

Subject:	Mathematics				
SoW Title:	Autumn 1 & Autumn 2				
Year	2018/19				
Week	Title	Key Knowledge/Content	Assessment and Showcase Pieces (minimum grade 6)	Mastery tasks	Links to resources e.g. 100% Sheets
1	Unit 1: Integers and Decimals	<input type="checkbox"/> read, write, order and compare numbers up to 10 000 000 and determine the value of each digit <input type="checkbox"/> round any whole number to a required degree of accuracy		Hegarty Maths Tasks - see Google Classroom for further details	
2	Unit 1: Integers and Decimals	<input type="checkbox"/> solve problems involving addition and subtraction <input type="checkbox"/> solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why		Hegarty Maths Tasks - see Google Classroom for further details	
3	Unit 2: Multiplication and Division	<input type="checkbox"/> identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places <input type="checkbox"/> use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy <input type="checkbox"/> multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication		Hegarty Maths Tasks - see Google Classroom for further details	
4	Unit 2: Multiplication and Division	<input type="checkbox"/> multiply one-digit numbers with up to two decimal places by whole numbers <input type="checkbox"/> divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context <input type="checkbox"/> divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context		Hegarty Maths Tasks - see Google Classroom for further details	
5	Unit 2: Multiplication and Division	<input type="checkbox"/> use written division methods in cases where the answer has up to two decimal places <input type="checkbox"/> identify common factors, common multiples and prime numbers <input type="checkbox"/> perform mental calculations, including with mixed operations and large numbers <input type="checkbox"/> solve problems which require answers to be rounded to specified degrees of accuracy		Hegarty Maths Tasks - see Google Classroom for further details	
6	Unit 3: Calculation Problems	<input type="checkbox"/> find pairs of numbers that satisfy an equation with two unknowns <input type="checkbox"/> use knowledge of the order of operations to carry out calculations involving the four operations		Hegarty Maths Tasks - see Google Classroom for further details	
7	Unit 3: Calculation Problems	<input type="checkbox"/> generate and describe linear number sequences <input type="checkbox"/> express missing number problems algebraically <input type="checkbox"/> solve problems involving addition, subtraction, multiplication and division		Hegarty Maths Tasks - see Google Classroom for further details	
8	Unit 4: Fractions	<input type="checkbox"/> use common factors to simplify fractions; use common multiples to express fractions in the same denomination <input type="checkbox"/> compare and order fractions, including fractions > 1		Hegarty Maths Tasks - see Google Classroom for further details	
9	Unit 4: Fractions	<input type="checkbox"/> associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8] <input type="checkbox"/> recall and use equivalences between simple fractions and decimals, including in different contexts		Hegarty Maths Tasks - see Google Classroom for further details	
10	Unit 4: Fractions	<input type="checkbox"/> generate and describe linear number sequences (with fractions) <input type="checkbox"/> add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions		Hegarty Maths Tasks - see Google Classroom for further details	
11	Revision and Assessment Week			Hegarty Maths Tasks - see Google Classroom for further details	
12	Reflect and Re-teach Week			Hegarty Maths Tasks - see Google Classroom for further details	
13	Unit 5: Missing Angles and Lengths	<input type="checkbox"/> recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. <input type="checkbox"/> express missing number problems algebraically <input type="checkbox"/> compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons		Hegarty Maths Tasks - see Google Classroom for further details	

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1	Unit 1: Reasoning with Integers	<ul style="list-style-type: none"> recognise concrete representations and place value models of whole numbers read and write whole numbers in figures and words mark the approximate position of a number on a number line 		Hegarty Maths Tasks - see Google Classroom for further details	
