|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Place Value | | | | | | | | | | | Decimals and Fractions (A) | | | | | | | | |
| Unit 1 | | | | Unit 2 | | Unit 3 | | | Unit 4 | | Unit 1 | | Unit 2 | | Unit 3 | | Unit 4 | | |
| Day 1 | Day 2 | Day 3 | Day 1 | | Day 2 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 1 | Day 2 | Day 1 | Day 2 | Day 1 | Day 2 | Day 1 | Day 2 | Day 3 |
| Place value in 5-digit numbers | | | | Place 5-digit numbers on a line; round | | Place 6-digit numbers on a line; round | | | Deepen understanding of 6-digit numbers | | Divide by 10/100; 2-place decimals | | 1- & 2-place decimals on a line; compare | | Add/subtract multiples of 0.1/0.01 | | Subtract decimals with 1 or 2 places | | |
| 1a *Use a range of representations to develop and secure understanding of place value; read, record and interpret numbers* | | | | | | | | | | | 1b  *Use a range of representations to extend understanding of the number system to decimals; place decimals on a number line* | | | | | | | | |
| *2c Understand the idea of input and output* | |  | | 1f *Use the four arithmetic operations with decimals* | | | | |
|  | | | | 1b *Accurately place integers, on a number line; apply understanding of number value to round and approximate* | | | | | 1f *Use + / - confidently with integers* | |
| Outcomes: 1, 3, 5 | | | | Outcomes: 1,2 | | Outcomes: 1, 2, 3 | | | Outcomes: 3, 5 | | Outcomes: 19, 29 | | 19, 29, 30 | | Outcomes: 29, 31 | | Outcomes: 32 | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Addition and Subtraction | | | | | | | | | | | | | Decimals and Fractions (B) | | | | | | | |
| Unit 1 | | Unit 2 | | | | Unit 3 | | | | Unit 4 | | | Unit 1 | | | Unit 2 | | | | |
| Day 1 | Day 2 | Day 1 | Day 2 | Day 3 | Day 4 | Day 1 | Day 2 | Day 3 | | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| Column addition | | Decimal and money calculation | | | | Column subtraction; choose a strategy | | | | Revise addition and subtraction | | | Mixed numbers and fractions of amounts | | | Fractions: equivalents, simplify, add, subtract | | | | |
| 1f *Use + / - confidently, efficiently and accurately with integers and decimals*  1e V*erify calculations and statements about number by inverse reasoning and approximation methods* | | | | | | | | | | | | | 1b *Use a range of representations to extend understanding of the number system to include fractions; place fractions on a number line*  1c *Use knowledge of fractions, e.g. to compare and convert* | | | | | | | |
| 1d *Use* *a fraction as an operator* | | |  | | | | |
| Outcomes: 8, 10 | | Outcomes: 7, 10, 31, 32 | | | | Outcomes: 9, 10 | | | Outcomes: 5, 7, 8, 9 | | | | Outcomes: 25, 33 | | | Outcomes: 23, 24, 26 | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Multiplication and Division | | | | | | | | | | | | | Measures and Data | | | | | | | | | | | |
| Unit 1 | | | Unit 2 | | | Unit 3 | | | | Unit 4 | | | Unit 1 | | | Unit 2 | | Unit 3 | | Unit 4 | | | Unit 5 | |
| Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 1 | Day 2 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 1 | Day 2 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 |
| Multiples, factors and word problems | | | Primes, divisibility, mental strategies | | | Grid method and short multiplication | | | | Division of big numbers: vertical layout | | | Understand metric and imperial units | | | Timetables and intervals: 24 hour clock | | Perimeters: composite and rectilinear | | Regular and irregular areas; volumes | | | Temperature and negative numbers | |
| 1h *Recall and use multiplication facts up to at least 10 x 10* | | | | | | | | | | | | | 3b *Estimate and measure length, capacity, mass, using appropriate standard units*  *3c Convert between standard units* | | | 3a *Read clocks accurately; perform calculations involving time* | | 3g *Find the perimeter and area of*  *2-D shapes, understanding how basic formulae are derived* | | | | | 3b *Estimate and measure temperature*  *1b Extend number system to negative numbers* | |
| 1i *Explore multiplicative relationships and properties of number, including factors, multiples, prime and square numbers* | | | | | | 1f *Use × / ÷ confidently, efficiently and accurately with integers*  1e *Verify calculations and statements about number by inverse reasoning and approximation methods* | | | | | | |
| Outcomes: 12, 15, 21 | | | Outcomes: 12, 13, 15 | | | Outcomes: 12, 16, 21 | | | | Outcomes: 12, 18 | | | Outcomes: 35, 36 | | | Outcomes: 40, 43 | | Outcomes: 37 | | Outcomes: 38, 39 | | | Outcomes: 4, 41 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Decimals and Fractions (A) | | | | | | | | | | | Addition and Subtraction | | | | | | | | | |
