



### KS1 and KS2 (Expected)

- Understanding of place value and the number system
- Fluency in written calculations for all four operations
  - Working with fractions, decimals, percentages and ratio to develop connections.
- Application of arithmetic to geometrical problems.
- Introduction to the language of algebra to solve problems.

<b>Autumn 1</b>	Baseline Tests / CATS Consolidate & Strengthen	Applications of Addition/ Subtraction Proportional Reasoning	<b>Spring 1</b>	Targeted Revisiting	Place Value, Rounding and Estimation Angle Properties Manipulating Fractions	<b>Summer 1</b>	Targeted Revisiting Curriculum Assessment	Algebraic Notation Algebraic Manipulation Solving Linear Equations
<b>Autumn 2</b>	Curriculum Assessment	Fractions, Decimals, Percentages Ratio and Proportion Directed Number Properties of Number (Factors)	<b>Spring 2</b>	Targeted Revisiting	Manipulating Fractions Calculating with Fractions and Percentages Area	<b>Summer 2</b>	Targeted Revisiting	Solving Linear Equations Pythagoras' Theorem Sequences Probability



Y7

Through varied and frequent practice students will develop conceptual understanding, build rapid recall and application of their knowledge.

### Fluency, Reasoning Mathematically and Problem Solving



<b>Autumn 1</b>	Curriculum Assessment Targeted Revisiting	Calculating with fractions Area and surface area	<b>Summer 1</b>	Curriculum Assessment	Rounding / Estimation Analysing Data** Interior and exterior angles	<b>Spring 1</b>	Targeted Revisiting	Algebraic Notation Algebraic Manipulation Area Forming and solving linear equations	<b>Autumn 1</b>
<b>Autumn 2</b>	Targeted Revisiting	Sets and Venn diagrams Coordinates and Straight Line Graphs (including Reflections) Rotation	<b>Summer 2</b>	Targeted Revisiting	Fractions, decimals and percentages Percentages (Non-Calc) Expressions and formulae	<b>Spring 2</b>	Targeted Revisiting	Pythagoras' theorem** Sequences** Probability**	<b>Autumn 2</b>



Y8

Students will continue to develop their application of knowledge with increasingly more complex problems over time, including using mathematical language to justify, generalise and reason.

### Fluency, Reasoning Mathematically and Problem Solving



<b>Autumn 1</b>	Curriculum Assessment Targeted Revisiting	Calculating with Fractions** Interior and exterior angles** Angles in Parallel Lines Laws of indices	<b>Spring 1</b>	Curriculum Assessment Targeted Revisiting	Recurring decimals Pythagoras' theorem** Right-angled triangles (Trigonometry) Column Vectors and Translation	<b>Summer 1</b>	Curriculum Assessment Targeted Revisiting	Volume of 3D Shapes Coordinates and Straight Line Graphs** Reflection
<b>Autumn 2</b>	Curriculum Assessment Financial Literacy	Standard Form Percentages Probability** Circumference and arc length	<b>Spring 2</b>	Targeted Revisiting	Sequences** Working with Inequalities Limits of Accuracy	<b>Summer 2</b>	Curriculum Assessment Targeted Revisiting	Functions Manipulating Quadratics Representing Bivariate Data Measuring and Construction**

Y9

Students will apply their mathematics in a variety of routine and non-routine problems with increasing sophistication. Students will develop their ability to break down problems into a series of smaller steps and prioritise in multi-step problems.

### Fluency, Reasoning Mathematically and Problem Solving



<b>Autumn 1</b>	Targeted Revisiting	Speed, Distance and Time Non-Linear Graphs Simultaneous Equations	<b>Summer 1</b>	Progress Assessment Targeted Revisiting	Manipulating Quadratics Indices and Roots Linear Graphs Representing Bivariate	<b>Spring 1</b>	Targeted Revisiting	Ratio and Fractions Enlargement and Similarity Angles in Parallel Lines	<b>Autumn 1</b>
<b>Autumn 2</b>	Mock Examinations	Simultaneous Equations (cont.) Statistical Measures Statistical Enquiry Cycle.	<b>Summer 2</b>	Mock Examinations	Right-Angled Triangles (Trigonometry) Sequences Probability	<b>Spring 2</b>	Progress Assessment	Percentages and Interest Types of Number Equations and Inequalities Working with Circles	<b>Autumn 2</b>

Y10

Students will target key gaps in their knowledge and application. Students will further enhance their mathematical understanding with a heightened focus on concepts in context in addition to building their mathematical reasoning skills.

