

<u>Armfield Academy - Mathematics Department</u>



Year 9 Curriculum Overview

Note: Objectives in blue are additional higher content for extension



الوتعنا Hegarty Home Home Learning is completed using <u>Hegarty Maths</u>. A Home Support guide can be found here. Support Guide.pdf

	Half Term 1				
Date	Curriculum Overview	Home Learning <u>Hegarty Maths Video and Quiz Numbers</u>			
WC 06/09	Line Symmetry and Reflection Recognise line symmetry Reflect a shape in a horizontal or vertical line 1 (shapes touching the line) Reflect a shape in a horizontal or vertical line 2 (shapes not touching the line) Reflect a shape in a diagonal line 1 (shapes touching the line) Reflect a shape in a diagonal line 2 (shapes not touching the line)	827 Line Symmetry 639 Reflections (1) 640 Reflections (2) 641 Reflections (3)			
WC 13/09	Investigate the area of a circle Calculate the area of a circle and parts of a circle without a calculator Calculate the area of a circle and parts of a circle with a calculator Calculate the area of compound shapes	539 Area of a circle (1) 540 Area of a circle (2) 541 Area of a circle (3)			
WC 20/09 WC 27/09	Data Handling Cycle - Set up statistical enquiry - Design and criticise questionnaires - Draw and interpret pictograms, bar charts , vertical line charts and multiple bar charts - Draw and interpret pie charts - Draw and interpret line graphs - Calculate and interpret the range - Identify misleading graphs - Compare distributions	401 Data Collection sheets 399 Surveys and Questionnaires (1) 426 Pictograms 425 Bar Charts and Vertical Line graphs 427 Pie charts (1) 428 Pie Charts (2) 410 Range 414 Range from frequency tables			
WC 04/10	Measures of Location - Calculate the mean, median and mode - Find the mean from ungrouped frequency tables - Find the mean from grouped frequency tables - Identify outliers and compare distributions	405 - 408 Mean 417 Mean from frequency tables (1) 418 Mean from frequency tables (2) 409 Median 404 Mode			
WC 11/10	Straight Line Graphs - Identify vertical and horizontal lines with their equations - Plot lines of y = mx + c - Recap y=mx+c	205 Drawing Line graphs from coordinates 206 Straight line graphs 207 Straight line graphs			
	WC 12/10				
Date	Curriculum Overview	Home Learning <u>Hegarty Maths Video and Quiz Numbers</u>			
WC 01/11	Straight Line Graphs - Calculate the gradient of a line - Find the equation of a line from a graph - Interpret gradient and intercept of real life graphs	201 Gradient of a line segment 202 Gradient of a line segment (negative) 208 Straight line graphs (3) 894 Interpret real life graphs			

	- Write an equation in the form y=mx+c	
	- Explore perpendicular lines	
WC 09/11	Forming and Calving Favortion	170 Colus 2 stan aquations
WC 08/11	Forming and Solving Equation - Revisit and extend to equations and inequalities with	179 Solve 2 step equations 269 Solve inequalities
		184 Solve equations with x on both sides
	unknowns on both sides	164 Solve equations with X on both sides
WC 15/11	 Using different contexts e.g. angles, probability, area 	280 Change the subject of the formula (1 step)
WC 15/11	 Changing the subject of the formula 	
	- Changing the subject of the complex formula	281 Change the subject of the formula (2 step)
WC 22/11	Testing Conjectures	324 Proof and counterexamples
	 Test conjectures in a wide range of contexts e.g. 	
	Sums and Products of odd and even numbers	
	Is a given number in a sequence?	
	Is this shape?	
	Are these lines parallel?	
	Are these lines paraller:	
	What would happen if?	