| Unit 1 | | | | Unit 2 | | Unit 3 | | | Unit 4 | | Unit 1 | | | Unit 2 | | | | Unit 3 | | |
| Day 1 | Day 2 | Day 3 | Day 1 | | Day 2 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 | Day 4 | Day 1 | Day 2 | Day 3 |
| Place value in decimals; rounding | | | | Column addition; 2-place decimals | | Subtract decimal numbers, e.g. money | | | x/÷ by 10, 100, 1000; rounding decimals | | Mental and written addition/subtraction | | | Column subtraction and word problems | | | | Mental addition & subtraction strategies | | |
| 1b *Use a range of representations to extend understanding of the number system to include decimals; apply understanding of number value to round and approximate* | | | | | | | | | | | 1f *Use + / - confidently, efficiently and accurately with integers*  1e V*erify calculations and statements about number by inverse reasoning and approximation methods* | | | | | | | | | |
|  | | | | 1f *Use the four arithmetic operations confidently, efficiently and accurately with decimals* | | | | | | |
| Outcomes:19, 29, 30 | | | | Outcomes: 29, 31 | | Outcomes: 32 | | | Outcomes:19, 29, 30 | | Outcomes: 5, 7, 8 | | | Outcomes: 9, 10 | | | | Outcomes: 5, 7, 8 | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Shape (A) | | | | | | | | Decimals and Fractions (B) | | | | | | | | | |
| Unit 1 | | Unit 2 | | | Unit 3 | | | Unit 1 | | | Unit 2 | | | | Unit 3 | | |
| Day 1 | Day 2 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 | Day 4 | Day 1 | Day 2 | Day 3 |
| Deepen understanding of  3-D shapes | | Properties of polygons; quadrilaterals | | | Draw/reflect shapes on co-ordinate grids | | | Subtraction with decimals, e.g. money | | | Unit and non-unit fraction problems | | | | Multiply fractions; decimal equivalences | | |
| 3e *Explore vertices, edges and faces of 3-D shapes and use these characteristics to describe a 3-D shape.* | | 3d *Explore and consolidate understanding of the properties of 2-D shapes to include the number of sides and symmetry*  3i *Demonstrate understanding of angle as a measure of rotation and recognise, name and describe types of angles.* | | | 3d *Explore and consolidate understanding of the properties of 2-D shapes to include the number of sides and symmetry*  3h *Develop understanding of the ways in which co-ordinates are used to solve problems* | | | 1f *Use the four arithmetic operations confidently, efficiently and accurately with decimals* | | | 1d *Use a fraction as an operator* | | | | 1b *Use a range of representations to extend understanding of the number system to include decimals and fractions*  *1c Convert between representations* | | |
| Outcomes: 4 5 | | Outcomes: 48 | | | Outcomes: 49 | | | Outcomes: 32, 33 | | | Outcomes: 21, 23, 24, 33 | | | | Outcomes: 21, 27, 28, 33 | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Multiplication and Division | | | | | | | | | | Shape (B) | | | | |
| Unit 1 | | | Unit 2 | | | Unit 3 | | | | Unit 1 | | Unit 2 | | |
| Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 | Day 4 | Day 1 | Day 2 | Day 1 | Day 2 | Day 3 |
| Multiples & factors; mental x/÷ strategies | | | Short multiplication: 4-digit numbers & money | | | Short division with 3- & 4-digit numbers | | | | Recognise, measure and draw angles | | Angle theorems; draw angles in polygons | | |
| 1h *Recall and use multiplication facts up to at least 10 x 10*  1i *Explore multiplicative relationships and properties of number, including factors, multiples, prime and square numbers* | | | 1f *Use × / ÷ confidently, efficiently and accurately with integers*  1e *Verify calculations and statements about number by inverse reasoning and approximation methods* | | | | | | | 3d *Explore and consolidate understanding of the properties of 2-D shapes to include the number of sides and symmetry*  3i *Demonstrate understanding of angle as a measure of rotation and recognise, name and describe types of angles.* | | | | |
| Outcomes: 12, 14, 15, 21 | | | Outcomes: 16, 21 | | | Outcomes: 18, 21 | | | | Outcomes: 47 | | Outcomes: 46, 47 | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Place Value | | | | | | | Decimals and Fractions | | | | | | | |
| Unit 1 | | Unit 2 | | | Unit 3 | | Unit 1 | | | Unit 2 | | Unit 3 | | |
| Day 1 | Day 2 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 1 | Day 2 | Day 3 |
