TERM	UNIT / LESSON	OBJECTIVES	TERM	UNIT / LESSON	OBJECTIVES	TERM	UNIT / LESSON	OBJECTIVES
AUTUMN	1 Number		SPRING	6 Angles		SUMMER	11 Ratio and proportion	
	1.1 Calculations	Use priority of operations with positive and negative numbers.		6.1 Properties of shapes	Solve geometric problems using side and angle properties of quadrilaterals.		11.1 Writing ratios	Use ratio notation.
		Simplify calculations by cancelling.			Identify congruent shapes.			Write a ratio in its simplest form.
	1.2 Decimal numbers	Bound to a given number of decimal place		6.2 Angles in parallel lines	Understand and use the angle properties of parallel lines		11.2 Using ratios 1	Solve simple problems using ratios
	1.2 Decimientaribers	Multiply and divide decimal numbers		of 2 migres in parallel lines	Find missing angles using corresponding and alternate angles		11.3 Batios and measures	Use ratios to convert between units
	1.3 Place value	Write decimal numbers of millions.		6.3 Angles in triangles	Solve angle problems in triangles		This hadds and mediates	Write and use ratios for shapes and their enlargements.
		Round to a given number of significant figures.		of a migree in changies	Understand angle proofs about triangles.			white and use ratios for shapes and their emargements.
		Estimate answers to calculations					11.4 Using ratios 2	Divide a quantity into 2 parts in a given ratio.
		Use one calculation to find the answer to another.		6.4 Exterior and interior angles	Calculate the interior and exterior angles of regular polygons.		11.4 Obing ratios 2	Divide a quantity into 3 parts in a given ratio.
	1.4 Factors and multiples	Recognise 2-digit prime numbers.						Solve word problems using ratios.
		Find factors and multiples of numbers.		6.5 More exterior and interior angles	Calculate the interior and exterior angles of polygons.		11.5 Comparing using ratios	Use ratios involving decimals.
		Find common factors and common multiples of two numbers.		6.6.Commetrical patterns	Explain why some polygons fit together and some others do not		-	Compare ratios.
	1 E Squares subes and roots	Find the HCF and LCM of two humbers by listing.		6.6 Geometrical patterns	Solve angle problems using equations.		11.6 Using proposition	Solve ratio and proportion problems.
	1.5 Squares, cubes and roots	Percentice powers of 2, 2, 4 and 5	SPRING	7 Averages and range	Solve geometrical problems showing reasoning.			Solve proportion problems in words
		Inderstand surd notation on a calculator	JFRING	7 1 Mean and range	Calculate the mean from a list and from a frequency table			Work out which product is better value for money
	1.6 Index notation	Find square roots and sub-roots		7.1 Wear and range	Compare sets of data using the mean and range		11.7 Proportion and graphs	Pecognice and use direct proportion on a graph
		Percentrice powers of 2, 2, 4 and 5		7.2 Mode, median and range	Eind the model median and range from a stem and leaf diagram		11.7 Proportion and graphs	Understand the link between the unit ratio and the gradient
		Necognise powers of 2, 5, 4 and 5.		7.2 Wode, median and range	Identify outliers			onderstand the link between the unit ratio and the gradient.
	1.7 Prime factors	Write a number as the product of its prime factors			Estimate the range from a grouped frequency table		11.8 Proportion problems	Percentice different types of proportion
	1.7 Finite factors	Use arime factor decomposition and Venn diagrams to find the UCC			Estimate the range if on a grouped nequency table.		11.8 Proportion problems	Solve word problems involving direct and inverse preparties
		and LCM.						solve word problems involving direct and inverse proportion.
AUTUMN	2 Algebra			7.3 Types of average	Recognise the advantages and disadvantages of each type of average.	SUMMER	12 Right-angled triangles	
	2.1 Algebraic expressions	Use correct algebraic notation.			Find the modal class.			
		Write and simplify expressions.			Find the median from a frequency table.		12.1 Pythagoras' theorem 1	Understand Pythagoras' theorem.
	2.2 Simplifying expressions	Use the index laws.		7.4 Estimating the mean	Estimate the mean of grouped data.			Calculate the length of the hypotenuse in a right-angled triangle.
