Key Learning Objectives	**Ideas for home learning activities**
Counting and Understanding Numbers/Knowing and Using Number Facts	**Counting and Understanding Numbers/Knowing and Using Number Facts**

Counting and Understanding Numbers/Knowing and Using Number Facts

- Count forwards or backwards in powers of 10 (10, 100, 1000 etc) from any number up to 1 000 000
- Read, write, compare and order numbers to at least 1 000 000
- Read Roman numerals to 1000 (M) and recognise years written in Roman numerals
- Find 1000 more or less than any number
- Count forwards and backwards with positive and negative numbers, including through zero
- Add and subtract any number using formal written methods
- Identify multiples and factors
- Understand what a prime number is and know prime numbers up to 19
- Recognise and use square and cube numbers
- Multiply and divide numbers by 10, 100 and 1000
- Identify, name and write equivalent fractions
- Compare and order fractions with the same denominators
- Recognise and understand what % means
- Round decimals to the nearest whole number or to one decimal place

Counting and Understanding Numbers/Knowing and Using Number Facts

- Write fractions and decimals on different blank playing cards and match them. Use a calculator – point out that ½ is the same as $1 \div 2$
- Watch the weather forecast, write down the temperatures and order them.
- Whilst out shopping encourage children to round prices up/down and estimate totals.
- Look at recipes and calculate how the ingredients would change if there were more or fewer people.
- Look for reductions in shops that involve percentages or on products where there is, for example, 20% extra. Discuss what this means.
- Use a catalogue and ask children to choose 5 items under £20. Calculate how much they cost and the change from £100.
- Plan a party or a special celebration with a given budget.
- Give them a budget for the week/month – encourage them to keep a record of their spending and what they have left

Geometry

- Find missing lengths and angles of a rectangle
- Know the difference between regular and irregular shapes
- I can identify and describe properties of 2D and 3D shapes
- Identify nets of 3-D shapes.
- Draw a shape after it has been reflected or translated (slid)
- Know that angles are measured in degrees and know acute, obtuse and reflex angles
- Draw lines accurately with a ruler (to the nearest mm)
- Use a protractor to measure angles

Geometry

- Cut out different triangles and quadrilaterals. Name them. Sort them out. Which have right angles? Which have acute angles? Which have parallel sides?
- Look for different shapes boxes and containers. Disassemble them to find out how they are constructed.
- Make Egyptian pyramids of different sizes, different sized dice.
- Make boxes for presents

Measurement

- Solve problems involving converting between units of time and measures
- Calculate and compare the area and perimeter of rectangles and squares
- Estimate volume and capacity

Measurement

- Measure some rectangles in the home e.g. coffee table, bedside cabinet, CD case, DVD case and work out their areas and perimeters.
- Wrap a 'box' shaped present. How much wrapping paper will be needed?
- How many different quadrilaterals can they draw with a specific area?
- Practise changing centimetres to metres and vice versa. Convert other units of measure.

Statistics

- Complete, read and interpret information in tables, including timetables
- Solve problems using information from a line graph

Statistics

- Look at the temperature and rainfall graphs in an atlas or travel brochure. What times of the year are hottest? Coldest? One weekend record the temperature at set times during the day and draw a graph.
  Do the same for rainfall over a week.
- Use timetables to plan journeys.