



10	Knowledge	Tier 2 Vocabulary	Skills	Assessment
<p>Autumn 1</p> <ul style="list-style-type: none"> Number Properties 1 Approximations Shape 	<ul style="list-style-type: none"> Applying four operations with fractions Ordering numbers, including fractions Working with Indices Bounds and rounding error Expanding knowledge of shape properties Composite shapes 	Operation Multiplication Addition Subtraction Division Approximation Estimate Parallel	Development of Numerical fluency skills ensuring this is extended to fractions. Understand the notation of	<ul style="list-style-type: none"> Mixed GCSE Exam Questions
<p>Autumn 2</p> <ul style="list-style-type: none"> Fractions, Decimals, Percentages Number Properties 2 Algebra - Expressions 	<ul style="list-style-type: none"> Recurring Decimals Percentage change and interest Indices and standard form calculations Algebraic Manipulation Using and manipulating formulae Functions 	Proportion Numerical Solution Composite Value Radius Unknown	and be able to work with indices and bounds. Use algebra as a tool to solve problems.	<ul style="list-style-type: none"> Mixed GCSE Exam Questions
<p>Spring 1</p> <ul style="list-style-type: none"> Collecting and Interpreting Data Angles Transformations and Constructions Pythagoras and Trigonometry 	<ul style="list-style-type: none"> Types of data Working with averages Angle properties of shapes Transformations of shapes Pythagoras Trigonometry Vectors Constructions 	Total Average Frequency Angle Sum Bisect Enlarge Reflection Probability	Understanding how averages can be used to interpret data. Apply a range of geometry skills to solve problems.	<ul style="list-style-type: none"> Mixed GCSE Exam Questions
<p>Spring 2</p> <ul style="list-style-type: none"> Ratio and Scale Sequences Probability 	<ul style="list-style-type: none"> Similar shapes Bearings Nth term rules Venn diagrams and frequency trees 	Similar Evaluate Pattern Sequence	Use diagrams to find probabilities.	<ul style="list-style-type: none"> Mixed GCSE Exam Questions
<p>Summer 1</p> <ul style="list-style-type: none"> Graphing and solving Equations Probability Representing and interpreting data 	<ul style="list-style-type: none"> Forming and solving equations Equation of a straight line Gradients of lines Types of graphs Statistical graphs and charts 	Variable Equal Solution Gradient Parallel Perpendicular	To use graphs to solve equations and link this to their algebraic solutions.	<ul style="list-style-type: none"> Mixed GCSE Exam Questions
<p>Summer 2</p> <ul style="list-style-type: none"> Proportion Circle properties 	<ul style="list-style-type: none"> Sharing in a given ratio Using proportion in problem solving Area and circumference of a circle 3D shapes related to circles 	Vertical Horizontal Equal Linear Volume	To understand the properties of circles and apply them to problems.	<ul style="list-style-type: none"> Mock GCSE Exam Practice



11	Knowledge	Tier 2 Vocabulary	Skills	Assessment
<p>Autumn 1</p> <ul style="list-style-type: none"> Algebra Number Pythagoras and Trigonometry 	<ul style="list-style-type: none"> How to approach questions with equations in the exam Working with indices, including standard form and surds for higher Problem solving with Pythagoras and trigonometry 	Exact Solve Find Describe Evaluate Interpret Explain Angle Correlation	Fluency with indices, including surds for higher tier. Analysis of graphs and charts to interpret data. Application of Pythagoras and trigonometry.	<ul style="list-style-type: none"> October GCSE Mocks
<p>Autumn 2</p> <ul style="list-style-type: none"> Geometry Data 	<ul style="list-style-type: none"> Geometry problem solving including exact values Averages in an exam context Look into exam style data questions including graphs 	Average Common Factor Sketch Plot		<ul style="list-style-type: none"> December GCSE Mocks
<p>Spring 1</p> <ul style="list-style-type: none"> Probability Ratio and Proportion Problem Solving 	<ul style="list-style-type: none"> How to approach different probability questions Answering permutations questions Ratio and proportion exam style practice Problem solving for identified areas of weakness 	Chance Proportion Find Describe Evaluate Interpret Explain	Applying mathematical knowledge to exam style problems.	<ul style="list-style-type: none"> Mixed GCSE Exam Questions
<p>Spring 2</p> <ul style="list-style-type: none"> Practice paper schedule begins 	<ul style="list-style-type: none"> Exam papers in class and for homework GCSE paper style quizzes Demonstrations of how to answer exam questions 			<ul style="list-style-type: none"> March GCSE Mocks
<p>Summer 1</p> <ul style="list-style-type: none"> Practice paper schedule continues 	<ul style="list-style-type: none"> Exam papers in class and for homework GCSE paper style quizzes Demonstrations of how to answer exam questions 			<ul style="list-style-type: none"> Mixed GCSE Exam Questions
<p>Summer 2</p> <ul style="list-style-type: none"> Final exam preparations and exams 				<ul style="list-style-type: none"> Summer Exams