2	Unit 1: Reasoning with Integers	<ul style="list-style-type: none"> multiply, and divide, any whole number by 10, 100, 1000, or 10 000 round whole numbers to the nearest 1000, 100 or 10 put a set of numbers in ascending or descending order 		Hegarty Maths Tasks - see Google Classroom for further details	
3	Unit 2: Mental Addition and Subtraction of Integers	<ul style="list-style-type: none"> add and subtract with and without concrete representation and place value tables choose and use a variety of strategies to mentally add and subtract sets of numbers understand and use the commutativity and associativity of addition solve addition and subtraction problems in a variety of contexts 		Hegarty Maths Tasks - see Google Classroom for further details	
4	Unit 3: Written Addition and Subtraction of Integers	<ul style="list-style-type: none"> choose from and use a variety of strategies to add and subtract sets of numbers understand and use the formal written algorithms for addition and subtraction use estimation to find approximate answers understand, calculate and work with perimeters develop their understanding of bar modelling to represent problems use approximation to estimate the answers to calculations 		Hegarty Maths Tasks - see Google Classroom for further details	
5	Unit 4: Addition and Subtraction of Decimals	<ul style="list-style-type: none"> understand decimal notation and place values (tenths, hundredths, thousandths) and identify the values of the digits in a decimal read and write decimals with up to 6 digits in figures and words convert between decimal and fraction where the denominator is a factor of 10 or 100 use the number line to display decimals and round decimals to the nearest whole number, to 1 or 2 decimal places use correctly the symbols $<$, $>$ etc. and the associated language to order a set of positive integers and decimals, or measurements multiply and divide any integer or decimal by 10, 100, 1000, or 10 000 		Hegarty Maths Tasks - see Google Classroom for further details	
6	Unit 4: Addition and Subtraction of Decimals	<ul style="list-style-type: none"> solve word problems involving the addition and subtraction of money in decimal notation relate decimal arithmetic to integer arithmetic use standard written methods in column format for addition and subtraction of integers and decimals extend existing mental calculation to include decimals calculate the perimeter of rectangles, squares and rectilinear figures 		Hegarty Maths Tasks - see Google Classroom for further details	
7	Unit 5: Multiplication and Division of Integers	<ul style="list-style-type: none"> use multiplication and division facts to solve mental calculations use knowledge of place value and the relationship between multiplication and division to derive facts from known facts use the terms 'product', 'multiple' and 'LCM' divide whole numbers and decimals by whole numbers use the terms 'quotient', 'remainder', 'factor', 'HCF' 		Hegarty Maths Tasks - see Google Classroom for further details	
8	Unit 5: Multiplication and Division of Integers	<ul style="list-style-type: none"> understand and use the column method to multiply integers understand and use the formal algorithm for division represent multiplication and division word problems using bar models, and solve estimate answers in calculations and check that results are reasonable explore commutativity and associativity 		Hegarty Maths Tasks - see Google Classroom for further details	
9	Unit 6: Area	<ul style="list-style-type: none"> calculate the areas of rectangles, triangles and compound shapes multiply and divide whole numbers in the context of area estimate answers in calculations and check that results are reasonable solve problems involving length, perimeter and area, including compound 		Hegarty Maths Tasks - see Google Classroom for further details	

		<ul style="list-style-type: none"> • shapes and calculating the lengths of unknown sides 		
10	Unit 7: Multiplication and Division of Decimals	<ul style="list-style-type: none"> • multiply and divide whole numbers and decimals 		Hegarty Maths Tasks - see Google Classroom for further details
		<ul style="list-style-type: none"> • estimate answers in calculations and check that results are reasonable 		
		<ul style="list-style-type: none"> • solve problems involving length, perimeter and area, including compound shapes and calculating the lengths of unknown sides 		
		<ul style="list-style-type: none"> • estimate answers in calculations and check that results are reasonable 		
