| Year 7 Milestones (Skills) |  |
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| Study | Consolidate their numerical and mathematical capability from key stage 2 and extend their <br> understanding of the number system and place value to include decimals, fractions, powers and <br> roots |
| Select and use appropriate calculation strategies to solve increasingly complex problems |  |
| Use algebra to generalise the structure of arithmetic, including to formulate mathematical |  |
| relationships |  |
| Substitute values in expressions, rearrange and simplify expressions, and solve equations |  |
| Move freely between different numerical, algebraic, graphical and diagrammatic representations |  |
| [for example, equivalent fractions, fractions and decimals, and equations and graphs] |  |
| Develop algebraic and graphical fluency, including understanding linear and simple quadratic |  |
| functions |  |
| Use language and properties precisely to analyse numbers, algebraic expressions, 2-D and 3-D <br> shapes, probability and statistics |  |
| Exter | Extend their understanding of the number system; make connections between number <br> relationships, and their algebraic and graphical representations |
| Extend and formalise their knowledge of ratio and proportion in working with measures and |  |
| mathematical representations |  |
| geometry, and in formulating proportional relations algebraically |  |

