

| | Subject: Mathematics | | |
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| Theme / Area Covered | Algebra 1 End Points | | |
| | Age Related Targets – Year 7 | Age Related Targets – Year 8 | Age Related Targets – Year 9 |
| Key Objectives / Learning Pathway Emerging | Use simple formulae. Understand that $2e$ represents $2 \times e$ or 2 lots of e . Collect basic like terms | Simplifying expressions by collecting like terms Expanding single brackets Basic substitution | Simplifying algebraic expressions using knowledge of indices Substitute into simple formulae. Expand single brackets including indices Factorise into a single bracket |
| Key Objectives / Learning Pathway Developing | Simplifying expressions by collecting like terms Expanding single brackets Basic substitution | Simplifying algebraic expressions using knowledge of indices Substitute into simple formulae. Expand single brackets including indices Factorise into a single bracket | Substituting into complex formulae Substituting into real-life formulae Expand double brackets all positives |
| Key Objectives / Learning Pathway Securing | Simplifying algebraic expressions using knowledge of indices Substitute into simple formulae. Expand single brackets including indices Factorise into a single bracket | Substituting into complex formulae Substituting into real-life formulae Expand double brackets all positives | Expand double brackets with negatives Factorise into double brackets all positives |
| Key Objectives / Learning Pathway Excelling | Substituting into complex formulae Substituting into real-life formulae Expand double brackets | Expand double brackets with negatives Factorise into double brackets all positives | Create complex formulae from real-life situations and solve them using substitution (<i>e.g. A teacher has r boxes of pens, with s pens in each box. There are t students who receive 1 pen each. How many pens are left when $r=15$, $s=8$ and $t=31$?</i>) |