

### Maths KS4

Pupils in KS4 follow the Pearson Edexcel Level 1/Level 2 GCSE (9-1) in Mathematics (1MA1). The course provides a strong foundation for further academic and vocational study and for employment, to give students the appropriate mathematical skills, knowledge and understanding to help them progress to a full range of courses in further and higher education. There are also the functional Skills Level 1 and Level 2 qualifications, which run alongside the GCSE syllabus and these provide an entry point into college diplomas with assessments taken at specific time slots throughout the academic year.

The final assessment for the Edexcel GCSE course consists of 3 papers each of which is one and a half hours long. The first paper, which assessed in May, is a non-calculator paper and papers two and three, which are assessed in June, are calculator papers.

### Year 10 Level 1 Maths Functional Skills

A learner should be able to:

- understand and use numbers with one significant figure in practical contexts
- describe the properties of size and measure, including length, width, height and weight, and make simple comparisons
  - describe position
  - recognise and select coins and notes
  - recognise and name common 2-D and 3-D shapes
- sort and classify objects practically using a single criterion

### Year 10 Edexcel GCSE (White Rose Mastery). Autumn-Developing Algebra

<b>Similarity</b>	<b>Developing algebra</b>
Trigonometry. Congruence, similarity and enlargement.	Equations and inequalities, representing solutions. Simultaneous equations.
Spring	
<b>Geometry</b>	<b>Proportions and proportional change</b>
Angles and Bearings-vectors. Working with circles.	Ratio & fractions, percentages and interest. Probability.
Summer	
<b>Delving into data</b>	<b>Using number</b>
Collecting, representing and interpreting data.	Non- calculator methods Indices and square roots. Types of number and sequences.

### Year 11 Level 2 Maths Functional Skills

A learner should be able to:

- understand and use whole numbers with up to two significant figures
  - understand and use addition/subtraction in practical situations
    - use doubling and halving in practical situations
  - recognise and use familiar measures, including time and money
- recognise sequences of numbers, including odd and even numbers
  - use simple scales and measure to the nearest labelled division
    - know properties of simple 2-D and 3-D shapes
    - extract information from simple lists

### Year 11 Edexcel GCSE (White Rose Mastery). Autumn

<b>Graphs</b>	<b>Algebra</b>
Gradients and lines, non- linear graphs, using graphs.	Expanding and factorising, changing the subject, functions.
Spring	
<b>Reasoning</b>	<b>Revision and communication</b>
Multiplicative, geometric, algebraic.	Transformations and constructions, listing and describing, show that.....