<b>Autumn 1</b>	Targeted Revisiting	Using Graphs – SDT Equations of Linear Graphs	<b>Spring 1</b>	Mock Examination	Right-Angled Triangles (Trigonometry) Solving Quadratics Simultaneous Equations	<b>Summer</b>	GCSE Examination Preparation
<b>Autumn 2</b>	Progress Assessment	Equations of Linear Graphs (Cont.) 3D Shapes (Surface Area and Volume) Non-Linear Graphs Enlargement and Similarity	<b>Spring 2</b>	Progress Assessment	Statistical Enquiry Cycle (2) Constructions/Congruency Angles and Bearings Vectors	<b>Summer</b>	Wigan & Leigh College

Y11

**winstanley A-Levels college**  
Economics, Computer Science, Maths  
Further Maths (SJR/WC)  
Core Maths - Level 3 (SJR/WC)

**Professional Pathways (WC)**  
Business and Accountancy (Diploma/A-Level)

**Professional Honours Programme (W&L)**  
Business and Finance, Engineering  
Applied Medical, Computer Science

## Golborne HIGH SCHOOL



Lifelong Confidence

...WHERE PUPILS BELIEVE THEY CAN achieve



### KS1 and KS2 (Expected)

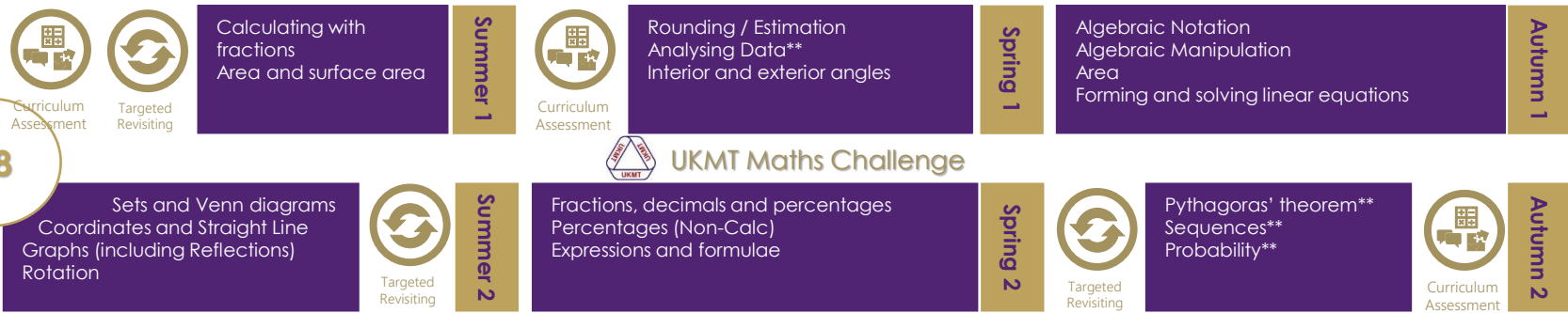
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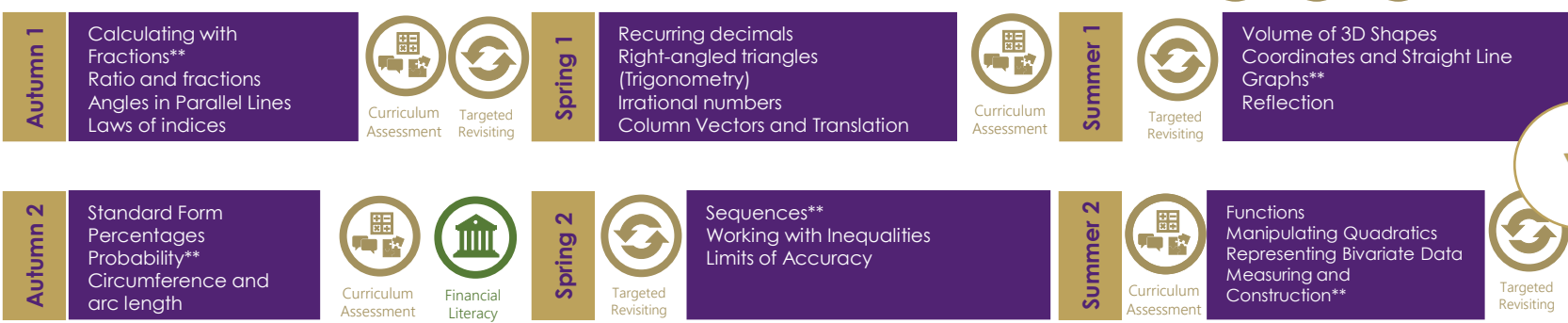
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Y8

