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| **Year 6 - Building and assessing the conceptual understanding and learning – algebra** |
| **End of Year Expectations:**Pupils should be taught to: * use simple formulae
* generate and describe linear number sequences
* express missing number problems algebraically
* find pairs of numbers that satisfy an equation with two unknowns
* enumerate possibilities of combinations of two variables.

**See NCETM “Teaching for Mastery” Year 6 book – algebra.**<https://www.ncetm.org.uk/public/files/23305653/Mastery_Assessment_Y6_Low_Res.pdf> | **Non-statutory guidance:**Pupils should be introduced to the use of symbols and letters to represent variables and unknowns in mathematical situations that they already understand, such as: * missing numbers, lengths, coordinates and angles
* formulae in mathematics and science
* arithmetical rules (e.g. a + b = b + a)
* generalisations of number patterns
* number puzzles (e.g. what two numbers can add up to).

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| **Autumn** | **Spring** | **Summer** |
| * use simple formulae
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**Make links to geometry and measures:*** recognise when it is possible to use formulae for area and volume of shapes

From non-statutory guidance for geometry:* Pupils describe the properties of shapes and explain how unknown angles and lengths can be derived from known measurements.

 These relationships might be expressed  algebraically e.g. d = 2 × r; a = 180 - (b + c).  | * use simple formulae
* generate and describe linear number sequences
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**Make links to geometry and measures:*** recognise when it is possible to use formulae for area and volume of shapes

From non-statutory guidance for geometry:* Pupils describe the properties of shapes and explain how unknown angles and lengths can be derived from known measurements.

 These relationships might be expressed  algebraically e.g. d = 2 × r; a = 180 - (b + c).  | RevisionContinue to use and apply understanding of algebra in transition units |

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| **Key questions:**Can I show that I understand the use of symbols and letters to represent variables and unknowns e.g:* missing numbers, lengths, coordinates and angles
* formulae in mathematics and science
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 | **Key questions:** |