		Multiply and divide expressions.		7.5 Sampling	Understand the need for sampling.			Solve problems using Pythagoras' theorem.
					Understand how to avoid bias.		12.2 Pythagoras' theorem 2	Calculate the length of a line segment AB.
	2.3 Substitution	Substitute numbers into expressions.	SPRING	8 Perimeter, area and volume 1				Calculate the length of a shorter side in a right-angled triangle.
				8.1 Rectangles, parallelograms and triangles	Calculate the perimeter and area of rectangles, parallelograms and triangles.			
					Estimate lengths, areas and costs.		12.3 Trigonometry: the sine ratio 1	Understand and recall the sine ratio in right-angled triangles.
	2.4 Formulae	Recognise the difference between a formula and an expression.			Calculate a missing length, given the area.			Use the sine ratio to calculate the length of a side in a right-angled triangle.
		Substitute numbers into a simple formula.		8.2 Trapezia and changing units	Calculate the area and perimeter of trapezia.			Use the sine ratio to solve problems.
					Find the height of a trapezium given its area.		12.4 Trigonometry: the sine ratio 2	Use the sine ratio to calculate an angle in a right-angled triangle.
					Convert between area measures.			Use the sine ratio to solve problems.
	2.5 Expanding brackets	Expand brackets.		8.3 Area of compound shapes	Calculate the perimeter and area of shapes made from triangles and rectangles.			
		Simplify expressions with brackets			Calculate areas in bestares, and convert between ha and m?		12.5 Trigonometry: the cosine ratio	Understand and recall the cosine ratio in right-angled triangles
		Substitute numbers into expressions with brackets and nowers			caculate areas in nectares, and convert between ha and mz.		12.5 Highlighter y. the coshe ratio	Use the cosine ratio to calculate the length of a side in a right-angled triangle.
		Substitute numbers into expressions with brackets and powers.						ose the cosine ratio to calculate the length of a side in a right-angled thangle.
	2.6 Factorising	Recognise factors of algebraic terms.		8.4 Surface area of 3D solids	Calculate the surface area of a cuboid.			Use the cosine ratio to calculate an angle in a right-angled triangle.
		Factorise algebraic expressions.			Calculate the surface area of a prism.			Use the cosine ratio to solve problems.
		Use the identity symbol ≡ and the not equals symbol ≠					12.6 Trigonometry: the tangent ratio	Understand and recall the tangent ratio in right-angled triangles.
	2.7 Using expressions and formulae	Write expressions and simple formulae to solve problems.		8.5 Volume of prisms	Calculate the volume of a cuboid.			Use the tangent ratio to calculate the length of a side in a right-anglesd triangle
		Use maths and science formulae.			Calculate the volume of a prism.			Use the tangent ratio to calculate an angle in a right-angled triangle.
AUTUMN	3 Graphs, tables and charts			8.6 More volume and surface area	Solve problems involving surface area and volume.			Solve problems using an angle of elevation or depression.
	3.1 Frequency tables	Designing tables and data collection sheets.			Convert between measures of volume.		12.7 Finding lengths and angles using trigonometry	Understand and recall trigonometric ratios in right-angled triangles.
		Reading data from tables.	SPRING	9 Graphs				Use trigonometric ratios to solve problems.
				9.1 Coordinates	Find the midpoint of a line segment.			Know the exact values of the sine, cosine and tangent of some angles.
	3.2 Two-way tables	Use data from tables.			Recognise, name and plot straight-line graphs parallel to the axes.	SUMMER	13 Probability	
		Design and use two-way tables.		9.2 Linear graphs	Generate and plot coordinates from a rule.		13.1 Calculating probability	Calculate simple probabilities from equally likely events.
					Plot straight-line graphs from tables of values.			Understand mutually exclusive and exhaustive outcomes.
	3.3 Representing data	Draw and interpret comparative and composite bar charts.			Draw graphs to represent relationships.		13.2 Two events	Use two-way tables to record the outcomes from two events.
		Interpret and compare data shown in bar charts, line graphs and		9.3 Gradient	Find the gradient of a line.			Work out probabilities from sample space diagrams.
