

	Term	Topic	Learning Outcomes	Assessment
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	Term	Unit 1: Arithmetic	Operations	Topic review at the end of each unit. Units 1-9 assessed in the Autumn Term. Content from Y7-9 could also be assessed.
CSE Foundation	Y10 Autumn 1	Unit 2: Shape	 Use correct terms and notations for shape properties. Identify congruent shapes. Recall 2D shape names and their properties. Identify line and rotational symmetry of 2D shapes. 3D Shapes Recall 2D shape names and their properties. Identify and sketch nets of 3D shapes. Identify planes of symmetry of 3D shapes. Understand and draw plans and elevations. Sketch 3D shape based on their plans and elevations. Circles Use a compass to draw circles and arcs accurately. 	
)9		Unit 3: Decimal Arithmetic	Operations Order decimals Add, subtract, multiply & divide decimals	
		Unit 4: Angle	 Draw & Measure Measure and draw acute, obtuse and reflex angles accurately. Draw and measure a bearing. Angle Rules Calculating missing angles in a right angle, straight line, around a point, intersecting lines, triangles, quadrilaterals and parallel lines. Calculate the interior and exterior angles of polygons. 	



Ter	m Topic	Learning Outcomes	Assessment
Y10 Autumn 1		 Equivalent Fractions Calculate equivalent fractions. Simplify a fraction to its simplest form. Change between mixed numbers and improper fractions. Compare two fractions. Order 3 or more fractions. Arithmetic Add, subtract, multiply and divide proper fractions and mixed numbers. Calculate a fraction of an amount. Use cross cancelling to simplify calculations. Find the reciprocal of a number. 	



Term	Topic	Learning Outcomes	Assessment
	Unit 6:	Algebraic Manipulation	
	Expressions 1	 Substitute into expressions and formulae. 	
		 Simplify expressions by collecting like terms. 	
		Understand the difference between	
		expressions, equations, formulae, inequalities and identities.	
		 Form algebraic expressions and formulae. 	
		o Form digestate expressions and formulae.	
	Unit 7:	Percentage Changes	
	Percentages 1	 Calculate a percentage of an amount. 	
		 Increase and decrease by a percentage. 	
		Calculate a percentage of an amount using a	
		multiplier. o Increase and decrease by a percentage using a	
		multiplier.	
		Express as a percentage.	
		 Find a percentage change. 	
	Unit 8:		
CI	Linear Graphs 1	Draw & Interpret Linear Graphs Finding rules for basis straight line graphs	
' '	Linear Graphs 1	 Finding rules for basic straight-line graphs Drawing linear graphs from an xy table 	
		 Drawing linear graphs from an xy table Identify the gradient and y-intercept from the 	
<u></u>		form y = mx + c	
コ		,	
Y10 Autumn 2			
7	Unit 9:	Ratio	
_	Ratio &	 Solving problems using equivalent ratios. 	
\bigcirc	Proportion 1	 Simplify a ratio (including into the form 1:n or n:1). 	
\subseteq		 Identify and work with fractions in ratio 	
		problems.	
		 Use equivalence to combine ratios. 	
		 Share a quantity in a ratio. 	
		• Proportion	
		 Solve problems involving direct proportion 	
		including graphical and algebraic representations.	
		 Compare different products using unit rates to 	
		determine the best buy.	
		 Solve problems involving inverse proportion 	
		including graphical and algebraic	
		representations.	

