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| **Unit A2**  **Algebraic manipulation** | | **Year 8 Road Map** | | | | |
| In this unit you will learn about Sequences  **S**: Support  **C**: Core  **E**: Extension | | | | | | |
| **S/N** | **Differentiation** | **Learning Goals/Outcomes/Content** | **Mathswatch Clip** | **R** | **A** | **G** |
| 1 | S C E | Write an expression from statements and vice versa (A3.2) | A3 |  |  |  |
| 2 | C E | Distinguish between terms, formula, identity or expressions (A3.2, | A4 |  |  |  |
| 3 | S C | Simplify algebraic expressions by collecting like terms (A3.2, A4.2) | A6 |  |  |  |
| 4 | S | Multiply together two simple algebraic expressions, e.g., 2*a* × 3*b*; (A4.2) | A7 |  |  |  |
| 5 | S | Expand single brackets. E.g. 5(x + 3) (A3.2, A4.2, A5.2) | A8 |  |  |  |
| 6 | S C E | Form algebraic expressions to represent the area, perimeter, and volume (A3.2) | 53-56 |  |  |  |
| 7 | C E | Expand two simple brackets and simplify the outcome, E.g. 3(2x+5) + 4(2x-3) (A4.2, A5.2) | 134 |  |  |  |
| 8 | S C | Factorise simple expressions (A5.2/5), | 94 |  |  |  |
| 9 | E | Multiply out and simplify the product of two linear brackets | A18 |  |  |  |
| 10 | E | Recognise and factorise difference between two squares | 158 |  |  |  |
| 11 | E | Factorise quadratic expressions with a unit coefficient of x2 | 157 |  |  |  |
| 12 | S C E | Solve a variety of problems involving algebraic manipulations | 192 |  |  |  |

Student’s comments or questions