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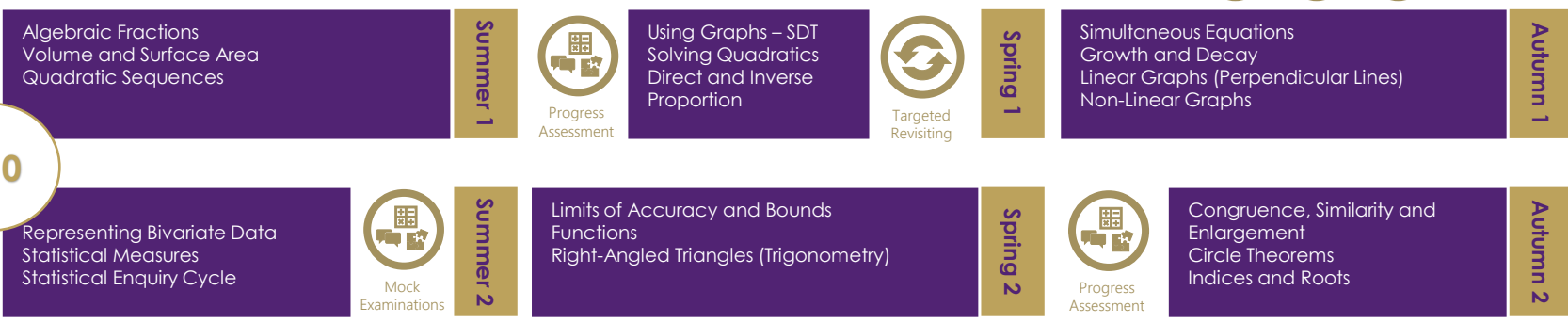
### Fluency, Reasoning Mathematically and Problem Solving



Y9

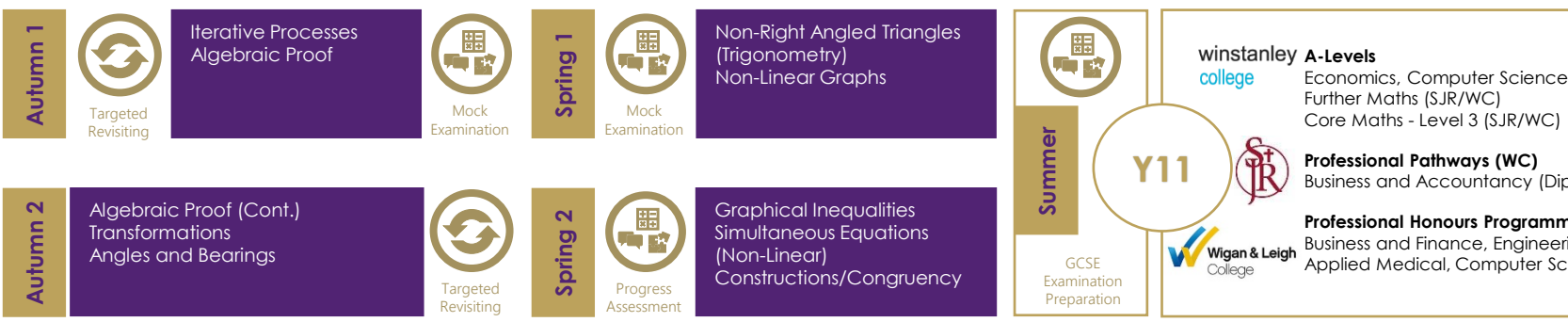
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Y11

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