



PROGRESSION IN ALGEBRA YEAR 6

| Strand | What do I already know? | What am I going to be learning? | What will I learn next? |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------|
| Equations | <p>solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as: $7 = * - 9$ (Y1)</p> <p>recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems (Y2)</p> <p>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. (Y3)</p> <p>solve problems, including missing number problems, involving multiplication and division, including integer scaling (Y3)</p> <p>use the properties of rectangles to deduce related facts and find missing lengths and angles (Y5)</p> | express missing number problems algebraically | KS3 work |
| | recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 (Y2) | find pairs of numbers that satisfy number sentences involving two unknowns | |
| | represent and use number bonds and related subtraction facts within 20 (Y1) | find all possibilities of combinations of two variables | |
| Formulae | Perimeter can be expressed algebraically as $2(a + b)$ where a and b are the dimensions in the same unit. (Y4) | <p>use simple formulae</p> <p>recognise when it is possible to use formulae for area and volume of shapes</p> | |
| Sequences | <p>sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening (Y1)</p> <p>compare and sequence intervals of time (Y2)</p> <p>order and arrange combinations of mathematical objects in patterns (Y2)</p> | generate and describe linear number sequences | |
| Vocabulary | Equation, variable, formula, sequence, linear, unknown, algebra, area, volume, (number / letter equivalences, e.g. a, b, x, y) | | |