Autumn Term Assessment



Term	Topic	Learning Outcomes	Assessment
	Unit 10:	Form and Solve Equations	Topic review at
	Equations 1	 Solve two step equations by balancing. 	the end of each
		 Solve equations with positive and negative 	unit.
		unknowns on both sides.Form and solve equations using angles rules.	
		 Form and solve equations using angles rules. 	Units 1-14
			assessed in the
	Unit 11:		Spring Term.
	FDP	Equivalent Fractions, Decimals and Percentages	Content from
	FDF	 Convert between fractions, decimals and 	Y7-9 could also
		percentages Recall key equivalent FDP for $\frac{1}{2} + \frac{1}{4} = \frac{1}{5}$	be assessed.
\leftarrow		 Compare and order fractions, decimals and 	
, h0		percentages	
<u> </u>			
Y10 Spring 1			
d	Unit 12:	Algebraic Manipulation	
S	Expressions 2	 Use the indices rules to multiply and divide terms. 	
0		 Expand single brackets and simplify. 	
7		 Factorise into single brackets. 	
>		 Expand double brackets. 	
	Unit 13:	• Rounding	
	Estimation	 Round to the nearest 10, 100, 1000, integer, 	
		decimal place, significant figure.	
		 Estimation Estimate calculations by rounding to 1 s.f. 	
		• Calculator Use	
		 Demonstrate calculator proficiency. 	
	Unit 14:	• Conversions	
	Measures	Convert between standard metric units of	
	incusures	length, mass, capacity, time and money.	
		 Using map scales to convert lengths. 	
7	Unit 15:		
bn	Area 1	Area & Perimeter Formulae	
<u> </u>		 Calculate the area and perimeter of rectangles, 	
. <u> </u>		triangles, parallelograms & trapeziums O Calculate the area and perimeter of compound	
Q		 Calculate the area and perimeter of compound shapes made of rectangles, triangles, 	
S		parallelograms & trapeziums	
0		 Form and solve equations involving the area 	
Y10 Spring 2		and perimeter of shapes	
		 Calculate the circumference of a circle and the perimeter of 1/2 1/4 3/4 circles 	
		 Calculate the area of a circle and of 1/2 1/4 3/4 	
		circles	



Term	Topic	Learning Outcomes	Assessment
	Unit 16:	Generate & Continue Sequences	
	Sequences	 Generate terms of a sequence from a term-to-term, position-to-term and nth term rule. Recognise and continue sequences that are arithmetic (linear), geometric, triangular, square (quadratic), cube and Fibonacci. Rules for Linear Sequences Find the nth term rule of a linear sequence Use inverses to check whether a value is a term in a sequence. Create rules for sequences written in an xy table. Complete an xy table using a linear rule. Generate a sequence and rule from a diagram. 	
Y10 Spring 2	Unit 17: Statistics 1	Types of Data Know and understand the terms: primary data, secondary data, qualitative data, quantitative data, discrete data, continuous data, samples, population, bias. Discuss random sampling and questionnaires. Critique the pros and cons of sampling and questionnaires. Tally data into a frequency table. Interpret frequency tables. Draw and interpret a pictogram, bar line graph, bar chart, frequency polygon, time-series graph and pie charts. Plot data on a scatter graph, state the correlation and trend. Draw a line of best fit to make estimates from a scatter graph and identify outliers. Averages & Range Calculate the mode, median, mean and range from frequency tables.	

Spring Term Assessment



Term	Topic	Learning Outcomes	Assessment
	Unit 18:	Plans & Elevations	Topic review at
	3D 1	 Draw plans & elevations of solids. 	the end of each
		 Draw a solid from given plans & elevations. 	unit.
		Surface Area	
		 Calculate the surface area of cubes and 	Units 1-20
		cuboids.	assessed in the
		 Calculate missing lengths when given a surface area. 	Y10 Mocks.
		• Volume	
		 Calculate the volume of cubes, cuboids and 	Content from
		prisms.	Y7-9 could also
		 Calculate missing lengths when given the 	be assessed.
		volume of a prism.	
	Unit 19:	Calculating Probability	
	Probability 1	 Mark a probability on a number line 	
	Obdanity 1	Calculate expected outcomes	
		List outcomes of combined events including	
		using a two-way table and a frequency tree. Calculate the probability from a list, a two-way	
		table and a frequency tree.	
\vdash		 Calculate a probability from a sample space 	
` '		diagram.	
<u></u>		 Calculate the relative frequency of an event. 	
10 Summer			
()	Unit 20	Drawing & Describing Transformations	
0	Transformations	 Reflect, rotate, translate and enlarge shapes 	
7		on a co-ordinate grid.	
		 Describe a reflection, rotation, translation and 	
		enlargement.	
		 Draw a shape after a combined transformation then describe it as a single transformation. 	
		then describe it as a single transformation.	
	Unit 21:		
	Compound	Calculating with Compound Measures Calculate a speed distance and time including.	
	Measures	 Calculate a speed, distance and time including fractions of an hour. 	
		 Calculate a density, mass and volume. 	
		 Calculate a pressure, mass and area. 	
		 Use appropriate units for measures. 	