		<ul style="list-style-type: none"> • calculate the areas of rectangles, triangles and compound shapes with decimals 		
11	Revision and Assessment Week			Hegarty Maths Tasks - see Google Classroom for further details
12	Reflect and Re-teach Week			Hegarty Maths Tasks - see Google Classroom for further details
13	Unit 8: Further Application of Multiplication and Division	<ul style="list-style-type: none"> • find the mean average, interpreting average as "total amount ÷ number of items" and solve word problems involving this 		Hegarty Maths Tasks - see Google Classroom for further details
		<ul style="list-style-type: none"> • develop strategies for division 		
		<ul style="list-style-type: none"> • choose the appropriate operation(s) when problem solving 		
		<ul style="list-style-type: none"> • measure time, calculate with time and solve time word problems 		

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1	Unit 1: Prime Numbers and Factorisation	<input type="checkbox"/> Find the factors and multiples of a number <input type="checkbox"/> Find the prime factors of a number		Hegarty Maths Tasks - see Google Classroom for further details	
2	Unit 1: Prime Numbers and Factorisation	<input type="checkbox"/> Determine HCF and LCM by prime factorisation <input type="checkbox"/> Find squares, square roots, cubes and cube roots using prime factorisation <input type="checkbox"/> Use indices to record repeated multiplication		Hegarty Maths Tasks - see Google Classroom for further details	
3	Unit 2: Fraction Addition and Subtraction	<input type="checkbox"/> Use equivalent fractions <input type="checkbox"/> Add and subtract fractions with like and unlike denominators		Hegarty Maths Tasks - see Google Classroom for further details	
4	Unit 2: Fraction Addition and Subtraction	<input type="checkbox"/> Add and subtract fractions mixed numbers and improper fractions <input type="checkbox"/> Convert between improper fractions and mixed numbers		Hegarty Maths Tasks - see Google Classroom for further details	
5	Unit 2: Fraction Addition and Subtraction	<input type="checkbox"/> Add and subtract fractions mixed numbers and improper fractions <input type="checkbox"/> Solve problems involving the addition and subtraction of fractions and mixed numbers		Hegarty Maths Tasks - see Google Classroom for further details	
6	Unit 3: Positive and Negative Numbers	<input type="checkbox"/> Represent and order positive and negative integers on a number line <input type="checkbox"/> Show addition and subtraction on a number line		Hegarty Maths Tasks - see Google Classroom for further details	
7	Unit 3: Positive and Negative Numbers	<input type="checkbox"/> Apply the four basic operations on positive and negative integers <input type="checkbox"/> Calculate with rational and decimal numbers (including negative numbers)		Hegarty Maths Tasks - see Google Classroom for further details	
8	Unit 4b: Algebraic Expressions	<input type="checkbox"/> Distinguish between terms and coefficients in algebraic expressions <input type="checkbox"/> Distinguish between like and unlike terms in algebraic expressions <input type="checkbox"/> Simplify expressions, collect like terms and expand and factorise linear expressions		Hegarty Maths Tasks - see Google Classroom for further details	
9	Unit 4b: Algebraic Expressions	<input type="checkbox"/> Substitute numerical values into formulae and expression <input type="checkbox"/> Find the HCF and LCM of algebraic terms		Hegarty Maths Tasks - see Google Classroom for further details	
10	Unit 4c: Algebraic Equations	<input type="checkbox"/> Solve linear equations in one unknown, including with brackets and where the unknown appears on both sides of the equation* <input type="checkbox"/> Solve simple fractional equations that can be reduced to linear equations		Hegarty Maths Tasks - see Google Classroom for further details	
11	Revision and Assessment Week			Hegarty Maths Tasks - see Google Classroom for further details	
12	Reflect and Re-teach Week			Hegarty Maths Tasks - see Google Classroom for further details	
13	Unit 4c: Algebraic Equations	<input type="checkbox"/> Solve simple fractional equations that can be reduced to linear equations <input type="checkbox"/> Formulate a linear equation in one unknown to solve problems		Hegarty Maths Tasks - see Google Classroom for further details	

