

Year 7 · 7.3 Introduction to Algebra — Learning objectives

What students should be able to do by the end of this unit.

1. I can use correct algebraic vocabulary: term, expression, equation, variable, coefficient, constant.
 2. I can apply correct algebraic conventions (e.g. write $3n$ not $n3$, write n^2 not $n \times n$).
 3. I can form simple algebraic expressions from a word description or context.
 4. I can form a simple equation from a problem or context.
 5. I can collect (simplify) like terms in an expression.
 6. I can write algebraic products correctly (e.g. $a \times b = ab$, $3 \times a \times a = 3a^2$).
 7. I can expand a single bracket using repeated addition and the area model (e.g. $3(x + 2) = 3x + 6$).
 8. I can substitute numerical values into simple expressions and evaluate the result.
 9. I can solve one-step equations formally (e.g. $x + 3 = 11$, $5x = 25$, $x \div 8 = 2$).
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