Term	Topic	Learning Outcomes	Assessment
	Unit 22:	Draw & Interpret Real Life Graphs	
	Real Life Graphs	 Understand and use conversion graphs. 	
		 Compare flow graphs with their containers. 	
		 Find approximate solutions by reading from 	
		real-life graphs.	
		Interpret information from real-life graphs to	
		compare and evaluate different financial	
		options.Calculate and compare wages from hourly	
		 Calculate and compare wages from hourly rates and hours worked from real-life graphs. 	
		o Interpret the gradient and y-intercept of any	
		real-life graph.	
		Distance-Time Graphs	
		 Interpret distance-time graphs by calculating 	
		speeds, distances and time.	
		 Understand that the gradient represents the 	
		speed.	
		 Draw distance-time graphs. 	
		Speed-Time Graphs Interpret graph disease graphs	
		Interpret speed-time graphs.Understand that the gradient represents the	
7		 Understand that the gradient represents the acceleration. 	
_		adderer at to the	
Y10 Summer 2			
_	Unit 23:	Applying the Theorem	
\equiv	Pythagoras'	 Calculate the hypotenuse and shorter sides in 	
\subseteq	Theorem	right angled triangles using Pythagoras'	
\supset		Theorem.	
0)		Solve problems involving distances, heights,	
0		and measurements by applying in real-life and problem-solving contexts.	
7		Calculate the length of a line segment, the	
_		midpoint of a line segment and an endpoint of	
		a line segment when the midpoint and the	
		other endpoint are known.	
	Unit 24:	Averages & Range	
	Statistics 2	 Compare two or more sets of data using 	
		averages and range.	
		Calculate a missing value in a dataset when the	
		mean, median, mode, or range is given. Calculate averages and range from frequency	
		 Calculate averages and range from frequency tables. 	
		 Draw appropriate diagrams to display data 	
		from frequency tables.	
	Unit 25:	Arithmetic with Standard Form	
	Standard Form	Convert between standard form and ordinary	
		numbers.	
		Order, add, subtract, multiply & divide pumbers in standard form with four a	
		numbers in standard form with/out a calculator.	
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Y10 Mock Exam



	Term	Topic	Learning Outcomes	Assessment
		Unit 26: Area 2	 Applying Area & Perimeter Formulae Calculate missing lengths in rectangles, triangles, parallelograms, trapeziums & circles when the area or perimeter is given. Calculate the length of an arc and the perimeter of a sector. Calculate the area of a sector. 	Topic review at the end of each unit. All units assessed in the Y11 Autumn Mocks.
		Unit 27: Percentages 2	 Applying Multipliers Calculate simple and compound interest. Interpret and solve growth and decay problems. Calculate a reverse percentage. 	
her	mn 1	Unit 28: Expressions 3	 Algebraic Manipulation Expand and simplify multiple single brackets. Factorise into single brackets. Expand double brackets. Factorise into double brackets including the difference of two squares. 	
GCSE Higher	Y11 Autumn 1	Unit 29: Linear Graphs 2	 Equations of Lines State the equation of a line given the gradient and one co-ordinate it passes through. Identify parallel lines using the form y = mx + c. State the equation of a line parallel to a given one through a specified coordinate. State the equation of a line through two coordinates. Simultaneous Equations 	
			 Solve linear simultaneous equations graphically. 	



