

# MATHEMATICS KEY STAGE 3 SCHEDULE

## MODULES/UNITS

### Number

Students will spend considerable time developing their basic number skills through mental and written methods of calculation. They then progress onto exploring the connections between fractions, decimals, percentages and ratios.

Students explore properties of types of numbers, such as squares, primes and cubes.

### Algebra

Students develop their ability to manipulate algebraic expressions and solve equations. They develop understanding of straight line graphs.

### Shape and Space

Students discover and apply angle properties of 2D shapes and parallel lines. They learn how to transform 2D shapes and calculate areas, perimeters, volumes and surface areas. Students also increase their understanding of a variety of measures.

### Data Handling

Students develop strategies for collecting, presenting and analyzing data. They also explore theoretical and experimental probability.

## COURSEWORK DEADLINES/EXAMS

## WHEN

YEAR 7 ASSESSMENT	ONGOING
YEAR 8 ASSESSMENT	ONGOING
END OF YEAR 7 EXAM (NON-CALCULATOR/ CALCULATOR)	MAY/JUNE
END OF YEAR 8 EXAM (NON-CALCULATOR/ CALCULATOR)	MAY/JUNE

## TOPICS

## DURING

FOUR RULES OF NUMBER, WRITTEN AND MENTAL METHODS, PLACE VALUE, NEGATIVES, SEQUENCES, DRAW AND MEASURE ANGLES, ANGLE RULES.	YEAR 7 AUTUMN TERM
BIDMAS, PRIMES, INDICES, PRIME FACTORISATION, ANGLE RULES RECAP, PARALLEL LINES, CONSTRUCTION, ALGEBRAIC MANIPULATION INCLUDING SIMPLIFYING, SUBSTITUTION AND SOLVING LINEAR EQUATIONS, AVERAGES AND CHARTS.	YEAR 8 AUTUMN TERM
PROPERTIES OF SHAPES, AREA AND PERIMETER, ANGLE CONSTRUCTIONS, ALGEBRAIC MANIPULATION INCLUDING SIMPLIFYING, SUBSTITUTION AND SOLVING LINEAR EQUATIONS.	YEAR 7 SPRING TERM
PERIMETER, AREA & VOLUME, FRACTIONS AND PERCENTAGES, SOLVING EQUATIONS, PROBABILITY.	YEAR 8 SPRING TERM
FRACTIONS, DECIMALS, AND PERCENTAGES, TRANSFORMATIONS, CO-ORDINATES AND BASIC GRAPH DRAWING, AVERAGES AND DRAWING CHARTS.	YEAR 7 SUMMER TERM
DECIMALS, WRITTEN METHODS, TRANSFORMATIONS, STRAIGHT LINE GRAPHS, SEQUENCES, RATIO AND DIRECT PROPORTION.	YEAR 8 SUMMER TERM

## OTHER INFORMATION

### Revision

A useful website for revision is <http://www.bbc.co.uk/bitesize/ks3/maths/>  
To develop knowledge of topics (up to GCSE standard) use [www.corbettmaths.com](http://www.corbettmaths.com)

### Equipment

All students should have a pen, pencil, ruler and rubber to use every lesson.

**Contacts:** If you have any queries, please telephone the school or contact us on [phanraads@churchillschool.co.uk](mailto:phanraads@churchillschool.co.uk)