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1	Unit 1: Coordinates	<input type="checkbox"/> Plot coordinates in all four quadrants <input checked="" type="checkbox"/> Find the midpoint of a line segment joining two points <input type="checkbox"/> Find an endpoint of a line segment, given the midpoint and one endpoint		Hegarty Maths Tasks - see Google Classroom for further details	
2	Unit 2: Linear Graphs	<input type="checkbox"/> Solve problems using coordinate grids <input type="checkbox"/> Identify the equations of horizontal and vertical lines		Hegarty Maths Tasks - see Google Classroom for further details	
3	Unit 2: Linear Graphs	<input type="checkbox"/> Plot coordinates from a rule to generate a straight line <input type="checkbox"/> Identify key features of a linear graph		Hegarty Maths Tasks - see Google Classroom for further details	
4	Unit 2: Linear Graphs	<input type="checkbox"/> Make links between the graphical and the algebraic representation <input type="checkbox"/> Identify parallel lines from algebraic equations		Hegarty Maths Tasks - see Google Classroom for further details	
5	Unit 3: Proportion	<input type="checkbox"/> Recognise if two quantities are directly or inversely proportional to each other <input type="checkbox"/> Recognise the graphical representation of a proportional relationship		Hegarty Maths Tasks - see Google Classroom for further details	
6	Unit 3: Proportion	<input type="checkbox"/> Solve proportion problems <input type="checkbox"/> Interpret and use conversion graphs and other graphs of proportional relationships		Hegarty Maths Tasks - see Google Classroom for further details	
7	Unit 4: Scales and Standard Form	<input type="checkbox"/> Use standard form to express very large and small numbers <input type="checkbox"/> Convert between standard form and ordinary numbers <input type="checkbox"/> Use standard form to solve simple problems <input type="checkbox"/> Use scales to solve distance and area problems in context		Hegarty Maths Tasks - see Google Classroom for further details	
8	Unit 12a: Linear Equations	<input type="checkbox"/> Solve linear equations in one unknown <input type="checkbox"/> Solve simple fractional equations that can be reduced to linear equations		Hegarty Maths Tasks - see Google Classroom for further details	
9	Unit 12a: Linear Equations	<input type="checkbox"/> Formulate a linear equation in one unknown to solve problems <input type="checkbox"/> Form and solve linear equations, including where the unknown appears on both sides and those involving fractions and brackets		Hegarty Maths Tasks - see Google Classroom for further details	
10	Unit 7: Formulae	<input type="checkbox"/> Write expressions, equations and formulae to represent relationships <input type="checkbox"/> Use substitution to find the value of one variable given other values		Hegarty Maths Tasks - see Google Classroom for further details	
11	Revision and Assessment Week			Hegarty Maths Tasks - see Google Classroom for further details	
12	Reflect and Re-teach Week			Hegarty Maths Tasks - see Google Classroom for further details	
13	Unit 7: Formulae	<input type="checkbox"/> Make links between solving linear equations and rearranging formulae <input type="checkbox"/> Apply "changing the subject" to equations of straight lines <input type="checkbox"/> Manipulate familiar formulae such as formulae for area and perimeter		Hegarty Maths Tasks - see Google Classroom for further details	

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1 & 2	Core 1 - Indices and Standard Form	<input type="checkbox"/> Understand the meaning of higher powers and know how to find these, and corresponding roots <input type="checkbox"/> Understand the difference between decimal approximation and exact values of roots <input type="checkbox"/> Derive, understand and use the rules of indices with integer values		Hegarty Maths Tasks - see Google Classroom for further details	
		<input type="checkbox"/> Convert between standard form numbers and ordinary numbers <input type="checkbox"/> Perform calculations involving standard form, with and without a calculator as appropriate		Hegarty Maths Tasks - see Google Classroom for further details	
3	Higher 1 - Further Indices and Surds	<input type="checkbox"/> Estimate powers and roots of any given positive number <input type="checkbox"/> Calculate with fractional indices <input type="checkbox"/> Understand and use surds; know the difference between rational and irrational numbers <input type="checkbox"/> Rationalise the denominator of a surd, including with a conjugate <input type="checkbox"/> Change recurring decimals into their corresponding fractions and vice versa		Hegarty Maths Tasks - see Google Classroom for further details	
