

Year 6 Spring Term 2- Algebra



Equation - A number sentence which uses an equal sign to separate two *expressions* which have the same value.

Expression - Groups of numbers, *variables* and operation symbols that give a value.

Variable - A value represented by a letter or symbol.

A **linear number sequence** is a sequence of numbers where each number increases or decreases by the same amount each time.

Term 1	Term 2	Term 3	Term 4	Term 5
4	7	10	13	16

+3 +3 +3 +3

Each number in a linear number sequence is called a **term**.
The constant change between each number is called the **term to term rule**.

Key Vocabulary
Substitution
BODMAS
BIDMAS
Simplify
Expression
Terms
Letters can represent numbers
Equation
Formulae
Sequences
Linear sequences
Unknowns
Variable

Use **formulae** to help find perimeter, area or volume of shapes

For a rectangle, the perimeter could be shown as $P=2(L + W)$ because we add the length and the width and then multiply by 2.
Answer= 28cm

The area could be shown as $A=LW$ because we multiply length and width to find area.
Answer= 40cm²

Take a number n <small>lets call this number 'n'</small>	double it 2 x n <small>(times it by 2)</small>	add 3 2n + 3
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If 'n' was 4, then $2n+3 = 11$.
This is called an equation.

Essential knowledge:
 $a + a + a = 3a$
 $4 \times d = 4d$
 $y \times y \times y = y^3$
 $7 \times e \times f = 7ef$

$ab = a \times b$ $a^2 = a \times a$ $\frac{a}{b} = a \div b$	<p>Substitution into formulas Swap the letters for the numbers you know.</p> <p>E.g. If $x = 3$ what is y when $y = 2x + 4$</p> <p style="margin-left: 20px;">$y = (2 \times 3) + 4$ $y = 6 + 4$ <u>$y = 10$</u></p>
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TOP TIP
When letters or numbers are next to each other in an equation, it means they need to be multiplied e.g.
Ab=12 means A x b=12
5c =10 means 5 x c =10