	2.4 Time and a	histograms.			Identificand intermediate modiling form on exception		42.2 Evenesis entril and a billty	Plant and taken as to share the bills to a base of an announcement of the
	5.4 Time series	Plot and interpret time series graphs.			Identity and interpret the gradient from an equation.		15.5 Experimental probability	Make predictions from experimental data
		Use trends to predict what might happen in the future.		0.4	Understand that parallel lines have the same gradient.		42 AVera diamana	Make predictions from experimental data.
	2 E Stom and loof diagrams	Construct and interpret stop and loaf and back to back stop and loaf		9.4 y = mx + c	Understand what m and c represent in y = mx + c.		13.4 Venn diagrams	Use venn diagrams to work out probabilities.
	3.5 Stem and lear diagrams	diagrams.			Find the equations of straight-line graphs.			Understand the language of sets and venn diagrams.
	3.6 Pie charts	Draw and interpret pie charts.			Sketch graphs given the values of m and c.		10.0.7	
				9.5 Real-life graphs	Draw and interpret graphs from real data.		13.5 Tree diagrams	Use frequency trees and tree diagrams.
								Work out probabilities using tree diagrams.
				9.6 Distance-time graphs	Use distance-time graphs to solve problems.			Understand independent events.
	3.7 Scatter graphs	Plot and interpret scatter graphs.			Draw distance-time graphs.			
		Determine whether or not there is a relationship between sets of			Interpret rate of change graphs.		13.6 More tree diagrams	Understand when events are not independent.
	3.8 Line of best fit	Draw a line of hest fit on a scatter granh		9.7 More real-life graphs	Draw and interpret a range of graphs			Solve probability problems involving events that are not independent
		Use the line of best fit to predict values		en more rear me Braphs	Understand when predictions are reliable	SUMMED	14 Multiplicative reasoning	provide and the second state of the second sta
AUTUMN	4 Fractions and percentages	ose one mile of best nit to predict values.			onderstand when predictions are reliable.	JOWIWIER	24 Multiplicative reasoning	
	4.1 Working with fractions	Compare fractions	SPRING	10 Transformations			14.1 Percentages	Calculate a percentage profit or loss.
		Add and subtract fractions	JENING	10.1 Translation	Translate a chane on a coordinate grid		14.1 Citerilages	Everage a given number as a nercentage of another in more complex situations
		nuu anu suoract IIdellUIIs.		10.1 marisiduun	Transiare a snape vil a CUUTUIIdre gru.			complex situations.

		Use fractions to solve problems.
	4.2 Operations with fractions	Eind a fraction of a quantity or measurement
	4.2 Operations with fractions	Use fractions to solve problems.
	4 3 44 details in a face at an a	Multiple coloring and free strand action of a continues
	4.3 Multiplying fractions	Multiply whole numbers, fractions and mixed numbers. Simplify calculations by cancelling.
	4.4 Dividing fractions	Divide a whole number by a fraction
	4.4 Dividing fractions	Divide a fraction by a whole number or a fraction.
	4.5 Fractions and decimals	Convert fractions to decimals and vice versa.
		Use decimals to find quantities. Write one number as a fraction of another.
	4.6 Fractions and percentages	Convert percentages to fractions and vice versa.
		Write one number as a percentage of another.
	4.7 Calculating percentages 1	Convert percentages to decimals and vice versa.
		Find a percentage of a quantity.
		Use percentages to solve problems.
	4.8 Calculating percentages 2	Calculate simple interest. Calculate percentage increases and decreases.
		Use percentages in real-life situations.
		Calculate VAT (value added tax).
AUTUMN	5 Equations, inequalities and sequences	
	5.1 Solving equations 1	Understand and use inverse equations.
		Rearrange simple linear equations.
		Solve simple linear equations.
	5.2 Solving equations 2	Solve two-step equations.
	5.3 Solving equations with brackets	Solve linear equations with brackets.
	5.4 Introducing inequalities	Solve equations with unknowns on both sides.
	15.4 Introducing mequalities	ose correct notation to show inclusive and exclusive inequalities.
		Solve simple linear inequalities. Write down whole numbers which satisfy an inequality
		Represent inequalities on a number line.