WC 29/11	Three Dimensional Shapes	829 3D Shapes
VVC 25/11	- Faces, Edges and Vertices	830 3D Shapes
	- Names of prisms and non-prisms	831 Naming the faces of 3D Shapes
WC 06/12	l · · · · · · · · · · · · · · · · · · ·	584 Surface area of cuboids
WC 06/12	- Identifying 2D shapes within 3D shapes	585 Surface Area of prisms
	 Volume and surface area of cuboids and cylinders 	
	- Volume of any prisms	586 Surface Area (multi step)
WC 13/12	 Missing lengths given area and/or volume 	589 Surface Area (multi step) 567 Counting cubes
VVC 13/12	- Explore volumes of cones, spheres, and complex shapes	568 Volume of cuboids
	- Surface area of any prism	570 Volume of prisms
	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	370 Volume of prisms
	Half Term 3	
	Curriculum Overview	Home Learning
Date		Hegarty Maths Video and Quiz Numbers
WC 04/01	Constructions and Congruency	458 - 460 Measuring angles
1410 40 /04		
I WC 10/01		864 - 866 Scale Diagrams
WC 10/01	- Draw and measure angles recap	864 - 866 Scale Diagrams 674 Loci (1)
WC 10/01	 Draw and measure angles recap Construct and interpret scale drawings recap 	
WC 10/01	 Construct and interpret scale drawings recap 	674 Loci (1)
WC 10/01	 Construct and interpret scale drawings recap Locus of distance from a point or straight line 	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4)
WC 10/01	 Construct and interpret scale drawings recap Locus of distance from a point or straight line Locus equidistant from two points 	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector
WC 10/01	 Construct and interpret scale drawings recap Locus of distance from a point or straight line Locus equidistant from two points Construct perpendicular bisectors 	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a
WC 10/01	 Construct and interpret scale drawings recap Locus of distance from a point or straight line Locus equidistant from two points Construct perpendicular bisectors Construct angle bisector 	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line
WC 10/01	 Construct and interpret scale drawings recap Locus of distance from a point or straight line Locus equidistant from two points Construct perpendicular bisectors Construct angle bisector Identify congruent figures 	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a
WC 10/01	 Construct and interpret scale drawings recap Locus of distance from a point or straight line Locus equidistant from two points Construct perpendicular bisectors Construct angle bisector 	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line
WC 10/01	 Construct and interpret scale drawings recap Locus of distance from a point or straight line Locus equidistant from two points Construct perpendicular bisectors Construct angle bisector Identify congruent figures 	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector
WC 10/01	 Construct and interpret scale drawings recap Locus of distance from a point or straight line Locus equidistant from two points Construct perpendicular bisectors Construct angle bisector Identify congruent figures 	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1)
WC 10/01	 Construct and interpret scale drawings recap Locus of distance from a point or straight line Locus equidistant from two points Construct perpendicular bisectors Construct angle bisector Identify congruent figures 	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector
	 Construct and interpret scale drawings recap Locus of distance from a point or straight line Locus equidistant from two points Construct perpendicular bisectors Construct angle bisector Identify congruent figures Explore and identify congruent triangles 	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles
WC 17/01	 Construct and interpret scale drawings recap Locus of distance from a point or straight line Locus equidistant from two points Construct perpendicular bisectors Construct angle bisector Identify congruent figures Explore and identify congruent triangles Numbers	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles
	 Construct and interpret scale drawings recap Locus of distance from a point or straight line Locus equidistant from two points Construct perpendicular bisectors Construct angle bisector Identify congruent figures Explore and identify congruent triangles Numbers HCF and LCM – recap 	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple
WC 17/01	 Construct and interpret scale drawings recap Locus of distance from a point or straight line Locus equidistant from two points Construct perpendicular bisectors Construct angle bisector Identify congruent figures Explore and identify congruent triangles Numbers HCF and LCM – recap Integers, Real and Rational numbers 	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor
WC 17/01	- Construct and interpret scale drawings recap - Locus of distance from a point or straight line - Locus equidistant from two points - Construct perpendicular bisectors - Construct angle bisector - Identify congruent figures - Explore and identify congruent triangles Numbers - HCF and LCM – recap - Integers, Real and Rational numbers - Understand and use surds (H)	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers
