repentance	a real feeling of regret that leads you to wish away your past wrongs	ACC
6	capitalism	A political system that believes production should be owned by individuals, not the general community	AIC
7	socialism	A political system that believes production should be owned by the general community, not individuals.	AIC
8	"But these girls aren't cheap labour - they're <i>people</i> "	A statement made by Sheila towards her father about his actions	 AIC
9	"mummy" "daddy" "mother" "father"	The changing terms Sheila uses for her parents	 AIC
10	"No, he's giving us the rope – so that we'll hang ourselves"	Sheila's metaphorical comment about the inspector's intentions	 AIC







Week 4 23/09/25	Piece of Information	Answer	Text
1	Thomas Malthus	An economist who believed that due to the growing population, disease and starvation would be a natural way to curb overcrowding	ACC
2	Industrial revolution	Movement from rural areas to cities due to engines and factory growth	ACC
3	Ragged schools	A charity education system for the poor (Dickens supported this)	ACC
4	The hungry forties	The name for the 1840s as increased population lead to the poor suffering	ACC
5	"I didn't install her there so that I could make love to her"	Gerald's comment about his relationship with Daisy/Eva	 AIC
6	"Go and look for the father of the child. It's his responsibility"	Mrs Birling's comment about who the inspector should speak to	 AIC
7	"alone, friendless, almost penniless, desperate"	The inspector's description of Eva/ Daisy's situation	 AIC
8	"that state when a chap easily turns nasty - and I threatened to make a row"	Eric's confession around the night he met Eva	 AIC
9	"I liked her – she was pretty and a good sport"	Eric's view of Eva and her personality	 AIC
10	"used her [...] as if she was an animal, a thing, not a person"	The inspector's comments on how Eric treated Eva	 AIC







Week 5 30/09/25	Piece of Information	Answer	Text
1	patriarchal	A society in which power and status is given to men	AIC
2	misogyny	Prejudice towards women as a group	AIC
3	noble	Having high moral principles or morality ( <i>honourable</i> )	MAC
4	inferior	lower in rank, status or quality ( <i>subordinate</i> )	MAC
5	tyrannical	exercising power in a cruel way ( <i>dictatorial</i> )	MAC
6	ruthless	showing no pity or compassion for others ( <i>merciless</i> )	MAC
7	"There are millions and millions and millions of Eva Smiths"	The inspector's view of how many people live like Eva 	AIC
8	"We are members of one body. We are responsible for each other"	The inspector's view on how society should behave 	AIC
9	"They will be taught it in fire and blood and anguish"	The inspector's view about what will happen in the future 	AIC
10	"pleased with themselves" "leaving them staring, subdued and wondering"	Stage directions to signify the family's changing behaviour 	AIC







Week 6 07/10/25	Piece of Information	Answer	Text
1	'Bayonet Charge'	A single soldier goes over the top and questions his purpose	P&C
2	patriotic	Love and loyalty for your country ( <i>nationalist</i> )	P&C
3	"sweating like molten iron"	A simile from the first stanza highlighting the intensity of war 	P&C
4	"King, honour, human dignity, etcetera/ Dropped like luxuries"	A simile illustrating how his list of reasons to fight are pointless 	P&C
5	"terror's touchy dynamite"	Chremamorphism in the final line - the soldier is an object 	P&C
6	manipulative	exercising control or influence over someone or something ( <i>cunning</i> )	MAC
7	ambitious	having a strong desire to succeed or achieve something ( <i>determined</i> )	MAC
8	duplicitous	being guilty of misleading others and being dishonest ( <i>deceitful</i> )	MAC
9	emasculating	to weaken a man by questioning his male role or identity ( <i>weaken</i> )	MAC
10	fragile	when a person is seen as delicate or vulnerable ( <i>frail</i> )	MAC