	5.5 More inequalities	Solve two-sided inequalities.
	5.6 More formulae	Substitute values into formulae and solve equations
	3.0 10012101110182	Change the subject of a formula.
		Know the difference between an expression, an equation, a formula
	5.7 Generating sequences	and an identity. Recognise and extend sequences.
	5.8 Using the nth term of a sequence	Use the nth term to generate terms of a sequence.
		Find the nth term of an arithmetic sequence.
END OF TERM	1 TEST	
TERM	UNIT / LESSON	OBJECTIVES
AUTUMN	16 Quadratic equations and graphs	
	16.1 Expanding double brackets	Multiply double brackets.
		Square single brackets.
	16.2 Plotting quadratic graphs	Plot graphs of quadratic functions.
		Recognise a quadratic function.
	16.3 Using quadratic graphs	Use quadratic graphs to solve problems. Solve quadratic equations $ax^2 + bx + c = 0$ using a graph
	10.5 Osing quadratic graphs	Solve quadratic equations as 2 + bx + c = 6 using a graph. Solve quadratic equations as 2 + bx + c = k
	16.4 Eastericing our death and a	Using a graph.
	10.4 Factorising quadratic expressions	
	16.5 Solving quadratic equations	
	aleebraicallv	
AUTUMN	17 Perimeter, area and volume 2	
	17.1 Circumference of a circle 1	Calculate the circumference of a circle

		Use a column vector to describe a translation.
	10.2 Reflection	Draw a reflection of a shape in a mirror line.
		Draw reflections on a coordinate grid.
		Describe reflections on a coordinate grid.
	10.3 Rotation	Rotate a shape on a coordinate grid.
		Describe a rotation.
	10.4 Enlargement	Enlarge a shape by a scale factor.
		Enlarge a shape using a centre of enlargement.
	10.5 Describing enlargements	Identify the scale factor of an enlargement.
		Find the centre of enlargement.
		Describe an enlargement.
	10.6 Combining transformations	Transform shapes using more than one transformation.
		Describe combined transformations of shapes on a grid.
F TERM :	2 TEST	

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		Find the original amount given the final amount after a percentage increase or
		decrease
	14.2 Growth and decay	Find an amount after repeated percentage change.
		Solve growth and decay problems.
	14.3 Compound measures	Solve problems involving compound measures.
	14.4 Distance, speed and time	Convert between metric speed measures.
		Calculate average speed, distance and time.
		Use formulae to calculate speed and acceleration.
	14.5 Direct and inverse proportion	Use ratio and proportion in measures and conversions.
		Use inverse proportions.
SUMMER	15 Constructions, loci and bearings	
	15.1 3D solids	Recognise 3D shapes and their properties.
		Describe 3D shapes using the correct mathematical words.
		Understand the 2D shapes that make up 3D objects.
	15.2 Plans and elevations	Identify and sketch planes of symmetry of 3D shapes.
		Understand and draw plans and elevations of 3D shapes.
		Sketch 3D shapes based on their plans and elevations.
	15.3 Accurate drawings 1	Make accurate drawings of triangles using a ruler, protractor and compasses.
		Identify SSS, ASA, SAS and RHS triangles as unique from a given description.
		Identify congruent triangles
	15.4 Scale drawings and maps	Draw diagrams to scale.
		Correctly interpret scales in real-life contexts.
		Use scales on maps and diagrams to work out lengths and distances.
		Know when to use exact measurements and estimations on scale drawings and maps.
		Draw lengths and distances correctly on given scale drawings.
	15.5 Accurate drawings 2	Accurately draw angles and 2D shapes using a ruler, protractor and compasses.
		Construct a polygon inside a circle.
		Recognise nets and make accurate drawings of nets of common 3D objects.
	15.6 Constructions	Draw accurately using rulers and compasses.
		Bisect angles and lines using rulers and compasses.
	15.7 Loci and regions	Draw loci for the path of points that follow a given rule.
		Identify regions bounded by loci to solve practical problems.
	15.8 Bearings	Find and use three-figure bearings.
		Use angles at parallel lines to work out bearings.
		Solve problems involving bearings and scale diagrams.
END OF TER	M 3 TEST	
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		Solve problems involving the circumference of a circle.
