



****Note: Objectives in blue are additional higher content for extension****



Hegarty Home Support Guide.pdf

Home Learning is completed using [Hegarty Maths](#). A Home Support guide can be found [here](#).

Half Term 1		
Date	Curriculum Overview	Home Learning Hegarty Maths Video and Quiz Numbers
WC 02/09	Four Operations with Directed Number <ul style="list-style-type: none"> - Addition and subtraction involving negative numbers - Addition and subtraction of directed numbers (+- and --) - Multiplication and Division of directed numbers - Using a calculator for directed number calculations - Understand and evaluate squared and cubed numbers - Understand that positive numbers have more than one square root - Use the order of operations including directed number, squared, cubed and roots 	37 - Comparing negative numbers 39 - Adding negative numbers 40 – Subtracting negative numbers 41 – Adding and subtracting positive and negative numbers
WC 07/09		42 – Multiplying positive and negative numbers 43 – Dividing positive and negative numbers 100 – Cube numbers 101 – Square and cube roots
WC 14/09	Addition and Subtraction of Fractions <ul style="list-style-type: none"> - Represent mixed numbers and improper fractions in different ways - Convert a mixed number to an improper fraction - Convert an improper fraction to a mixed number - Add and subtract fractions where denominators share a simple common multiple - Add and subtract fractions with any denominator - Add and subtract improper fractions and mixed numbers (H) - Add and subtract fractions and decimals (H) 	63 – Improper fractions to mixed numbers 64 – Mixed numbers to improper fractions 65 - Add and subtract fractions (same denominator) 66 – Add and subtract fractions (different denominators)
WC 21/09	Geometry <ul style="list-style-type: none"> - Solve problems using the area of rectangles and parallelograms - Solve problems using the area of triangles - Solve problems using the area of trapezia (H) - Understand and use letter and labelling conventions including those for geometric figures - Draw and measure line segments including geometric figures - Understand angles as a measure of turn - Measure angles up to 180° - Draw angles up to 180° - Draw and measure angles between 180° and 360° 	554 - Rectangles 556 - Parallelograms 557 - Triangles 559 – Trapezia (H) 456 – Naming sides and angles
WC 28/09		812 – Angles around a point (1) 813 - Angles around a point (2) 477 – Angles on a straight line (1) 478 - Angles on a straight line (2) 480 – Vertically opposite angles
WC 05/10	Probability and Sets <ul style="list-style-type: none"> - Know and use the vocabulary of probability - Understand the probability scale 	349 – Express probability in words 350 – Express probability in numbers 351 – Probability of single events

	<ul style="list-style-type: none"> - Generating sample spaces for single events - Calculate the probability of a single event - Know the sum of probabilities of all possible outcomes is 1 - Identify and represent sets - Interpret and create Venn Diagrams - Understand and use the union of sets - Begin to find the probability using Venn diagrams 	370 – Listing elements in a set 372 – Displaying sets in a Venn diagram
WC 12/10	Prime Number and Proof <ul style="list-style-type: none"> - Identify factors of a number - Identify multiples of a number - Find the HCF, LCM of two numbers - Write a number as a product of its prime factors 	27 – Factors of a number 33 – Multiple of a number 31 - HCF 34 - LCM 28 – Prime numbers 29 – Prime factorisation
Half Term 2		
Date	Curriculum Overview	Home Learning Hegarty Maths Video and Quiz Numbers
WC 02/11	Ratio and Scale <ul style="list-style-type: none"> - Understand ratio and its link to multiplication - Circumference of a circle - Use ratio notation - Reduce ratios to simplest form - Solve ratio problems - Ratio in the form 1:n - Comparing ratios 	329 – Simplify Ratios 331 – Write ratios in the form 1:n or n:1 332 – Share in a given ratio 333 – Share in a given ratio 334 – Share in a given ratio 335 – Harder problems involving ratios 330 – Write ratios as fractions/proportions
WC 09/11		
WC 14/09		
WC 21/09	Multiplicative Change <ul style="list-style-type: none"> - Use scale factors, linking to ratio, to solve simple directional proportion problems Scale diagrams and maps	339 to 341 – Direct proportion 739 to 740 – Recipe problems 864 to 868 Scale diagrams 608 to 610 Similar polygons 611 to 613 Similar triangles 712 to 713 Conversion graphs 707 to 708 Converting currency
WC 28/09		
WC 05/10	Multiplying and dividing fractions <ul style="list-style-type: none"> - Multiplying and dividing a fraction by an integer • Multiplying and dividing a fraction by a fraction Multiplying and dividing mixed numbers	67 – Multiply whole number by fractions 68, 69 - Multiplying fractions 70 – Dividing fractions 71 – Reciprocal of fractions 172 – Expressions with algebraic fractions
Half Term 3		
Date	Curriculum Overview	Home Learning Hegarty Maths Video and Quiz Numbers
WC 04/01	<ul style="list-style-type: none"> • Multiplying and dividing a fraction by a fraction Multiplying and dividing mixed numbers (H) Working in a Cartesian plane <ul style="list-style-type: none"> - Plotting and interpreting straight line graphs - Equations of lines parallel to the axes - Model situations by translating them into expressions, formulae and graphs - Find the equation of a straight line (H) - Find the mid-point of a line segment (H) - Find the gradient of a line segment (H) - Drawing quadratic graphs (H) 	70 – Dividing fractions 71 – Reciprocal of fractions 172 – Expressions with algebraic fractions 199 – Cartesian axes and coordinates 205 – Drawing line graphs from coordinates 206 - 210 – Straight line graphs 200 – midpoint of a line segment 201 – Gradient of a line segment 251 – Drawing quadratic graphs from a table
WC 11/01		
WC 18/01		
WC 25/01	Collecting and Representing data <ul style="list-style-type: none"> - Scatter graphs and correlation (and line of best fit) - Listing outcomes - Read, interpret and collect data in frequency tables - Represent and interpret data in two way tables 	453 – Scatter Diagrams (1) 454 – Scatter Diagrams (2) 401 - Data collection sheets (tally charts) 402 - Grouped frequency tables (discrete) 403 - Grouped frequency tables (continuous) 422 - Two way tables
WC 01/02		