4	Core 2 - Geometric Change	<input type="checkbox"/> Know the difference between simple and compound interest <input type="checkbox"/> Solve problems involving simple and compound interest <input type="checkbox"/> Solve other problems involving repeated change, such as depreciation <input type="checkbox"/> Solve problems involving growth and decay		Hegarty Maths Tasks - see Google Classroom for further details	
5	Core 3 - Sequences	<input type="checkbox"/> Recognise and describe arithmetic and geometric sequences <input type="checkbox"/> Generate terms of a sequence given a rule <input type="checkbox"/> Find a formula for the nth term of a linear and geometric sequences <input type="checkbox"/> Explain whether a number is a member of a given sequence		Hegarty Maths Tasks - see Google Classroom for further details	
6	Higher 2 - Further Sequences	<input type="checkbox"/> Find the formula for the nth term of a quadratic sequence <input type="checkbox"/> Find missing terms in, and find the formula for the nth term of, geometric sequences with ratios that are surds		Hegarty Maths Tasks - see Google Classroom for further details	
7	Core 4 - Enlargement and Similarity	<input type="checkbox"/> Enlarge shapes – with or without a coordinate grid – from a given centre, and using both positive integer and fractional scale factors <input type="checkbox"/> Find the centre of enlargement given a shape and its image <input type="checkbox"/> Understand the meaning of similarity <input type="checkbox"/> Find missing sides in pairs of similar shapes, including similar triangles		Hegarty Maths Tasks - see Google Classroom for further details	
8 & 9	Core 5 - Bearings and Trigonometry	<input type="checkbox"/> Understand and use bearings; solve problems involving bearings		Hegarty Maths Tasks - see Google Classroom for further details	
		<input type="checkbox"/> Understand and use the trigonometric ratios sin, cos and tan <input type="checkbox"/> Understand the link between similar triangles and trigonometry <input type="checkbox"/> Derive and use the exact values of sin θ and cos θ for $\theta = 00, 300, 450, 600$ and 900 <input type="checkbox"/> Know the exact value of tan θ for $\theta = 00, 300, 450, 600$ <input type="checkbox"/> Solve problems involving right-angled triangles using Pythagoras' Theorem and trigonometry			
10	Higher 5 - Triangles from 3D	<input type="checkbox"/> Apply Pythagoras' theorem to problems in three dimensions, including repeated use of the theorem <input type="checkbox"/> Identify right-angled triangles in three-dimensional shapes and use trigonometry to find missing sides and angles		Hegarty Maths Tasks - see Google Classroom for further details	
11	Revision and Assessment Week			Hegarty Maths Tasks - see Google Classroom for further details	
12	Reflect and Re-teach Week			Hegarty Maths Tasks - see Google Classroom for further details	
13	Core 18 - Circles	<input type="checkbox"/> Identify and use the terms centre, radius, chord, diameter, circumference, tangent, arc, sector and segment <input type="checkbox"/> Calculate the area and circumference of a circle <input type="checkbox"/> Calculate the length of an arc of a sector of a circle <input type="checkbox"/> Calculate the area of a sector of a circle		Hegarty Maths Tasks - see Google Classroom for further details	

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1	Consolidate 1 - Fractions	<input type="checkbox"/> Understand fraction notation, recognising when fractions are equivalent <input type="checkbox"/> Find fractions of a quantity <input type="checkbox"/> Convert between improper fractions and mixed numbers <input type="checkbox"/> Apply the four rules of number to fractions		Hegarty Maths Tasks - see Google Classroom for further details	
2 & 3	Consolidate 3 & Core 1 - Indices and Standard Form	<input type="checkbox"/> Understand the meaning of higher powers and know how to find these, and corresponding roots <input type="checkbox"/> Understand the difference between decimal approximation and exact values of roots <input type="checkbox"/> Derive, understand and use the rules of indices with integer values <input type="checkbox"/> Convert between standard form numbers and ordinary numbers <input type="checkbox"/> Perform calculations involving standard form, with and without a calculator as appropriate		Hegarty Maths Tasks - see Google Classroom for further details	
