



Maths

At Oak Lodge School we aim to educate, inspire and arm the students with the tools necessary to face the world with confidence. The Mathematics Department aims to deliver a practical and comprehensive Curriculum by providing our students with the knowledge required to succeed.

KS3 Curriculum

Our students follow the National Curriculum covering various topics from measuring capacities to simplifying fractions. In term one, the students cover range of topics that provide a toolkit of techniques and methods that is practical and necessary in their everyday life. Term 2 and 3 aim to consolidate and build upon the skills learned during the first term. Each class is individually tailored towards the students' specific needs. The Mathematics department is trialing the use of a **CPA** approach. Students learn through the use of **concrete** materials. This can include the students themselves as the aim is to model mathematics as close to real life situations as possible. Students then progress through to representing mathematics using **pictorial** representations as a way of representing information. Thirdly, **abstraction** is made using symbolic representation of the problem. Not all students will need all three stages, but the approach is always done using CPA to enable a better understanding of problems leading to better problem solving.

	Term 1 First Half	Term 1 Second Half	Term 2 First Half	Term 2 Second Half	Term 3 First Half	Term 3 Second Half
Topic	<ul style="list-style-type: none"> Number and Place Value 1 Addition and Subtraction Properties of Shapes 1 	<ul style="list-style-type: none"> Measurements 1 Multiplication and Division 1 	<ul style="list-style-type: none"> Statistics Fractions 1 	<ul style="list-style-type: none"> Properties of Shapes 2 Positions and Directions 	<ul style="list-style-type: none"> Number and Place Value 2 Measurements 2 	<ul style="list-style-type: none"> Fractions 2 Multiplication and Division 2

KS4 Curriculum

Our students following the National Curriculum covering various topics from capacities to simplifying fractions. The order of the teaching of topics is not as prescribed as in KS3. Students have a varying background of knowledge in different topics. The teacher will personalize their plan for the class but will over the length of the course cover all the required topics. Accreditation for the students include Functional Skills Mathematics and GCSE. Functional Skills Examinations assesses the students' ability to solve mathematical problems applied to real life situations. Entry level 1, 2 and 3 covers the basic principles of mathematics. Levels 1 and 2 look into solving more complicated problems. GCSE extends on the functional

skills syllabus to cover more academic topics including solving algebraic problems to comparing two sets of data using the mean and range.

SMSC, literacy, numeracy and Digital literacy

The Curriculum encompasses many areas that help develop the child's awareness of the world by focusing on their Social, Moral, Spiritual and Cultural (SMSC) and Literacy development. This is accomplished through a mix of traditional and modern approaches such as Digital literacy. An example is the use of ipads to solve number problems relating to tens and units

More opportunities for learning

There are many ways to give extra support to our students. The Mathematics department offers opportunities for students to enrich their learning. Examples include after School Mathematics Club Lunchtime assessment sessions and opportunities to use mathematics across the Curriculum. Parents can support by ensuring homework tasks are completed regularly and practice skills with their child whenever a chance arises such as a shopping trip.