WC 17/01	 Construct and interpret scale drawings recap Locus of distance from a point or straight line Locus equidistant from two points Construct perpendicular bisectors Construct angle bisector Identify congruent figures Explore and identify congruent triangles Numbers HCF and LCM – recap Integers, Real and Rational numbers 	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers 42, 43 Multiply and Divide Negative Numbers
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WC 17/01 WC 23/01	- Construct and interpret scale drawings recap - Locus of distance from a point or straight line - Locus equidistant from two points - Construct perpendicular bisectors - Construct angle bisector - Identify congruent figures - Explore and identify congruent triangles Numbers - HCF and LCM – recap - Integers, Real and Rational numbers - Understand and use surds (H) - Work with Directed Number (Negative number) - recap - Work with Fractions – recap	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers 42, 43 Multiply and Divide Negative Numbers 65, 66 Add and Subtract Fractions 68, 70 Multiply and Divide Fractions
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WC 17/01 WC 23/01	- Construct and interpret scale drawings recap - Locus of distance from a point or straight line - Locus equidistant from two points - Construct perpendicular bisectors - Construct angle bisector - Identify congruent figures - Explore and identify congruent triangles Numbers - HCF and LCM – recap - Integers, Real and Rational numbers - Understand and use surds (H) - Work with Directed Number (Negative number) - recap - Work with Fractions – recap Using Percentages - Percentages (recap)	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers 42, 43 Multiply and Divide Negative Numbers 65, 66 Add and Subtract Fractions 68, 70 Multiply and Divide Fractions WhiteRose Maths Videos 83 – Convert Percentages to decimals
WC 17/01 WC 23/01	- Construct and interpret scale drawings recap - Locus of distance from a point or straight line - Locus equidistant from two points - Construct perpendicular bisectors - Construct angle bisector - Identify congruent figures - Explore and identify congruent triangles Numbers - HCF and LCM – recap - Integers, Real and Rational numbers - Understand and use surds (H) - Work with Directed Number (Negative number) - recap - Work with Fractions – recap Using Percentages	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers 42, 43 Multiply and Divide Negative Numbers 65, 66 Add and Subtract Fractions 68, 70 Multiply and Divide Fractions WhiteRose Maths Videos 83 – Convert Percentages to decimals 84 – Percentages of Amounts (Non calc)
WC 17/01 WC 23/01	- Construct and interpret scale drawings recap - Locus of distance from a point or straight line - Locus equidistant from two points - Construct perpendicular bisectors - Construct angle bisector - Identify congruent figures - Explore and identify congruent triangles Numbers - HCF and LCM – recap - Integers, Real and Rational numbers - Understand and use surds (H) - Work with Directed Number (Negative number) - recap - Work with Fractions – recap Using Percentages - Percentages (recap)	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers 42, 43 Multiply and Divide Negative Numbers 65, 66 Add and Subtract Fractions 68, 70 Multiply and Divide Fractions WhiteRose Maths Videos 83 – Convert Percentages to decimals 84 – Percentages of Amounts (Non calc) 87 – Percentages of Amounts (Calc)
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WC 17/01 WC 23/01	- Construct and interpret scale drawings recap - Locus of distance from a point or straight line - Locus equidistant from two points - Construct perpendicular bisectors - Construct angle bisector - Identify congruent figures - Explore and identify congruent triangles Numbers - HCF and LCM – recap - Integers, Real and Rational numbers - Understand and use surds (H) - Work with Directed Number (Negative number) - recap - Work with Fractions – recap Using Percentages - Percentages (recap) - Percentage increase and decrease - Finding percentage change - Using multipliers	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers 42, 43 Multiply and Divide Negative Numbers 65, 66 Add and Subtract Fractions 68, 70 Multiply and Divide Fractions WhiteRose Maths Videos 83 – Convert Percentages to decimals 84 – Percentages of Amounts (Non calc) 87 – Percentage increase or decrease (non-calc) 89 – Percentage/Decimal multipliers
WC 17/01 WC 23/01	- Construct and interpret scale drawings recap - Locus of distance from a point or straight line - Locus equidistant from two points - Construct perpendicular bisectors - Construct angle bisector - Identify congruent figures - Explore and identify congruent triangles Numbers - HCF and LCM – recap - Integers, Real and Rational numbers - Understand and use surds (H) - Work with Directed Number (Negative number) - recap - Work with Fractions – recap Using Percentages - Percentages (recap) - Percentage increase and decrease - Finding percentage change - Using multipliers - Reverse percentages	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers 42, 43 Multiply and Divide Negative Numbers 65, 66 Add and Subtract Fractions 68, 70 Multiply and Divide Fractions WhiteRose Maths Videos 83 – Convert Percentages to decimals 84 – Percentages of Amounts (Non calc) 87 – Percentages of Amounts (Calc) 88 – Percentage increase or decrease (non-calc) 89 – Percentage Increase or decrease