4	Consolidate 2 - Fractions, Decimals and Percentages	<input type="checkbox"/> Understand equivalence of fractions, decimals and percentage and convert between them <input type="checkbox"/> Increase and decrease by a given percentage <input type="checkbox"/> Express one number as a percentage of another, including percentage changes		Hegarty Maths Tasks - see Google Classroom for further details	
5	Core 2 - Geometric Change	<input type="checkbox"/> Know the difference between simple and compound interest <input type="checkbox"/> Solve problems involving simple and compound interest <input type="checkbox"/> Solve other problems involving repeated change, such as depreciation <input type="checkbox"/> Solve problems involving growth and decay		Hegarty Maths Tasks - see Google Classroom for further details	
6	Consolidate 4 - Ratio	<input type="checkbox"/> Recognise and use ratio notation, equivalent ratios and be able to simplify ratios <input type="checkbox"/> Compare ratios to fractions, decimals and percentages <input type="checkbox"/> Share quantities in a given ratio <input type="checkbox"/> Find missing values in the context of ratio problems		Hegarty Maths Tasks - see Google Classroom for further details	
7	Consolidate 8a - Angle Facts	<input type="checkbox"/> Know the names of different types of angle <input type="checkbox"/> Know and use: the sum of angles at a point and angles on a straight line; vertically opposite angles are equal; <input type="checkbox"/> Know and use: alternate angles are equal; corresponding angles are equal <input type="checkbox"/> Derive and use the sum of the interior angles of a triangle		Hegarty Maths Tasks - see Google Classroom for further details	
8	Core 4 - Enlargement and Similarity	<input type="checkbox"/> Enlarge shapes – with or without a coordinate grid – from a given centre, and using both positive integer and fractional scale factors <input type="checkbox"/> Find the centre of enlargement given a shape and its image <input type="checkbox"/> Understand the meaning of similarity <input type="checkbox"/> Find missing sides in pairs of similar shapes, including similar triangles		Hegarty Maths Tasks - see Google Classroom for further details	
9	Consolidate 6 - Pythagoras' Theorem	<input type="checkbox"/> Find missing sides in right-angled triangles using Pythagoras' Theorem <input type="checkbox"/> Identify whether a triangle is right-angled by considering the lengths of its sides <input type="checkbox"/> Solve problems with Pythagoras' Theorem including in practical contexts		Hegarty Maths Tasks - see Google Classroom for further details	
10	Core 5 - Bearings and Trigonometry	<input type="checkbox"/> Understand and use bearings; solve problems involving bearings		Hegarty Maths Tasks - see Google Classroom for further details	
11	Revision and Assessment Week			Hegarty Maths Tasks - see Google Classroom for further details	
12	Reflect and Re-teach Week			Hegarty Maths Tasks - see Google Classroom for further details	
13	Core 5 - Bearings and Trigonometry	<input type="checkbox"/> Understand and use the trigonometric ratios sin, cos and tan <input type="checkbox"/> Understand the link between similar triangles and trigonometry <input type="checkbox"/> Derive and use the exact values of sin θ and cos θ for $\theta = 00, 300, 450, 600$ and 900 <input type="checkbox"/> Know the exact value of tan θ for $\theta = 00, 300, 450, 600$ <input type="checkbox"/> Solve problems involving right-angled triangles using Pythagoras' Theorem and trigonometry		Hegarty Maths Tasks - see Google Classroom for further details	

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1	Core 6a and Higher 7a – Algebraic Reasoning and Proof	<ul style="list-style-type: none"> <input type="checkbox"/> Formulate simple formulae from real-world situations <input type="checkbox"/> Rearrange formulae where the desired subject appears twice <input type="checkbox"/> Simplify more complex algebraic expressions, including powers multiplied over a single bracket 		Hegarty Maths Tasks - see Google Classroom for further details	
2	Core 6a and Higher 7a – Algebraic Reasoning and Proof	<ul style="list-style-type: none"> <input type="checkbox"/> Use reasoning to show whether two expressions are equivalent; use the identity symbol <input type="checkbox"/> Develop and critique simple mathematical arguments <input type="checkbox"/> Use algebra to construct proofs of arguments 		Hegarty Maths Tasks - see Google Classroom for further details	
