Flax Bourton Church of England Primary School



**“Aiming High, Respecting Others, Having Fun”**

**Maths Medium Term Plan Year 5**

|  | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** | **Week 11** | **Week 12** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Autumn** | **Number and Place Value** * Roman numerals to 1,000
* Numbers to 10,000
* Numbers to 100,000
* Numbers to 1,000,000
* Read and write numbers to 1,000,000
* Powers of 10
* 10/100/1,000/10,000/100,000 more or less
* Partition numbers to 1,000,000
* Number lines to 1,000,000
* Compare and order numbers to 100,000
* Compare and order numbers to 1,000,000
* Round to the nearest 10, 100 or 1,000
* Round within 100,000
* Round within 1,000,000
 | **Addition and Subtraction** ♣ Mental strategies ♣ Add whole numbers with more than four digits ♣ Subtract whole numbers with more than four digits ♣ Round to check answers ♣ Inverse operations (addition and subtraction) ♣ Multi-step addition and subtraction problems♣ Compare calculations ♣ Find missing numbers | **Multiplication and Division** ♣solve comparison, sum and difference problems using information presented in a line graph♣ complete, read and interpret information in tables, including timetables | **Number: Multiplication and Division A**♣ Multiples♣Common multiples♣Factors♣ Common factors♣ Prime numbers♣ Square numbers♣ Cube numbers♣ Multiply and divide by 10, 100 and 1,000♣ Multiples by 10, 100 and 1,000 | **Fractions A**♣ Find fractions equivalent to a unit fraction♣ Find fractions equivalent to a non-unit fraction♣ Recognise Equivalent fractions♣ Convert improper fractions to mixed numbers♣ Convert mixed numbers to improper fractions♣ Compare fractions less than one♣ Order fractions less than one♣ Compare and order fractions greater than oneAdd and subtract fractions with the same denominator Add fractions within 1 Add fractions with total greater than 1 Add to a mixed number Add two mixed numbers Subtract fractions Subtract from a mixed number Subtract from a mixed number – breaking the wholeSubtract two mixed numbers |
| **Spring** | **Number: Multiplication and Division B**♣ multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers ♣ multiply and divide numbers mentally drawing upon known facts ♣ divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context ♣ solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign | **Number: Fractions B**♣compare and order fractions whose denominators are all multiples of the same number♣ identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths ♣ recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]♣ add and subtract fractions with the same denominator and denominators that are multiples of the same number♣ multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams♣ read and write decimal numbers as fractions [for example, 0.71 = 71/100]♣ solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. | **Number: Decimals and percentages**♣ read, write, order and compare numbers with up to three decimal places♣ recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents♣ round decimals with two decimal places to the nearest whole number and to one decimal place♣ solve problems involving number up to three decimal places♣ recognise the per cent symbol (%) and understand that per cent relates to ‘number of parts per hundred’, and write percentages as a fraction with denominator 100, and as a decimal♣ solve problems which require knowing percentage and decimal equivalents of ½, ¼, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25 | **Number: Perimeter and Area** | **Statistics** |
| **Summer** | **Geometry: Properties of Shape**♣identify 3-D shapes, including cubes and other cuboids, from 2-D representations♣ know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles♣ draw given angles, and measure them in degrees (°)♣ identify: angles at a point and one whole turn (total 360°) angles at a point on a straight line and ½ a turn (total 180°), other multiples of 90°♣ use the properties of rectangles to deduce related facts and find missing lengths and angles♣ distinguish between regular and irregular polygons based on reasoning about equal sides and angles | **Geometry: Position and Direction**♣identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed**Geometry: Properties of Shape**♣identify 3-D shapes, including cubes and other cuboids, from 2-D representations♣ know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles♣ draw given angles, and measure them in degrees (°)♣ identify: angles at a point and one whole turn (total 360°) angles at a point on a straight line and ½ a turn (total 180°), other multiples of 90°♣ use the properties of rectangles to deduce related facts and find missing lengths and angles♣ distinguish between regular and irregular polygons based on reasoning about equal sides and angles | **Number: Decimals** ♣Recognise and write decimal equivalents of any number of tenths or hundredths♣Find the effect of dividing a one or two-digit number to 10 or 100, identify the value of the digits in the answer as ones, tenths and hundredths♣Solve simple measure and money problems involving fractions and decimals to two decimal places♣convert between different units of measure (for example km to m) | **Number: Negative Numbers** | **Measurement: Converting Units**♣convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)♣ solve problems involving converting between units of time♣ understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints | **Measurement: Volume**♣ estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]♣use all four operations to solve problems involving measure |