Week 7 14/10/25	Piece of Information	Answer	Text
1	sceptical	not easily convinced or uncertain about something ( <i>doubtful</i> )	MAC
2	equivocate	using vague language to conceal the truth ( <i>ambiguity</i> )	MAC
3	inexplicable	unable to be explained or accounted for ( <i>incomprehensible</i> )	MAC
4	malevolent	having or showing a wish to do evil to others ( <i>spiteful</i> )	MAC
5	paradoxical	something with two meanings that don't make sense together	MAC
6	'War Photographer'	A photographer returns home and struggles to process his memories	P&C
7	impassively	giving no sign of feeling or emotion ( <i>expressionless</i> )	P&C
8	"spools of suffering set out in ordered rows"	A juxtaposing phrase in stanza one indicating a lack of control 	P&C
9	"Home again/ to ordinary pain"	An oxymoron to show how war leads to everyone suffering 	P&C
10	"blood stained into foreign dust"	A metaphor which highlights the permanent impact of war 	P&C







Week 8 21/10/25	Piece of Information	Answer	Text
1	'Remains'	A soldier returns home and is haunted by the memory of killing a looter	P&C
2	psychological	related to the mental and emotional state of a person	P&C
3	"sleep, and he's probably armed, possibly not"	The repetition of a phrase which indicates uncertainty in 'Remains' 	P&C
4	"dug in behind enemy lines"	A metaphor which shows the permanent impact of war in 'Remains' 	P&C
5	"his bloody line in my bloody hands"	A metaphor showing the speaker's guilt in the final line of 'Remains' 	P&C
6	'The Prelude'	A child rows across the lake and gets scared of nature's power	P&C
7	duality	the quality of having two opposing sides or elements	P&C
8	"One summer evening (led by her)"	The opening personification of nature from 'The Prelude' 	P&C
9	"an act of stealth and troubled pleasure"	An oxymoron to describe the speaker's mixed emotions in 'The Prelude' 	P&C
10	"a huge peak, black and huge [...] upreared its head"	The repetition of simple vocabulary to communicate the speaker's fear at the size of nature in 'The Prelude' 	P&C

Week 9 04/11/25	Piece of Information	Answer	Text
1	'Storm on the Island'	A community prepares for a storm then realise nature's power	P&C
2	volatile	likely to change rapidly and unpredictably	P&C
3	"We are prepared"	The opening line of 'Storm on the Island' including a plural pronoun 	P&C
4	"spits like a tame cat turned savage"	The simile with juxtaposition which highlights the quick change in nature from something comforting to something violent 	P&C
5	"It is a huge nothing that we fear"	The closing line from 'Storm on the Island' which uses an oxymoron to highlight the strange fear humans have towards nature's power 	P&C
6	'Ozymandias'	A traveller saw a broken statue of a once powerful leader.	P&C
7	hubristic	extremely proud or self-confident	P&C
8	"King of kings, look on my works"	The speaker in 'Ozymandias' uses repetition to exaggerate the power he believes he has as a leader 	P&C
9	"shattered" "decay" "colossal wreck"	A semantic field of destruction used across 'Ozymandias' to describe nature and time's impact on the statue and the power it held 	P&C
10	"The lone and level sands stretch far away"	The final line of 'Ozymandias' which symbolises how human power cannot outlast the ongoing power of nature 	P&C

Week 10 11/11/25	Piece of Information	Answer	Text
1	'My Last Duchess'	A duke shows a visitor the painting of his dead wife, who he killed	P&C
2	egotistical	self-centred and absorbed in oneself	P&C
3	"(since none puts by/ The curtain I have drawn for you, but I)"	The duke interrupts himself in 'My Last Duchess' in order to emphasise his power with the repetition of first person pronouns	 P&C
4	"My gift of a nine-hundred-year-old name"	A metaphor used by the duke to indicate the power and status he offered to the Duchess through his family name	 P&C
5	"Notice Neptune, though, taming a seahorse"	The final line of 'My Last Duchess' where the Duke's artwork symbolises how he sees himself and women	 P&C
6	'London'	A man wanders and hears the suffering of London's people	P&C
7	corrupt	acting dishonestly for personal gain	P&C
8	"mind-forged manacles I hear"	A metaphor to represent the trapped state of the people in 'London'	 P&C
9	"every black'ning church appalls"	A metaphor in 'London' which reveals the corruption of religion and the establishment	 P&C
10	"And blights with plagues the marriage hearse"	A metaphor in 'London' from the final line which highlights how infected all stages of life are in the city	 P&C