3	Higher 15 – Algebraic Fractions	<ul style="list-style-type: none"> <input type="checkbox"/> Simplify algebraic fractions <input type="checkbox"/> Manipulate algebraic fractions 		Hegarty Maths Tasks - see Google Classroom for further details	
4	Core 7 – Geometric Reasoning	<ul style="list-style-type: none"> <input type="checkbox"/> Use angle facts to find missing angles in increasingly complex situations <input type="checkbox"/> Use angle facts to justify results in simple proofs <input type="checkbox"/> Use the known properties of triangles and quadrilaterals to follow and to derive simple proofs in rectilinear figures, including key angle and area facts 		Hegarty Maths Tasks - see Google Classroom for further details	
5	Higher 16 – Circle Theorems	<ul style="list-style-type: none"> <input type="checkbox"/> Prove and use: <ul style="list-style-type: none"> <input type="checkbox"/> The angle subtended by an arc at the centre of a circle is twice that at the circumference <input type="checkbox"/> The angle in a semi-circle is a right angle <input type="checkbox"/> Angles in the same segment are equal <input type="checkbox"/> Opposite angles of a cyclic quadrilateral sum to 180 <input type="checkbox"/> A radius bisects a chord if and only if it is perpendicular to the chord <input type="checkbox"/> The angle between a tangent and a radius is a right angle <input type="checkbox"/> The alternate segment theorem 		Hegarty Maths Tasks - see Google Classroom for further details	
6	Core 8 – Vectors	<ul style="list-style-type: none"> <input type="checkbox"/> Represent a two-dimensional vector as a column vector <input type="checkbox"/> Add and subtract vectors <input type="checkbox"/> Multiply a vector by a scalar 		Hegarty Maths Tasks - see Google Classroom for further details	
7	Higher 7b – Vector Proof	<ul style="list-style-type: none"> <input type="checkbox"/> Use vectors to prove geometric arguments 		Hegarty Maths Tasks - see Google Classroom for further details	
8	Consolidate 5 – Transformations	<ul style="list-style-type: none"> <input type="checkbox"/> Reflect a shape in a given line, including on a coordinate grid using e.g. $x = \pm a$ <input type="checkbox"/> Rotate a shape by a 90, 180 and 270 about a given centre <input type="checkbox"/> Translate a shape by a given vector <input type="checkbox"/> Describe a single transformation using correct mathematical language 		Hegarty Maths Tasks - see Google Classroom for further details	
9	Higher 4 – Further Transformations	<ul style="list-style-type: none"> <input type="checkbox"/> Enlarge shapes from a given centre, including negative integer and fractional scale factors <input type="checkbox"/> Consider the effects of combining reflections, rotations and translation 		Hegarty Maths Tasks - see Google Classroom for further details	
10	Consolidate 11 and Core 11 – Congruence, Constructions and Loci	<ul style="list-style-type: none"> <input type="checkbox"/> Use rulers, protractors and pairs of compasses accurately <input type="checkbox"/> Use the standard ruler and compass constructions for: perpendicular bisector of a line segment; constructing a perpendicular to a given line at a given point; bisecting a given angle <input type="checkbox"/> Understand and use the perpendicular distance from a point to a line as the shortest distance to the line <input type="checkbox"/> Construct triangles and quadrilaterals from given information <input type="checkbox"/> Apply ruler and compass constructions to construct figures 		Hegarty Maths Tasks - see Google Classroom for further details	
11	Consolidate 11 and Core 11 – Congruence, Constructions and Loci	<ul style="list-style-type: none"> <input type="checkbox"/> Identify the loci of points and use these to solve real-world problems <input type="checkbox"/> Recognise congruent triangles <input type="checkbox"/> Prove pairs of triangles are congruent using SSS, ASA, AAS and RHS 		Hegarty Maths Tasks - see Google Classroom for further details	
12		MOCK EXAMS		Hegarty Maths Tasks - see Google Classroom for further details	
13		MOCK EXAMS		Hegarty Maths Tasks - see Google Classroom for further details	

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1	Consolidate 14 & 15 - Ratio and Proportion	<input type="checkbox"/> Share a quantity in a given ratio <input type="checkbox"/> Solve simple ratio and proportion problems e.g. recipes <input type="checkbox"/> Solve problems using unitary method		Hegarty Maths Tasks - see Google Classroom for further details	
