# Mathematics overview: Year 7 Support

Scheme is based on 4 x 1 hour lessons a week, classes will also complete rainbow starters each lesson to build on and develop numeracy skills.

Home learning is set on MyMaths at the teacher's discretion, at least once every two weeks

| Half Term 1 | Half Term 2 | Half Term 3 |
|---|---|---|
| • Number and the number system - factors, multiples, primes, squares and cubes<br>• Counting and comparing - place value, writing and ordering numbers, negative numbers<br>• Calculating: addition and subtraction | • Calculating: multiplication and division<br>• Investigating properties of shapes<br>• Visualising and constructing<br>• Exploring time- converting between units of time, reading timetables | • Exploring fractions, decimals and percentages - reading and ordering fractions, ordering decimals, write decimals as fractions, convert between FDP<br>• Pattern sniffing - counting, recognising patterns |
| Half Term 4 | Half Term 5 | Half Term 6 |
| • Measuring space - convert between measurements, common imperial measurements, solve problems with measurements and money<br>• Investigating angles - estimate, measure and draw angles, angles around a point and on a straight line | • Calculating fractions, decimals and percentages<br>• Calculating space - perimeter of composite shapes, area of rectangles, investigate volume<br>• Checking, approximating and estimating- rounding | • Mathematical movement - translations and reflections<br>• Presentation of data- line graphs<br><br><br>End of year test |

Westfield
School

# Mathematics overview: Year 7 Core

Scheme is based on 4 x 1 hour lessons a week, classes will also complete rainbow starters each lesson to build on and develop numeracy skills.

Home learning is set on MyMaths at the teacher's discretion, at least once every two weeks

| Half Term 1 | Half Term 2 | Half Term 3 |
|---|---|---|
| <ul><li>Number and the number system - place value, multiplying and dividing by powers of 10, common factors and multiples, negative numbers</li><li>Calculating- times tables, long multiplication, bidmas</li><li>Calculating: division</li></ul> | <ul><li>Visualising and constructing- 2d, 3d shapes, nets, tessellations, measuring lengths and angles</li><li>Investigating properties of shapes - angles in triangles, quadrilaterals, polygons</li><li>Algebraic proficiency: using formulae - substitution into formuale.</li></ul> | <ul><li>Exploring fractions, decimals and percentages - simplify fractions, equivalent fractions, convert between fdp</li><li>Proportional reasoning- enlargement, similar shapes</li><li>Pattern sniffing - sequences</li></ul> |
| **Half Term 4** | **Half Term 5** | **Half Term 6** |
| <ul><li>Measuring space - converting between metric measurements, imperial conversions</li><li>Investigating angles</li><li>Calculating fractions, decimals and percentages</li></ul> | <ul><li>Solving equations and inequalities</li><li>Calculating space - perimeter, area and volume</li><li>Checking, approximating and estimating</li><li>Mathematical movement - coordinates, translation and reflection</li></ul> | <ul><li>Presentation of data- calculating averages</li><li>Measuring data - pie charts, line graphs</li></ul><br><br><br>End of year test |

Westfield
School

# Mathematics overview: Year 7 Extension

Scheme is based on 4 x 1 hour lessons a week, classes will also complete rainbow starters each lesson to build on and develop numeracy skills or a weekly skills test which builds on key skills.

Home learning is set on MyMaths at the teacher's discretion, at least once every two weeks

| Half Term 1 | Half Term 2 | Half Term 3 |
|---|---|---|
| <ul><li>Number and the number system - prime numbers, HCF and LCM, powers and roots, types of numbers</li><li>Counting and comparing - negative numbers, fractions, symbols</li><li>Calculating - multiplication, division, calcs with decimals, bidmas</li></ul> | <ul><li>Visualising and constructing</li><li>Investigating properties of shapes</li><li>Algebraic proficiency: tinkering - simplifying, expanding, substitution, bidmas</li></ul> | <ul><li>Exploring fractions, decimals and percentages</li><li>Proportional reasoning - ratio</li><li>Pattern sniffing - sequences</li><li>Measuring space</li></ul> |
| **Half Term 4** | **Half Term 5** | **Half Term 6** |
| <ul><li>Investigating angles</li><li>Calculating fractions, decimals and percentages</li></ul> | <ul><li>Solving equations and inequalities</li><li>Calculating space - perimeter, area, volume surface area of cuboids</li><li>Checking, approximating and estimating</li><li>Mathematical movement - reflection, translation and rotation</li></ul> | <ul><li>Presentation of data - pie charts, comparative charts, line graphs, frequency tables</li><li>Measuring data - investigate averages</li></ul><br><br>End of year AQA test |

Westfield
School