**Mathematics - Summer Yr 3 / 4**

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| Prior Learning | | |
| Recognise, find, name and write fractions 1/3, 1/4, 2/4, and 3/4 of a length, shape, set of objects or quantity.  Write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2  Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.  Find different combinations of coins that equal the same amounts of money  Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.  Compare and sequence intervals of time.  Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.  Know the number of minutes in an hour and the number of hours in a day.  Identify and describe the properties of 2-d shapes, including the number of sides and line symmetry in a vertical line.  Identify and describe the properties of 3-d shapes, including the number of edges, vertices and faces.  Identify 2-d shapes on the surface of 3-d shapes, [for example, a circle on a cylinder and a triangle on a pyramid].  Compare and sort common 2-d and 3-d shapes and everyday objects.  Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.  Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.  Ask and answer questions about totalling and comparing categorical data. | | |
| Key vocabulary for this unit | | |
| Denominator  Numerator  Whole  Partition  Unit fraction  Non-unit fraction  Notes  Coins  Pounds  Pence  Change  Roman numerals  O’clock  Past  To  Digital  Analogue  AM  PM | | Days  Weeks  Months  Years  Minutes  Seconds  Duration Angle  Right angle  Horizontal  Vertical  Parallel  Perpendicular  2D  3D  Pictogram  Bar chart  Data  Interpret  Two-way table |
| Learning Sequence | | |
| **Fractions** | * To add and subtract fractions with the same denominator. * To partition whole numbers. * To find unit and non-unit fractions of a set of objects. * To solve problems by calculating fractions of amounts, including non-unit fractions. | |
| **Money** | * To consolidate their knowledge of notes and coins. * To convert pence into pounds and pence. * To add and subtract amounts of money. * To find change. | |
| **Time** | * To learn Roman numerals to 12. * To tell the time to the nearest 5 minutes. * To tell time to the nearest minute. * To tell the time on a digital clock. * To understand and use am and pm. * To develop their understanding of days, weeks, months and years. * To find durations of time between given start and end times. * To use minutes and seconds as units of time. * To compare lengths of time using different units. * To solve problems using time. | |
| **Shape** | * To recognise angles as describing the size of a turn. * To learn right angles are a quarter turn and to learn the symbol for these. * To compare angles greater and smaller than a right angle. * To measure and draw straight lines accurately in cm and mm. * To recognise and draw horizontal and vertical lines. * To find and identify parallel and perpendicular lines. * To recognise, name, create and draw a variety of 2D shapes. * To recognise, describe and build 3D shapes. | |
| **Statistics** | * To interpret and draw pictograms. * To interpret and draw bar charts. * To collect and represent data. * To interpret data from simple two-way tables. | |
| Assessment milestones | | |
| **Mathematical Skills:**   * To find unit and non-unit fractions of a set of objects. * To find change. * To tell the time to the nearest 5 minutes. * To compare angles greater and smaller than a right angle. * To draw straight lines accurately. * To collect and represent data. | | **Mathematical Knowledge:**   * To recognise and use different coins and notes. * To learn Roman numerals to 12. * To understand the relationship between different units of time. * To understand right angles are a quarter turn. * To identify horizontal, vertical, parallel and perpendicular lines. * To recognise and describe different 3D shapes. |