Week 11 18/11/25	Piece of Information	Answer	Text
1	'Exposure'	A group of soldiers suffer through the cold weather conditions.	P&C
2	futility	Something that appears to have no purpose ( <i>pointlessness</i> )	P&C
3	"merciless iced east winds that knife us"	Personification used to describe nature in the opening line	 P&C
4	"slowly our ghosts drag home"	A metaphor during the poem to show the soldiers' loss of life	 P&C
5	"but nothing happens"	A refrain, and the final line, used to indicate boredom in war	 P&C
6	Checking Out Me History	A speaker conveys his anger about the eurocentric history he is taught	P&C
7	resentment	anger or bitterness at being forced to accept something	P&C
8	"Dem tell me what dem want to tell me"	The repeated opening line of 'Checking Out Me History'	 P&C
9	"Bandage up me eye [...] blind me to me own identity"	The metaphor of restriction used in 'Checking Out Me History'	 P&C
10	"I carving out me identity"	The final line from 'Checking Out Me History' with a metaphor emphasising the speaker's own self discovery	 P&C

Week 12 25/11/25	Piece of Information	Answer	Text
1	Kamikaze	A pilot turns back from his mission and is disowned by his community	P&C
2	ostracised	being excluded from a society or group	P&C
3	"a shaven head full of powerful incantations"	The opening metaphor about the pilot's mind in 'Kamikaze'	 P&C
4	"gradually we too learned to be silent"	The line in the following stanza about how the children also begin to disown their father in 'Kamikaze'	 P&C
5	"wondered which had been the better way to die"	The closing line questioning the nature of death in 'Kamikaze'	 P&C
6	The Emigree	A woman positively remembers her homeland which is now in conflict	P&C
7	idealised		P&C
8	"bright, filled paperweight"	A metaphor that presents the speaker's memory in 'The Emigree'	P&C
9	"I am branded by an impression of sunlight"	A metaphor which adds to the semantic field of light in 'The Emigree'	 P&C
10	"My city hides behind me"	Personification in 'The Emigree' which highlights her patriotic sacrifice	 P&C

Week 13 02/12/25	Piece of Information	Answer	Text
1	Poppies	A mother comes to terms with the loss of her son at war	P&C
2	wistful	a feeling of regretful longing	P&C
3	"released a songbird from its cage"	A metaphor from 'Poppies' about the acceptance of loss and grief	 P&C
4	"leaned against it like a wishbone"	A simile which emphasises the mother's fragility in 'Poppies'	 P&C
5	"hoping to hear your playground voice"	The closing line from 'Poppies' where the mother wishes for her son to be alive and young again	 P&C
6	Tissue	We give power to paper which is ultimately fragile - like humans	P&C
7	temporary	lasting for a limited time; not permanent	P&C
8	"Let the daylight break through"	An imperative phrase to emphasise nature's strength in 'Tissue'	 P&C
9	"might fly our lives like paper kites"	A simile which emphasises the temporary nature of life in 'Tissue'	 P&C
10	"pages smoothed and stroked and turned / transparent with attention"	A list of 3 with polysyndeton which emphasises our fixation with the records of human lives from 'Tissue'	 P&C

# Character Education

## Our vision

Character Education will help you to develop your confidence, compassion, and enable you to contribute effectively to society, be a successful learner and a responsible citizen. By focusing on these character challenges you will also develop self esteem and a better understanding and respect for others, as well as an awareness of wider spiritual and cultural issues. The challenges and experiences listed below will ensure you are able to climb your own personal mountain to the very best universities and professions.

## How to earn and record your badges

- For each badge you complete you will need to have them signed off by a member of staff.
- Remember for some of your badges you will need to provide evidence.
- Miss Exton and Miss Blick will then present you with your badge on completion.
- You will update your main Character booklet each week in tutor time.
- You will need to achieve each badge before being awarded the next, for example; you cannot achieve gold if you have not completed the bronze or silver in that badge category.

