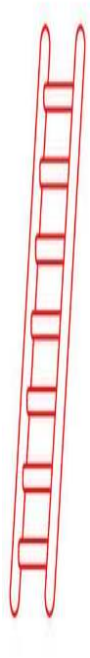
# Year 6 Age Related Expectation (ARE) Statements for Maths

For:_____



Steps to success!

| Place Value | | | | Measures | | |
|---|---|---|---|---|---|---|
| Round whole and decimal numbers | | | | Know the internal angles in 2D shapes total the same amount each time | | |
| Place numbers up to six digits, including decimals, in order | | | | Know that vertically opposite angles are equal | | |
| Multiply and divide numbers with up to three decimal places by 10, 100, and 1000 | | | | Solve missing angle problems involving triangles, quadrilaterals, angles at a point and angles on a straight line | | |
| Use negative numbers accurately to cross zero | | | | Know that the area of a triangle = base × height ÷ 2 | | |
| **Number** | | | | Know that the area of a parallelogram = base × height | | |
| Add and subtract up to a six digit number by a 5 digit number including decimals choosing the most efficient method | | | | Know the names of parts of a circle and that the diameter of a circle is twice the radius | | |
| Use long multiplication to multiply numbers up to four digit by a two digit number including decimals | | | | Calculate the volume of cubes and cuboids and understand that volume is measured in cubes | | |
| Use long division to divide numbers up to four digits by a two-digit number | | | | Interpret timetables and answer questions on them | | |
| Find the difference between positive and negative numbers | | | | Convert between imperial and metric units of measurement using a conversion table or chart | | |
| Use simple formulae expressed in words | | | | Read write and solve problems that convert between standard units of measure of length, mass, volume and time | | |
| Generate and describe linear number sequences | | | | | | |
| Use simple ratio to compare quantities | | | | **Geometry** | | |
| Write a fraction in its lowest terms by cancelling common factors | | | | Know the conventions for a 2D coordinate grid into 4 quadrants | | |
| Add and subtract fractions and mixed numbers with different denominators | | | | Recognise translations of 2D shapes and plot these accurately on a coordinate grid | | |
| Multiply and divide fractions, whole numbers and mixed numbers | | | | Use coordinates in all four quadrants on blank co-ordinates including negative numbers | | |
| Find percentages and fractions of quantities understanding that x means 'of' e.g. 15% x 440 = 15% of 440 | | | | **Statistics** | | |
| Know percentage and decimal equivalents for fractions with a denominator of 2, 3, 4, 5, 8 (0.125) and 10 | | | | Know that mean = sum of data ÷ number of pieces of data | | |
| Use BIDMAS to select the order in which to complete a calculation | | | | Calculate and interpret the mean as an average of a set of discrete data | | |
| Solve missing number problems (incl. some using algebra) | | | | Interpret and construct pie charts | | |