| Negative numbers; count through zero | | Place value in 6-digit numbers | | | Identify and write Roman numerals | | Place value in 3-place decimals | | | Compare and use 3-place decimals | | Subtract decimal numbers by counting up | | |
| 1b *Use a range of representations to extend understanding of the number system to include negative values* | | 1a *Use a range of representations to develop and secure understanding of place value; read, record and interpret numbers* | | | 2a *Explore and create patterns of numbers* | | 1b *Use a range of representations to extend understanding of the number system to include decimals; apply understanding of number value to round and approximate*  1f *Use the four arithmetic operations confidently, efficiently and accurately with decimals* | | | | | | | |
| Outcomes: 4 | | Outcomes: 1, 2, 3 | | | Outcomes: 5, 6 | | Outcomes: 19, 29 | | | Outcomes: 29, 31 | | Outcomes: 29, 32 | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Multiplication and Division (A) | | | | | | | | | | | | Addition and Subtraction | | | | | | | | |
| Unit 1 | | | Unit 2 | | | | Unit 3 | | | | | Unit 1 | | | Unit 2 | | | Unit 3 | | |
| Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 | Day 1 | | Day 2 | Day 3 | Day 4 | Day 5 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 |
| Mental multiplication / division problems | | | Problems with multiples, factors, scaling | | | | Grid, short and long multiplications | | | | | Mental add/subtraction strategies revision | | | Column add, whole/decimal numbers & money | | | Choose subtraction method: column/counting up | | |
| 1f *Use × / ÷ confidently, efficiently and accurately with integers*  1e *Verify calculations and statements about number by inverse reasoning and approximation methods* | | | 1g *Extend understanding of multiplicative reasoning to include the application of proportion and scale*  1i *Explore multiplicative relationships and properties of number, including factors and multiples* | | | | 1f *Use × / ÷ confidently, efficiently and accurately with integers*  1e *Verify calculations and statements about number by inverse reasoning and approximation methods* | | | | | 1f *Use + / - confidently, efficiently and accurately with integers*  1e V*erify calculations and statements about number by inverse reasoning and approximation methods* | | | | | | | | |
| Outcomes: 12, 14, 15, 21 | | | Outcomes: 14, 17, 20, 21 | | | | Outcomes: 12, 16, 21 | | | | | Outcomes: 5, 7 | | | Outcomes: 8, 10, 35 | | | Outcomes: 9, 10 | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Measures and Data | | | | | | | | | | | Fractions and Percentages | | | | | | | |
| Unit 1 | | | | Unit 2 | | | Unit 3 | | | | Unit 1 | | | Unit 2 | | | Unit 3 | |
| Day 1 | Day 2 | Day 3 | Day 4 | Day 1 | Day 2 | Day 1 | | Day 2 | Day 3 | Day 4 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 | Day 1 | Day 2 |
| 24-hr timetables; calculate time intervals | | | | Draw line and conversion graphs | | | Concept of rate; line graphs | | | | Begin to understand percentages | | | Add/subtract fractions with related denominators | | | Multiply fractions by whole numbers | |
| 3a *Read analogue and digital clocks accurately and make interpretations and perform calculations involving time.*  3b *Estimate and measure time, using appropriate standard units.* | | | | *4a Collect different types of data to answer a variety of questions that have been posed*  *4b Represent information by creating a variety of appropriate charts of increasing complexity*  *4c Use different scales to extract and interpret information from a range of diagrams, tables and graphs.* | | | | | | | 1c *Demonstrate understanding that non-integer quantities can be represented using fractions (including fractions greater than 1), decimals and percentages; use knowledge of equivalence to compare the size of simple fractions and convert between representations.* | | | | | | | |
|  | | |  | | | 1d *Use a fraction as an operator* | |
| Outcomes: 40, 43 | | | | Outcomes: 44 | | | | | | | Outcomes: 28, 33 | | | Outcomes: 23, 25, 26 | | | Outcomes: 21, 25, 33 | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Multiplication and Division (B) | | | | | |
| Unit 1 | | | Unit 2 | | |
| Day 1 | Day 2 | Day 3 | Day 1 | Day 2 | Day 3 |
| Division problems with short division | | | Solve long multiplication problems | | |
| 1f *Use × / ÷ confidently, efficiently and accurately with integers*  1e *Verify calculations and statements about number by inverse reasoning and approximation methods* | | | | | |
| Outcomes: 12, 18 | | | Outcomes:12, 16, 21 | | |