2	Consolidate 14 & 15 - Ratio and Proportion	<input type="checkbox"/> Recognise the link between gradient and proportion <input type="checkbox"/> Solve problems involving direct proportion in numerical and algebraic contexts <input type="checkbox"/> Solve problems involving inverse proportion in contexts such as speed, distance and time		Hegarty Maths Tasks - see Google Classroom for further details	
3	Core 23 - Compound Measures	<input type="checkbox"/> Use and apply compound units such as speed, density and pressure <input type="checkbox"/> Know and apply Density = Mass ÷ Volume <input type="checkbox"/> Use and apply compound units in algebraic contexts		Hegarty Maths Tasks - see Google Classroom for further details	
4	Consolidate 13 - Real-Life Graphs	<input type="checkbox"/> Construct and interpret graphs of real-life contexts such as: <ul style="list-style-type: none"> o Currency conversion o Temperature conversion o Distance-time graphs <input type="checkbox"/> Interpret the gradient and y-intercept of a straight-line in context		Hegarty Maths Tasks - see Google Classroom for further details	
5	Core 6a - Algebraic Reasoning	<input type="checkbox"/> Formulate simple formulae from real-world situations <input type="checkbox"/> Simplify more complex algebraic expressions, including powers multiplied over a single bracket <input type="checkbox"/> Use reasoning to show whether two expressions are equivalent; use the identity symbol <input type="checkbox"/> Develop and critique simple mathematical arguments		Hegarty Maths Tasks - see Google Classroom for further details	
6	Consolidate 8b - Triangles, Quadrilaterals and Polygons	<input type="checkbox"/> Find the sum of the interior angles of a polygon <input type="checkbox"/> Find the interior angle of a regular polygon <input type="checkbox"/> Derive and use the sum of the exterior angles of a polygon <input type="checkbox"/> Identify and know the properties of special quadrilaterals		Hegarty Maths Tasks - see Google Classroom for further details	
7	Core 7 - Geometric Reasoning	<input type="checkbox"/> Use angle facts to find missing angles in increasingly complex situations <input type="checkbox"/> Use angle facts to justify results in simple proofs <input type="checkbox"/> Use the known properties of triangles and quadrilaterals to follow and to derive simple proofs in rectilinear figures, including key angle and area facts		Hegarty Maths Tasks - see Google Classroom for further details	
8	Core 8 - Vectors	<input type="checkbox"/> Represent a two-dimensional vector as a column vector <input type="checkbox"/> Add and subtract vectors <input type="checkbox"/> Multiply a vector by a scalar		Hegarty Maths Tasks - see Google Classroom for further details	
9	Consolidate 5 - Transformations	<input type="checkbox"/> Reflect a shape in a given line, including on a coordinate grid using e.g. $x = \pm a$ <input type="checkbox"/> Rotate a shape by a 90°, 180° and 270° about a given centre <input type="checkbox"/> Translate a shape by a given vector <input type="checkbox"/> Describe a single transformation using correct mathematical language		Hegarty Maths Tasks - see Google Classroom for further details	
10	Consolidate 11 - Congruence, Constructions and Loci	<input type="checkbox"/> Use rulers, protractors and pairs of compasses accurately <input type="checkbox"/> Use the standard ruler and compass constructions for: perpendicular bisector of a line segment; constructing a perpendicular to a given line at a given point; bisecting a given angle <input type="checkbox"/> Understand and use the perpendicular distance from a point to a line as the shortest distance to the line <input type="checkbox"/> Construct triangles and quadrilaterals from given information <input type="checkbox"/> Apply ruler and compass constructions to construct figures		Hegarty Maths Tasks - see Google Classroom for further details	
11	Core 11 - Congruence, Constructions and Loci	<input type="checkbox"/> Identify the loci of points and use these to solve real-world problems <input type="checkbox"/> Recognise congruent triangles <input type="checkbox"/> Prove pairs of triangles are congruent using SSS, ASA, AAS and RHS		Hegarty Maths Tasks - see Google Classroom for further details	
12		MOCK EXAMS		Hegarty Maths Tasks - see Google Classroom for further details	
13		MOCK EXAMS		Hegarty Maths Tasks - see Google Classroom for further details	