WC 17/01 WC 23/01	- Construct and interpret scale drawings recap - Locus of distance from a point or straight line - Locus equidistant from two points - Construct perpendicular bisectors - Construct angle bisector - Identify congruent figures - Explore and identify congruent triangles Numbers - HCF and LCM – recap - Integers, Real and Rational numbers - Understand and use surds (H) - Work with Directed Number (Negative number) - recap - Work with Fractions – recap Using Percentages - Percentages (recap) - Percentage increase and decrease - Finding percentage change - Using multipliers	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers 42, 43 Multiply and Divide Negative Numbers 65, 66 Add and Subtract Fractions 68, 70 Multiply and Divide Fractions WhiteRose Maths Videos 83 – Convert Percentages to decimals 84 – Percentages of Amounts (Non calc) 87 – Percentages of Amounts (Non calc) 88 – Percentage increase or decrease (non-calc) 89 – Percentage Increase or decrease 91 – Repeated percentage increase or decrease
WC 17/01 WC 23/01	- Construct and interpret scale drawings recap - Locus of distance from a point or straight line - Locus equidistant from two points - Construct perpendicular bisectors - Construct angle bisector - Identify congruent figures - Explore and identify congruent triangles Numbers - HCF and LCM – recap - Integers, Real and Rational numbers - Understand and use surds (H) - Work with Directed Number (Negative number) - recap - Work with Fractions – recap Using Percentages - Percentages (recap) - Percentage increase and decrease - Finding percentage change - Using multipliers - Reverse percentages	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers 42, 43 Multiply and Divide Negative Numbers 65, 66 Add and Subtract Fractions 68, 70 Multiply and Divide Fractions WhiteRose Maths Videos 83 – Convert Percentages to decimals 84 – Percentages of Amounts (Non calc) 87 – Percentages of Amounts (Calc) 88 – Percentage increase or decrease (non-calc) 89 – Percentage Increase or decrease
WC 17/01 WC 23/01	- Construct and interpret scale drawings recap - Locus of distance from a point or straight line - Locus equidistant from two points - Construct perpendicular bisectors - Construct angle bisector - Identify congruent figures - Explore and identify congruent triangles Numbers - HCF and LCM – recap - Integers, Real and Rational numbers - Understand and use surds (H) - Work with Directed Number (Negative number) - recap - Work with Fractions – recap Using Percentages - Percentages (recap) - Percentage increase and decrease - Finding percentage change - Using multipliers - Reverse percentages - Repeated percentage change	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers 42, 43 Multiply and Divide Negative Numbers 65, 66 Add and Subtract Fractions 68, 70 Multiply and Divide Fractions WhiteRose Maths Videos 83 – Convert Percentages to decimals 84 – Percentages of Amounts (Non calc) 87 – Percentages of Amounts (Non calc) 88 – Percentage increase or decrease (non-calc) 89 – Percentage Increase or decrease 91 – Repeated percentage increase or decrease
WC 17/01 WC 23/01	- Construct and interpret scale drawings recap - Locus of distance from a point or straight line - Locus equidistant from two points - Construct perpendicular bisectors - Construct angle bisector - Identify congruent figures - Explore and identify congruent triangles Numbers - HCF and LCM – recap - Integers, Real and Rational numbers - Understand and use surds (H) - Work with Directed Number (Negative number) - recap - Work with Fractions – recap Using Percentages - Percentages (recap) - Percentage increase and decrease - Finding percentage change - Using multipliers - Reverse percentages - Repeated percentage change	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers 42, 43 Multiply and Divide Negative Numbers 65, 66 Add and Subtract Fractions 68, 70 Multiply and Divide Fractions WhiteRose Maths Videos 83 – Convert Percentages to decimals 84 – Percentages of Amounts (Non calc) 87 – Percentages of Amounts (Calc) 88 – Percentage increase or decrease (non-calc) 89 – Percentage Increase or decrease 91 – Repeated percentages
WC 17/01 WC 23/01	- Construct and interpret scale drawings recap - Locus of distance from a point or straight line - Locus equidistant from two points - Construct perpendicular bisectors - Construct angle bisector - Identify congruent figures - Explore and identify congruent triangles Numbers - HCF and LCM – recap - Integers, Real and Rational numbers - Understand and use surds (H) - Work with Directed Number (Negative number) - recap - Work with Fractions – recap Using Percentages - Percentages (recap) - Percentage increase and decrease - Finding percentage change - Using multipliers - Reverse percentages - Repeated percentage change	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers 42, 43 Multiply and Divide Negative Numbers 65, 66 Add and Subtract Fractions 68, 70 Multiply and Divide Fractions WhiteRose Maths Videos 83 – Convert Percentages to decimals 84 – Percentages of Amounts (Non calc) 87 – Percentages of Amounts (Non calc) 88 – Percentage increase or decrease (non-calc) 89 – Percentage Increase or decrease 91 – Repeated percentages Home Learning
