

Learner Journey: Maths



Money Management Understanding of Time Job Opportunities Study Maths at College

Beyond Dawn House School

Personal Development Opportunities:

Employability	Shopping	Budgeting	Café/shop visits	Enterprise
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GCSE Entry Level AIM Awards Functional Skills

Qualifications:

The Maths Journey at Dawn House School...

KS5
D13-D16

Topics: Number Skills, Algebra, Geometry, Measurement, Statistics/Probability, Problem Solving/Reasoning, Ratio/Proportion

- Understanding and application of place value, including decimals and negative numbers.
- Developing fluency in mental and written arithmetic.
- Simplifying expressions, solving equations, and inequalities.
- Investigating properties of 2D and 3D shapes.
- Understanding and applying ratio and proportion in a variety of contexts.
- Collecting, organizing, and analysing data using various statistical methods and representations.
- Understanding probability concepts.
- Using and converting between metric and imperial units of measurement.
- Calculating perimeter, area, surface area and volume.
- Drawing, interpreting, and analysing graphs and charts.
- Applying maths concepts to solve real-life problems.

KS4
D11-D13

Topics: Number Skills, Decimals, Percentages, Fractions, Measurement, Geometry, Data, Probability, Patterns, Reasoning

- Understanding and applying place value concepts up to at least 10,000.
- Recognise and compare numbers in various forms.
- Mastering multiplication and division facts up to 12x12.
- Converting between fractions, decimals and percentages
- Describing properties of 2D and 3D shapes.
- Measuring length, weight, capacity and angles.
- Measuring length, weight, capacity and time.
- Solving problems involving time, speed, distance and temperature.
- Applying concepts of ratio and proportion.
- Collecting, organising and interpreting data.
- Justifying reasoning using mathematical language.
- Applying a range of problem-solving strategies.

KS3
D9-D11

Topics: Number Operations, Fractions and Decimals, Measurement, Geometry, Data, Problem Solving, Life Skills

- Understanding and applying place value concepts up to at least 1,000.
- Adding and subtracting two-digit and three-digit numbers mentally and using written methods.
- Developing fluency in multiplication and division facts up to 12x12.
- Telling time to the nearest five minutes.
- Solving problems involving money.
- Recognizing, comparing, and ordering fractions.
- Measuring length, weight, capacity and time.
- Identifying and describing properties of 2D shapes.
- Solving problems involving money and time.
- Collecting and organising data using tables and charts.
- Rounding to the nearest 10, 100 or whole number.
- Using and understanding mathematical vocabulary.
- Using a calculator to perform calculations.

KS1/2
D1-D9

Topics: Place Value, Addition, Subtraction, Shape, Multiplication, Division, Time, Money, Measurement,

- Identifying and recognizing numbers from 0 to 20
- Counting objects accurately up to at least 20
- Understanding addition as putting together and subtraction as taking away.
- Identifying and naming common 2D shapes.
- Recognizing and creating simple repeating patterns using shapes, colors, or objects.
- Understanding and using positional language.
- Recognizing and creating simple repeating patterns using shapes, colors, or objects.
- Exploring concepts of size, length, weight and capacity
- Understanding basic concepts of time.
- Solving simple mathematical problems using concrete objects, drawings, and basic mathematical language.
- Collecting and organizing data in simple graphs/charts
- Developing vocabulary related to mathematics.