

Term	Topic(s)	Assessed work	Additional details
1 a 7 weeks 28_lessons	<p>Geometry and measures: Right-angled triangles</p> <ul style="list-style-type: none"> Know what Pythagoras' theorem is calculate the length of the hypotenuse in a right-angled triangle. calculate the length of a shorter side in a right-angled triangle Solve problems using Pythagoras' theorem. Use Pythagoras' theorem in isosceles triangles. Use the sine rule and the cosine rule to find sides and angles in any triangle. define, understand and use the three trigonometric ratios. use trigonometric ratios to calculate a length in a right-angled triangle. use the trigonometric ratios to calculate an angle. work out and remember trigonometric values for angles of 30°, 45°, 60° and 90°. solve practical problems using trigonometry solve problems using an angle of elevation or an angle of depression. solve bearing problems using trigonometry. use trigonometry to solve problems involving isosceles triangles. <p>Algebra: Linear equations</p> <ul style="list-style-type: none"> "solve linear equations such as $3x - 1 = 11$ where the variable only appears on one side " use inverse operations and inverse flow diagrams Solve equations where the variable appears on both sides of the equals sign. solve equations by balancing solve equations in which the variable (the letter) appears in the numerator of a fraction. solve equations where you have to first expand brackets. solve equations where the variable appears on both sides of the equals sign. <p>Geometry and measures: Congruency and similarity</p> <ul style="list-style-type: none"> demonstrate that two triangles are congruent. recognise similarity in any two shapes Show that two shapes are similar work out the scale factor between similar shapes. 	<p>White Rose (Flashback and End of block assessment) Diagnostic Quizzes Classwork Homework</p>	<p>Revisit:</p> <ul style="list-style-type: none"> -Basic Number: Prime factors, -- -Multiples and factors -HCF and LCM -Sequences -Ratio -Angles Facts including angles in polygons -Constructions and loci -expanding brackets
1b 7 weeks 28_lessons	<p>Algebra: Simultaneous equations and linear inequalities</p> <ul style="list-style-type: none"> solve simultaneous linear equations in two variables using the elimination method. solve simultaneous linear equations in two variables using the substitution method. solve simultaneous linear equations by balancing coefficients. solve problems using simultaneous linear equations. solve problems using simultaneous linear equations. solve a simple linear inequality and represent it on a number line. <p>Angles and Bearings</p> <ul style="list-style-type: none"> calculate the exterior angles and the interior angles of a regular polygon. calculate angles in parallel lines. use a bearing to specify a direction. <p>Geometry and measures: Volumes and surface areas of prisms, Curved shapes and pyramids</p> <ul style="list-style-type: none"> calculate the volume and surface area of a prism. calculate the volume and surface area of a cylinder. "calculate the length of an arc calculate the area and angle of a sector." calculate the volume and surface area of a pyramid. calculate the volume and surface area of a cone. calculate the volume and surface area of a sphere. . 	<p>White Rose (Flashback and End of block assessment) Diagnostic Quizzes Classwork Homework</p>	<p>Revisit:</p> <ul style="list-style-type: none"> - Algebraic manipulation (factorising) -Perimeter and area of 2 D shape including circles -Surface area and volume of 3D shapes -Linear graphs -Transformation (Enlargements) -Averages -Transformations (reflection, Rotation, translation)
2a 6 weeks 24_lessons	<p>Vector Geometry</p> <ul style="list-style-type: none"> Understand and represent vectors Use and read vector notation Draw and understand vectors multiplied by a scale Draw and understand addition of vectors <p>Ratio and proportion and rates of change: Percentages and compound measures.</p> <ul style="list-style-type: none"> convert percentages to fractions and decimals and vice versa calculate a percentage of a quantity increase and decrease quantities by a percentage. express one quantity as a percentage of another. Work out percentage change. recognise and solve problems involving the compound measures of rates of pay, density and pressure. calculate simple interest 	<p>White Rose (Flashback and End of block assessment) Diagnostic Quizzes Classwork Homework</p>	<p>Revisit:</p> <ul style="list-style-type: none"> -Solve linear equations -Area of combined shapes -add and subtract decimals -Multiply and divide decimals -Circle area and perimeter -Simultaneous equations

	<ul style="list-style-type: none"> calculate compound interest solve problems involving repeated percentage change. calculate the original amount, given the final amount, after a known percentage increase or decrease. solve problems in which two variables have a directly proportional relationship (direct variation) work out the constant of proportionality recognise graphs that show direct variation. solve problems in which two variables have an inversely proportional relationship (inverse variation) work out the constant of proportionality <p>Probability and events</p> <ul style="list-style-type: none"> calculate experimental probabilities and relative frequencies from experiments recognise different methods for estimating probabilities. predict the likely number of successful outcomes, given the number of trials and the probability of any one outcome. apply systematic listing and counting strategies to identify all outcomes for a variety of problems. 		
2b 6 weeks 24_lessons	<p>Probability: Combined events</p> <ul style="list-style-type: none"> Use powers (also known as indices). read two-way tables and use them to work out probabilities. use Venn diagrams to solve probability questions. understand frequency tree diagrams and probability tree diagrams use probability tree diagrams to work out the probabilities involved in combined events <p>Statistics: More complex statistics</p> <ul style="list-style-type: none"> obtain a random sample from a population collect unbiased and reliable data for a sample. Find and use the relationship between negative powers and roots. draw and interpret pie charts. draw, interpret and use scatter diagrams draw and use a line of best fit. identify the modal group calculate an estimate of the mean from a grouped table. 	White Rose (Flashback and End of block assessment) Diagnostic Quizzes Classwork Homework	Revisit: -Similar shapes -Trigonometry -Pythagoras -Solving inequalities -Adding and subtracting fractions
3a 6 weeks 24_lessons	<p>Number: Powers and standard form</p> <ul style="list-style-type: none"> write a number as a power of another number use powers (also known as indices) multiply and divide by powers of 10 use rules for multiplying and dividing powers write a number in standard form calculate with numbers in standard form. <p>Algebra: Number and sequences</p> <ul style="list-style-type: none"> recognise patterns in number sequences. recognise how number sequences are built up generate sequences, given the nth term. find the nth term of a linear sequence. recognise and continue some special number sequences understand how prime, odd and even numbers interact in addition, subtraction and multiplication problems. find the nth term from practical problems involving sequences. 	White Rose (Flashback and End of block assessment) Diagnostic Quizzes Classwork Homework	Revisit -Multiply and divide fractions -Factorising single bracket -Factorising Quadratics -Area of sectors -Length of arcs
3b 7 weeks 28 lessons	<ul style="list-style-type: none"> Revision Examinations Recap from Examination Work experience curriculum enrichment week Recap from examination 	End of year exams Curriculum enrichment week	Revisit