Term	Topic	Learning Outcomes	Assessment
	Unit 30: 3D 2	 Surface Area & Volume Formulae Calculate the surface area and volume of prisms & cylinders. Apply the surface area and volume formulae for pyramids, cones and spheres. 	
Y11 Autumn 2	Unit 31: Equations 2 & Inequalities	 Solving Linear Equations Solve linear equations with negative unknowns and brackets on both sides. Solving Inequalities Represent inequalities on a number line. Write inequalities that have been represented on a number line. Solve linear inequalities and represent their solution on a number line. Solving Simultaneous Equations Solve simultaneous equations algebraically with positive terms. Solve simultaneous equations algebraically with negative terms. Form and solve simultaneous equations algebraically. Solving Quadratic Equations Solve quadratics equations by factorising into double brackets. Proportion and Equations Complete a table of values in direct or inverse proportion. Interpret graphs of direct or inverse proportion. Understand and use a multiplier to express parts of a ratio algebraically to form linear equations to solve contextual problems. 	
	Unit 33: Probability 2	 Independent and Dependent Events Explain the difference between AND (both events happen) and OR (at least one event happens). Apply the AND and OR rules to real-life problems (e.g. dice, cards, spinners). Complete and use tree diagrams to calculate the probability for independent and dependent events using the AND and OR rules. Venn Diagrams and Set Notation Complete and interpret venn diagrams to calculate a probability. Understand the notation P(A), P(A'), P(A∩B), P(A∪B) and calculate these from a venn diagram. 	

Y11 Autumn Mock Exam



Term	Topic	Learning Outcomes	Assessment
	Unit 34:	Quadratic Graphs	Topic review at
	Other Graphs	 Draw quadratic graphs from an xy table. 	the end of each
		 Identify the roots, y-intercept and turning 	unit.
		point of a quadratic graph.	
		 Sketch quadratic graphs and show their roots and y-intercept. 	All units
		 Solve quadratic equations graphically. 	assessed in the
		Other Graphs	Y11 Spring
		 Draw cubic and reciprocal graphs from an xy 	Mocks.
		table.	
		 Sketch the features of cubic and reciprocal 	
		graphs.	
	Unit 35:	SOH CAH TOA	
	Trigonometry	 Apply the Pythagoras' theorem and 	
	,	trigonometric ratios to calculate a missing side	
		length or angle. O Understand and recall the exact values for sin,	
		 Understand and recall the exact values for sin, cos and tan for 0, 30, 45, 60 and 90 degrees. 	
		200 200 200 200 200 200 200 200 200 200	
	Unit 36:	Scale Drawings	
	Constructions &	o Interpret scales written as a ratio (e.g. 1:50) or	
D0	Loci	as a statement (e.g. 1 cm represents 5 m).	
٣		 Calculate scale drawing/map distances, lengths, or heights using a given scale. 	
:		 Write a scale in the simplified ratio form 1:n 	
d		 Create scale drawings of a floor plan/model 	
S		using scales written as a ratio (e.g. 1:50) or as	
Y11 Spring 1		a statement (e.g. 1 cm represents 5 m).	
		 Bearings Draw and measure bearings and journeys 	
—		accurately.	
		 Fix a position using bearings. 	
		Constructions & Loci	
		 Construct a perpendicular bisector of a line 	
		segment. O Construct a perpendicular of a line segment	
		from a point, a perpendicular of a line segment	
		from a point on the line, an angle bisector.	
		 Construct a 60° angle (SSS triangle) and 90° 	
		angle (perpendicular).	
		 Use angle bisectors to construct 30° and 45° angles 	
		 Draw loci for points at a fixed distance from 	
		another point, line or angle.	
		 Use angle bisectors and perpendicular 	
		bisectors in loci problems.	
		Vector Arithmetic	
	Unit 37:	Represent a vector using an arrow or in	
	Vectors	column form.	
		 Add and subtract vectors in column form. 	
		 Multiply a vector by a scalar. 	

Y11 Spring Mock Exam



Term	Topic	Learning Outcomes	Assessment	
Y11 Spring 2 & Summer 1	Revision	Revision tasks preparing for the GCSE Exams.	Weekly past papers and revision tasks.	
GCSE Exam Dates Edexcel GCSE Maths Paper 1 (Non-Calculator) - 14th May 2026 Edexcel GCSE Maths Paper 2 (Calculator) - 3rd June 2026 Edexcel GCSE Maths Paper 3 (Calculator) - 10th June 2026				