WC 08/02	Probability (Further) <ul style="list-style-type: none"> - Sample space diagrams - Probabilities from two way tables - Probabilities from venn diagrams - Product rule for number of outcomes (H) 	358 - 359 - Probability of more than one event 423 - 424 - Two way tables 383 - 384 - Venn diagrams for probability (1) and (2) extension: 385 - Venn diagrams for probability (3) 671 - 672 - Product rule for counting
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Half Term 4

Date	Curriculum Overview	Home Learning Hegarty Maths Video and Quiz Numbers
WC 22/02	Probability (Further) <ul style="list-style-type: none"> - Sample space diagrams - Probabilities from two way tables - Probabilities from venn diagrams - Product rule for number of outcomes (H) 	358 - 359 - Probability of more than one event 423 - 424 - Two way tables 383 - 384 - Venn diagrams for probability (1) and (2) extension: 385 - Venn diagrams for probability (3) 671 - 672 - Product rule for counting
WC 01/03	Brackets, equations and inequalities <ul style="list-style-type: none"> - Multiplying out singles brackets - Forming and using expressions, formulae and identities - Forming and solving equations and inequalities, with and without brackets - Factorising into a single bracket - Solving equations with unknowns on both sides - Expanding binomials Finding the ruler for nth term of a linear sequence	
WC 08/03		
WC 15/03		
WC 22/03	Sequences <ul style="list-style-type: none"> - Using more complex rules e.g. with brackets and squared terms 	

Half Term 5

Date	Curriculum Overview	Home Learning Hegarty Maths Video and Quiz Numbers
WC 12/04	Indices <ul style="list-style-type: none"> - Writing expressions with powers 	
WC 19/04	Fractions and Percentages <ul style="list-style-type: none"> - Revisit Fraction, Decimal and Percentage equivalence - One number as a percentage of another - Finding the original given any percentage 	
WC 26/04		
WC 03/05	Standard Index Form <ul style="list-style-type: none"> - Conversion between numbers in ordinary and standard form - Comparing numbers in standard form - Calculating with standard form - Negative and simple fractional indices 	
WC 10/05		
WC 17/05	Number Sense <ul style="list-style-type: none"> - Developing mental strategies - Measure and units - Estimation, including rounding to a given number of decimal places - Revisit order of operations - Simple surds - Converting area units - Error interval notation 	
WC 24/05		
	<ul style="list-style-type: none"> - Developing mental strategies - Measure and units - Estimation, including rounding to a given number of decimal places - Revisit order of operations - Simple surds - Converting area units Error interval notation	

Half Term 6

Date	Curriculum Overview	Home Learning Hegarty Maths Video and Quiz Numbers
WC 07/06	Angles in parallel lines and polygons	
WC 14/06	- Angles in parallel lines	
WC 21/06	<ul style="list-style-type: none"> - Angles in special quadrilaterals - Angles in polygons - Standard constructions including perpendicular Diagonal properties of quadrilaterals	
WC 28/06	Area of trapezia and circles	
WC 05/07	<ul style="list-style-type: none"> - Area of a trapezium - Area of a circle and parts of a circle - Using significant figures Area of compound shapes	
WC 12/07	Line symmetry and reflection <ul style="list-style-type: none"> - Line symmetry in polygons and other shapes Reflection of shapes in horizontal, vertical and diagonal lines	