	17.2 Circumference of a circle 2	Calculate the circumference and radius of a circle.
		Work out percentage error intervals.
	47.2 Annu of a study	Manda and Alexandra and a study
	17.3 Area of a circle	work out the area or a circle.
		Work out the radius or diameter of a circle.
		Solve problems involving the area of a circle.
		Give answers in terms of π .
	17.4 Semicircles and sectors	Understand and use maths language for circles and perimeters.
		Work out areas of semicircles and quarter circle and perimeters.
		Solve problems involving sectors of circles.
	17.5 Composite 2D shapes and	Solve problems involving areas and perimeters of 2D shapes.
	cvinders	Work out the volume and surface area of cylinders
		Work out the volume and surface area of cymacis.
	47.6 Personal de la sed anno se	Manda and Alexandra and a susceptible
	17.6 Pyramids and cones	work out the volume of a pyramid.
		Work out the surface area of a pyramid.
		Work out the volume of a cone.
		Work out the surface area of a cone.
	17.7 Spheres and composite solids	Work out the volume of a sphere.
		Work out the surface area of a sphere.
		Work out the volume and surface area of composite solids.
AUTUMN	18 Fractions, indices and standard	
	form	
	18.1 Multiplying and dividing fractions	Multiply and divide mixed numbers and fractions.
	18.2 The laws of indices	To know and use the laws of indices.
	18.3 Writing large numbers in standard	Write large numbers in standard form.
	form	
		Convert large numbers from standard form into ordinary numbers.
	18.4 Writing small numbers in standard	Write small numbers in standard form.
	form	
-		Convert numbers from standard form with negative nowers of
		Convert numbers from standard form with negative powers of ordinary numbers
	18.5 Calculating with standard form	Convert numbers from standard form with negative powers of ordinary numbers To multiply and divide numbers in standard form.
	18.5 Calculating with standard form	Convert numbers from standard form with negative powers of ordinary numbers To multiply and divide numbers in standard form.
	18.5 Calculating with standard form	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors	Convert numbers from standard form with negative powers of ordinary numbers To multiply and divide numbers in standard form. To add and subtract numbers in standard form.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors	Convert numbers from standard form with negative powers of ordinar numbers To multiply and divide numbers in standard form. To add and subtract numbers in standard form.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement	Convert numbers from standard form with negative powers of ordinary numbers To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity	Convert numbers from standard form with negative powers of ordinary numbers To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity solve problems.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity	Convert numbers from standard form with negative powers of ordinar numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity	Convert numbers from standard form with negative powers of ordinary numbers To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand the similarity of regular polygons.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Use similarity to solve problems. Calculate perimeters of similar shapes.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.4 Congruence 1	Convert numbers from standard form with negative powers of ordinar numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Use similarity to solve problems. Understand the similarity of regular polygons. Calculate perimeters of similar shages. Recognise congruent shages.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.4 Congruence 1	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand the similarity of regular polygons. Calculate perimeters of similar shapes. Recognise congruent shapes.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2	Convert numbers from standard form with negative powers of ordinar numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand the similarity of regular polygons. Calculate perimets of similar shapes. Recognise congruent shapes. Use congruence to work out unknown sides.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand the similarity of regular polygons. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand the similarity of regular polygons. Calculate perimeters of similar shapes. Recognise congruents shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2 19.6 Vectors 1	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand the similarity of regular polygons. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2 19.6 Vectors 1	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve an enlargement. Use similarity of an enlargement. Use similarity of solve and solve and solve and the similarity of the solve and the similarity of the solve and the similarity of the solve and the
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2 19.6 Vectors 1 19.7 Vectors 1 19.7 Vectors 2	Convert numbers from standard form with negative powers of ordinar numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown sides. Calculate perimeters of similar shapes. Calculate perimeters of similar sh
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2 19.6 Vectors 1 19.7 Vectors 2	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand the similarity of regular polygons. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Add and subtract vectors. Subtract vectors.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2 19.6 Vectors 1 19.7 Vectors 2	Convert numbers from standard form with negative powers of ordinar numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Use similarity to solve problems. Calculate perimeters of similar pages. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Calculate perimeters of similar solvers. Sind the subtract vectors. Find the resultant of two vectors. Subtract vectors. Find multiples of a vector.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2 19.6 Vectors 1 19.7 Vectors 2 20 More algebra	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand the similarity of regular polygons. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Add and subtract vectors. Subtract vectors. Find the resultant of two vectors. Find multiples of a vector.
