

Year 11

Subject: Maths

Half term	Objectives/ enquiry questions	Content	Skills	Assessment
1	Secure number skills used across whole of GCSE Maths	Number Types Rounding BIDMAS Fractions Decimals and Percentages	<ul style="list-style-type: none"> Know, name and identify different number types Use different number types to make comparisons, judgments and proofs as well as other number types Round numbers to differing degrees of accuracy Develop estimation skills through sensible rounding and interpret approach and answers Accurately use the rules of operations Recognise and Identify Fractions Convert between F, D and P of all types Calculate with full range of fractions and decimals Solve full range of percentage-based problems – tier specific 	Number Assessment 1 (Week 5/6)
2	Extend number skills Interrogate and interpret real world problems through Statistics	Standard Form Surds Ratio Proportionality Averages Handling Data	<ul style="list-style-type: none"> Calculate with powers of 10 without a calculator Convert and calculate in SIF with and without a calculator. Be able to read and solve problems with SIF in various forms (H) Simplify and share in basic and complex ratio forms Understand rules of SURDS (H), simplify (F), rationalise, calculate, and solve equations. Use SURDS for trig and Pythagoras (H) Best buy and unit cost Compare and share in more complex ratios forms (H) Direct and Inverse proportion problems (H) Know how to calculate and evaluate all types of average from all formats. Solve average problems 	FDP Assessment 1 (Week 11)

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			<ul style="list-style-type: none"> Use statistical diagrams to interpret and present data (bar chart to histograms – F to H) 	
3	Develop Algebraic communication skills	<p>Indices BIDMAS</p> <p>Expressions</p> <p>Equations Inequalities</p>	<ul style="list-style-type: none"> Basic Rules of Indices (F) prior to Algebra Module Index Laws extended to fractions raised to a negative fractional power (H and H+) BIDMAS in the context of algebraic conventions and substitution with and without a calculator Making expressions from diagrams and text. Simplifying and collecting like terms Developing tools of Algebra – factorising and expanding brackets to degree appropriate for class Make and solve equations Linear Quadratic F. With formula and CTS (H) Simultaneous F With quadratic component (H) Make, solve and depict Inequalities on diagrams and graphs Functions (H+) 	<p>HANDLING DATA AND AVERAGES Assessment</p> <p>Week before Spring Half Term</p>
4	<p>Following and describing numerical and algebraic patterns</p> <p>Modelling and interpreting real world and sequential information</p>	<p>Sequences</p> <p>Graphing</p>	<ul style="list-style-type: none"> Iterative processes (H) Describing and continuing diagrammatic and numeric sequences Nth term for linear quadratic and geometric sequences Checking sequential relationships Reading and drawing real life graphs Reading drawing and interpreting conversion graphs DST Graphs $y = mx + c$ graphs (parallel, perpendicular, magnitude, midpoint – Grade dependent) Harder graphs, draw, recognise, sketch, keys facts and terms, use for solving Trigonometric Graphs H+ Introduction to graphical transformations (H+) 	ALGEBRA I Language Conventions and Expressions Skills

Commented [MP1]:

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5	Understanding language and form of exploring likelihood of events Know and apply geometric rules of angles Know and apply geometric rules of shapes and solids		•	ALGEBRA 2 Solving Equations and Sequences
6			•	