| B[Building Block 3 ≈ KS3 (Y7) | | | | | | |
|-------------------------------|-----------------------------|--|---|--|--|--|
| Half-Term | Topic/Content | Skills | Personal Development | | | |
| Autumn 1 | Place Value and ordering | Recognise and use integer place value up to 1 billion Recognise and use decimal place value up to at least hundredths Work out intervals and use number lines Compare and order numbers Use ordered lists to find range and median of a set of numbers Round numbers to positive powers of ten Round numbers to one significant figure | Communication Problem Solving Life Skills Staying Safe | | | |
| | Addition and Subtraction | Use mental and formal written methods of addition with integers and decimals- using most appropriate methods Solve problems in context such as perimeter, money and use frequency trees and tables Solve problems in the contexts of bar charts and other graphs | Communication Problem Solving Life Skills Staying Safe | | | |
| | Multiplication and division | Use mental and formal written methods of multiplication and division. Multiply and divide by 10,100,1000, and convert between different metric units Understand multiples and factors and find LCM and HCF of small numbers Find the mean of a set of numbers Find simple fractions and percentages of amounts Understand and use order of operations | Communication Problem Solving Life Skills Leadership | | | |
| Assessment | | | - | | | |
| Autumn 2 | Exploring Number | Recognise prime, square, triangle and cube numbers Express a number as a product of prime factors Understand powers and roots | Communication Problem Solving Life Skills Teamwork | | | |

| | Directed Number Fractional Thinking | Make and test conjectures Use and understand counterexamples Find simple fractions and percentages of amounts Use a number line from -20 to +20 Order directed numbers in both context and abstract Revisit four operations using directed number Use a calculator Represent tenths, hundredths on diagrams and number lines Interchange between fractions , decimals and percentages Change between mixed and improper fractions Find equivalent fractions and simplify fractions Use FDP in contexts such as probability and pie charts Find fractions of amounts Add and subtract fractions Order fractions | Communication Problem Solving Life Skills Staying Safe Communication Problem Solving Life Skills Staying Safe |
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| Assessment | | | |
| Spring 1 | Exploring Sequences | Recognise common sequences, odd, even, square, triangle numbers Recognise that multiplication tables are sequences, which can be transposed Describe and continue sequences in diagram and number forms both linear and non linear | Communication Problem Solving Teamwork |

| | Understanding and using algebraic notation | Use single function and two function machines, with numbers, bar models and letters Use and interpret algebraic notation Understand and use inverse operation Form and substitute into expressions, including to | Communication Problem Solving |
|------------|---|---|---|
| | | generate sequences | |
| Assessment | | • Represent functions graphically | |
| Spring 2 | Solving equations and Equality and equivalence Lines and angles | Form and solve single step equations- first with boxes, then with letters Form and solve 2 step equations again with boxes and letters Understand equality Use and understand fact families Simplify expression and collect like terms. Understand and use angle and line lettering and notation Draw and measure lines and angle accurately Classify angles Identify parallel and perpendicular lines Recognise and know the properties of types of triangle, quadrilaterals and other polygon Calculate missing angles, around a point, on a line, using vertically opposite angles Calculate missing angles in triangles and quadrilaterals | Communication Problem Solving Communication Problem Solving Life Skills |
| Assessment | | | |
| Summer 1 | Constructions | Use a ruler and protractor and a pair of compasses to draw lines and circles effective Construct triangles given SSS, SAS and ASA Draw and interpret pie charts Create and explore tessellations | Communication Problem Solving Life Skills Staying Safe |
| | Sets and Probability | Understand and use set notation | |

| A | | Draw and interpret Venn diagrams Understand and use the language of probability Calculate the probabilities of a single event | Problem Solving Life Skills Staying safe Self- awareness |
|------------|-------------------------|---|--|
| Assessment | Developing Number conce | | Communication |
| Summer 2 | Developing Number sense | Mental arithmetic strategies Use known facts to derive other facts Evaluate algebraic expression and related fact Use estimation and apply strategies for determining sensible answers | Communication Problem Solving Life Skills |
| | Project | Developing mathematical strategies and applying to an investigation or project to tie in many of the aspects of the block. Developing A02 and A03 skills | Communication Problem Solving Life Skills Self-Motivation Teamwork |
| Assessment | | | |

Rationale -

BB3-5

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BB6ab

As above, plus:

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