AUTUMN		Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand the similarity of regular polygons. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Add and subtract vectors. Find the resultant of two vectors. Subtract vectors. Find the resultant of two vectors. Subtract vectors. Find multiples of a vector.
AUTUMN		Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand the similarity of regular polygons. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Subtract vectors. Find the resultant of two vectors. Subtract vectors. Find the resultant of two vectors. Draw and interpret graphs of cubic functions. Draw and interpret graphs of cubic functions.
AUTUMN		Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand the similarity of regular polygons. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Add and subtract vectors. Find the resultant of two vectors. Subtract vectors. Find multiples of a vector. Draw and interpret graphs of ye 1/x. Draw and interpret provide to colue problems.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2 19.6 Vectors 1 19.7 Vectors 2 20 More algebra 20.1 Graphs of cubic and reciprocal functions 20.2 Non-linear graphs	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Use congruence to work out unknown sides. Subtact vectors. Find multiples of a vector. Draw and interpret graphs of cubic functions. Draw and interpret graphs of y = 1/x.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2 19.6 Vectors 1 19.7 Vectors 2 20 More algebra 20.1 Graphs of cubic and reciprocal functions 20.2 Non-linear graphs	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Use similarity to solve problems. Calculate perimeters of similar shapes. Calculate perimeters of similar shapes. Calculate perimeters of similar shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Add and subtract vectors. Subtract vectors. Find the resultant of two vectors. Subtract vectors. Find multiples of a vector. Draw and interpret graphs of cubic functions. Draw and interpret graphs to solve problems.
AUTUMN		Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Event to solve angle problems. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Calculate perimeters of similar shapes. Add and subtract vectors. Find the resultant of two vectors. Subtract vectors. Find multiples of a vector. Draw and interpret graphs of y = 1/x. Draw and interpret graphs of y = 1/x.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2 19.6 Vectors 1 19.7 Vectors 2 20 More algebra 20.1 Graphs of cubic and reciprocal functions 20.2 Non-linear graphs 20.3 Solving simultaneous equations arabhically.	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand the similarity of regular polygons. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Add and subtract vectors. Find the resultant of two vectors. Subtract vectors. Find multiples of a vector. Draw and interpret graphs of cubic functions. Draw and interpret graphs of y = 1/x. Draw and interpret graphs of y = 1/x. Draw and interpret non-linear graphs to solve problems.
AUTUMN		Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve angle problems. Understand the similarity of gular polygons. Calculate perimeters of similar shapes. Calculate perimeters of similar shapes. Calculate perimeters of similar shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Add and subtract vectors. Find the resultant of two vectors. Subtract vectors. Find the resultant of two vectors. Subtract vectors. Find multiples of a vector. Draw and interpret graphs of y = 1/x. Draw and interpret graphs of y = 1/x. Draw and interpret non-linear graphs to solve problems. Solve simultaneous equations by drawing a graph. Write and solve simultaneous equations.
AUTUMN	18.5 Calculating with standard form 19.1 Similarity and enlargement 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2 19.6 Vectors 1 19.7 Vectors 2 20 More algebra 20 Lora algebra 20 Lora algebra 20 Joint simultaneous equations graphically. 20.4 Solving simultaneous equations graphically	Convert numbers from standard form with negative powers of ordinar numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Calculate perimeters of similar shapes. Recognise congruent shapes. Uderstand the similarity of regular polygons. Calculate perimeters of similar shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Calculate vectors. End data subtract vectors. Find the resultant of two vectors. Subtract vectors. Find multiples of a vector. Draw and interpret graphs of cubic functions. Draw and interpret graphs of v = 1/x. Draw and interpret graphs of value functions. Solves simultaneous equations by drawing a graph. Write and solve simultaneous equations.
