Craig Ormerod Associates LTD

Subject Overview: Maths (KS3)

The aim of KS3 Maths is to help pupils achieve the following goals:

- To achieve fluency in the fundamentals of mathematics
- To be able to reason using sound mathematical principles
- To problem solve using applied mathematics

These aims are achieved through varied and frequent practice of key skills, which will allow pupils to recall knowledge rapidly and accurately. The curriculum challenges pupils to overcome problems of increasing complexity, developing personal qualities such as resilience and perseverance in the process.

Below is an outline of the key topics covered during KS3.

YEAR 7

TERM 1

Autumn 1:

- Sequences
- Algebraic Thinking

Autumn 2:

- Place Value
- FDP

TERM 2

Spring 1:

- Four operations

Spring 2:

- Directed Number
- Two-Step Equations
- Fractions

TERM 3

Summer 1:

- Geometry

Summer 2:

- Number

- Sets
- Probability

YEAR 8

TERM 1

Autumn 1:

- Ratio
- Proportion
- Fractions

Autumn 2:

- Straight Line Graphs
- Representing Data
- Probability

TERM 2

Spring 1:

- Forming and Solving Equations
- Sequences
- Index Laws

Spring 2:

- Percentages
- Standard Form
- Metric Measurement

TERM 3

Summer 1:

- Angles in Parallel Lines
- Polygons
- Area of Compound Shapes

Summer 2:

- Statistical Diagrams
- Averages

YEAR 9

TERM 1

Autumn 1:

- Straight Line Graphs

- Forming and Solving Equations
- Inequalities

Autumn 2:

- Volume and Surface Area
- 3-D Shapes
- Constructions
- Loci

TERM 2

Spring 1:

- Fractions
- Surds
- Percentage Problems
- Money

Spring 2:

- Algebraic Angles
- Transformations
- Pythagoras

TERM 3

Summer 1:

- Enlargement
- Proportion
- Compound Measurements

Summer 2:

- Probability
- Graphs of Quadratic Functions
- Representing Inequalities