## Ambition - Excellence - Pride

Ambition				
Badge	Badge Level	You must...	Achieved?	Staff Signature
<p style="text-align: center;">Culture</p> <p><i>This is a demonstration of ambition because you are working outside of your comfort zone.</i></p>	Bronze	Perform your creative talent at school.		
	Silver	Take part in three different events within the following: school drama performance, dance performance, art exhibition, orchestra/ band or a sporting tournament.		
	Gold	Take part in ten or more different events listed above.		
<p style="text-align: center;">Academia</p> <p><i>This is a demonstration of ambition because you are exploring opportunities available to you after Gloucester Academy.</i></p>	Bronze	Attend 3 external Higher Academic Events (careers lectures/college/sixth form/university visit).		
	Silver	Visit a Russell Group University.		
	Gold	Successfully secure an offer at a sixth form or college to complete A-Levels / Apprenticeship.		
<p style="text-align: center;">Futures</p> <p><i>This is a demonstration of ambition because you are climbing your own personal mountain to the very best universities and professions.</i></p>	Bronze	Take part in a one-to-one interview with a career's advisor.		
	Silver	To produce a high-quality CV checked by SLT/Careers adviser.		
	Gold	To secure a professional work experience placement.		
<p style="text-align: center;">Literacy</p> <p><i>This is a demonstration of ambition because you are expanding your vocabulary.</i></p>	Bronze	To read 25 books and complete book reviews.		
	Silver	To read 50 books and complete book reviews.		
	Gold	To read 150 books and complete book reviews.		

# Ambition - Excellence - Pride

Excellence				
Badge	Badge Level	You must...	Achieved?	Staff Signature
<b>Sport</b> <i>This is a demonstration of excellence because you are representing your school.</i>	Bronze	Play in 10 competitive sports matches or competitions for the school team.		
	Silver	Play in 25 competitive sports matches or competitions for the school team.		
	Gold	Play in a competitive sports match or competition regionally or nationally.		
<b>Community</b> <i>This is a demonstration of excellence because you are helping others.</i>	Bronze	Be an active member of an in-school community for one unit; GA prep, an enrichment activity or homework support.		
	Silver	Write and propose a new community project to key stakeholders.		
	Gold	Organise and deliver a community project event.		
<b>Leadership</b> <i>This is a demonstration of excellence because you are being a role model to others.</i>	Bronze	Be on the student leadership team (sports captain, Character representative, mentor or ambassador).		
	Silver	Have impacted change or improvement as a leader (provide evidence of what you have achieved).		
	Gold	Create and lead your own leadership event.		
<b>Adventure</b> <i>This is a demonstration of excellence because you have challenged yourself.</i>	Bronze	Complete a school residential / Outdoor Adventure Activity.		
	Silver	Complete the Duke of Edinburgh BRONZE Award.		
	Gold	Complete the Duke of Edinburgh SILVER Award or Ten Tors challenge.		

## Ambition - Excellence - Pride

<h1>Pride</h1>				
Badge	Badge Level	You must...	Achieved?	Staff Signature
Charity <i>This is a demonstration of pride because you have helped others.</i>	Bronze	Volunteer 10 hours to the local community or charity.		
	Silver	Organise a charity event and raise more than £100.		
	Gold	Organise a charity event and raise more than £500.		
Commitment <i>This is a demonstration of pride because you have dedicated time and effort to something you enjoy.</i>	Bronze	Visit one of the following; art gallery, theatre, museum, concert, ballet, or similar. Or have 100% attendance at an enrichment activity for a unit.		
	Silver	Visit two different places from the above list. Or have 100% attendance at two different enrichment activities for two units.		
	Gold	Visit five of the following; art gallery, theatre, museum, concert, ballet, or similar. Or have 100% attendance at three different enrichment activities for three units.		
Environment <i>This is a demonstration of pride because you are making the world more eco friendly.</i>	Bronze	Take part in an event which improves your school environment.		
	Silver	Organise an event which improves your local environment.		
	Gold	Contribute to a national event, or movement which aims to improve the environment.		
Diversity <i>This is a demonstration of pride because you have celebrated all things that make us unique.</i>	Bronze	Take part in one event; assembly or festival which celebrates diversity (race, religion, LGBTQI+).		
	Silver	Take part in two events that celebrate two different types of diversity.		
	Gold	Organise an event, festival or assembly which celebrates diversity.		