AUTUMN		Convert numbers from standard form with negative powers of ordinar numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand the similarity of regular polygons. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruene to work out unknown nigles. Use congruene to work out unknown sides. Add and subtract vectors. Find the resultant of two vectors. Subtract vectors. Find multiples of a vector. Draw and interpret graphs of y = 1/x. Draw and interpret graphs to solve problems. Solve simultaneous equations by drawing a graph. Write and solve simultaneous equations.
AUTUMN		Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Use congruence to work out unknown sides. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown sides. Calculate perimeters of similar shapes. Find the resultant of two vectors. Find multiples of a vector. Calculate perimeters. Find multiples of a vector. Calculate perimeters. Solve simultaneous equations by drawing a graph. Write and solve simultaneous equations. Solve simultaneous equations. Solve simultaneous equations. Solve simultaneous equations. Solve simultaneous equations. Solve simultaneous equations algebraically.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2 19.6 Vectors 1 19.7 Vectors 2 20 More algebra 20.1 Graphs of cubic and reciprocal functions 20.2 Non-linear graphs 20.3 Solving simultaneous equations algebraikally 20.4 Solving simultaneous equations algebraikally 20.5 Rearranging formulae	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve angle problems. Calculate perimeters of similar shapes. Calculate perimeters of similar shapes. Calculate perimeters of similar shapes. Understand the similarity of regular polygons. Calculate perimeters of similar shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Add and subtract vectors. Find the resultant of two vectors. Subtract vectors. Find multiples of a vector. Draw and interpret graphs of cubic functions. Draw and interpret graphs of y = 1/x. Draw and interpret graphs to solve problems. Solve simultaneous equations by drawing a graph. Write and solve simultaneous equations. Solve simultaneous equations algebraically.
AUTUMN		Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve angle problems. Calculate perimeters of similar shapes. Calculate perimeters of similar shapes. Calculate perimeters of similar shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Add and subtract vectors. Find the resultant of two vectors. Subtract vectors. Find mittiples of a vector. Draw and interpret graphs of cubic functions. Draw and interpret graphs of y = 1/x. Draw and interpret non-linear graphs to solve problems. Solve simultaneous equations by drawing a graph. Write and solve simultaneous equations. Solve simultaneous equations algebraically. Change the subject of a formula.
AUTUMN	18.5 Calculating with standard form 19 Congruence, similarity and vectors 19.1 Similarity and enlargement 19.2 More similarity 19.3 Using similarity 19.3 Using similarity 19.4 Congruence 1 19.5 Congruence 2 19.6 Vectors 1 19.7 Vectors 2 20 More algebra 20.1 Graphs of cubic and reciprocal functions 20.2 Non-linear graphs 20.3 Solving simultaneous equations algebraically 20.4 Solving simultaneous equations algebraically 20.5 Rearranging formulae 20.6 Proof	Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve angle problems. Understand the similarity of regular polygons. Calculate perimeters of similar shapes. Recognise congruent shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Add and subtract vectors. Find the resultant of two vectors. Subtract vectors. Find multiples of a vector. Draw and interpret graphs of cubic functions. Draw and interpret graphs of y = 1/x. Draw and interpret graphs of y = 1/x. Draw and interpret graphs of y = 1/x. Draw and interpret on-linear graphs to solve problems. Solve simultaneous equations by drawing a graph. Write and solve simultaneous equations. Solve simultaneous equations algebraically.
		Convert numbers from standard form with negative powers of ordinary numbers. To multiply and divide numbers in standard form. To add and subtract numbers in standard form. To add and subtract numbers in standard form. Understand similarity. Use similarity to solve angle problems. Find the scale factor of an enlargement. Use similarity to solve problems. Understand similarity of regular polygons. Calculate perimeters of similar shapes. Use congruence to work out unknown angles. Use congruence to work out unknown sides. Hold and subtract vectors. Find the resultant of two vectors. Subtract vectors. Find multiples of a vector. Draw and interpret graphs of cubic functions. Draw and interpret graphs of y = 1/x. Draw and interpret graphs of y = 1/x. Solve simultaneous equations by drawing a graph. Write and solve simultaneous equations. Solve simultaneous equations. Solve simultaneous equations. Change the subject of a formula. identify expressions, equations, formulae and identities. Prove results using algebra.