WC 17/01 WC 23/01 WC 31/01	- Construct and interpret scale drawings recap - Locus of distance from a point or straight line - Locus equidistant from two points - Construct perpendicular bisectors - Construct angle bisector - Identify congruent figures - Explore and identify congruent triangles Numbers - HCF and LCM – recap - Integers, Real and Rational numbers - Understand and use surds (H) - Work with Directed Number (Negative number) - recap - Work with Fractions – recap Using Percentages - Percentages (recap) - Percentage increase and decrease - Finding percentage change - Using multipliers - Reverse percentages - Repeated percentage change	674 Loci (1) 675 Loci (2) 676 Loci (3) 677 Loci (4) 660 Construct a perpendicular bisector 662 Construct a perpendicular from a point to a line 663 Construct a perpendicular from a point on a line 661 Construct an angle bisector 680 Congruence (1) 682 Congruent triangles WhiteRose Maths videos 34, 35, 36 Lowest Common Multiple 31, 32 Highest Common Factor 39, 40 Add and Subtract Negative Numbers 42, 43 Multiply and Divide Negative Numbers 65, 66 Add and Subtract Fractions 68, 70 Multiply and Divide Fractions WhiteRose Maths Videos 83 – Convert Percentages to decimals 84 – Percentages of Amounts (Non calc) 87 – Percentages of Amounts (Calc) 88 – Percentage increase or decrease (non-calc) 89 – Percentage Increase or decrease 91 – Repeated percentages

	- Wages and taxes	756 – Income and rates of pay (2)
	- Bills and bank statements	757 – Financial Statements
WC 28/02	- Interest	758 – Financial Statements (2)
VVC 28/02	- Unit pricing (best buys)	93 – Simple Interest 92 – Compound Interest
		95 – Depreciation
		763 – Best Buys
WC 07/03	Deduction	487 Angles in a triangle (3)
, , , ,	 Solve angle problems using chains of reasoning. 	814 Angles around a point (3)
	- Angles problems with algebra	565 Angles in polygons using algebra
		303 Aligles III polygolis usilig algebra
	- conjectures with angles and shapes	
	- Link constructions and geometrical shapes	
WC 14/03	Rotation and Translation	828 – Rotational Symmetry
WC 21/03	- Identifying the order of rotational symmetry	648 – Rotations (1)
	- Rotating shapes	649 – Rotations (2) 637 – Translations (1)
	Notating shapes	638 – Translations (2)
	- Translating points and shapes	656 – Combined transformations (1)
	- Combined transformations	
WC 28/03	Pythagoras' Theorem	497 – Pythagoras' Theorem (Proof)
WC 20/U3	- Identifying the hypotenuse of a right-angled triangle	498 – Pythagoras (longer side)
	Determining whether a triangle is right angled	499 – Pythagoras (ionger side)
	- Calculating missing sides in a right-angled triangle	, and a second control of the second control
	Half Term 5	
Date	Curriculum Overview	Home Learning
		<u>Hegarty Maths Video and Quiz Numbers</u>
	Pythagoras' Theorem Continued	FO1 Duthagaras (applied)
WC 40/04	- Calculating missing sides in a right-angled triangle	501 – Pythagoras (applied) 502 – Pythagoras (applied 2)
WC 19/04	- Exploring proofs of Pythagoras' theorem	505 – Pythagoras (multi-step)
	- Using Pythagoras' theorem in 3D shapes	oos i yaaagetas (iiisiii step)
W/C 2C/24	E 1	310 5 1 1 11
W// 76/04	I Fnlargement and Similarity	I 642 = Enlargements (1)
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WC 02/05 WC 09/05 WC 16/05 WC 23/05	- Enlarge shapes by a positive scale factor, including from a given point - Calculate the lengths of missing sides in similar shapes - Enlarge shapes by negative scale factor - Similar triangles Ratio and Proportion - Solve problems with direct proportion recap - Direct proportion and conversion graphs - Solve problems with inverse proportion - Graphs of inverse relationships - Solve ratio problems given the whole or a part recap - Solve best buys problems - Solve problems involving ratio and algebra Rates - Solve speed, distance and time problems - Use distance-time graphs - Solve problems with density, mass and volume Half Term 6 Curriculum Overview	643 – Enlargements (2) 614 – Similar Shapes (problem solving) 646 – Enlargements (5) negative scale factor 611 – Similar triangles 339 Direct Proportion (1) 340 Direct Proportion (2) 712 Conversion graphs (1) 713 Conversion Graphs (2) 342 Inverse Proportion 332 - 334 Share into a given Ratio 763 - 765 Best Buys 335 Harder problems involving ratio 336 Harder problems involving ratio (2) 716 Speed (1) 719 Speed (4) 721 Speed (6) 874 Distance time graphs (1) 875 Distance time graphs (2) 725 Density (1) 728 Density (4) 729 Density (5) Home Learning Hegarty Maths Video and Quiz Numbers 899 Sketch graphs for water flows (1) 900 Sketch graphs for water flows (2)
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