

Number

Shape
and Space

Algebra

Data

Measures

NUMBER

Addition, Subtraction, Multiplication and Division, Fractions, Decimals, Percentages



- Read, write and order whole numbers and identify place value in whole numbers. Round off whole numbers
- Estimate sums, differences, products and quotients of whole numbers
- Divide a three-digit number by a two-digit number with and without a calculator
- Identify simple prime and composite numbers
- Solve problems involving operations with whole numbers, fractions, decimals and simple percentages
- Identify factors and multiples

- Compare and order fractions and identify equivalent forms of fractions with denominators 2 to 12
- Add and subtract simple fractions and mixed numbers
- Express tenths, hundredths and thousandths in both fractional and decimal form
- Develop an understanding of simple percentages and relate them to fractions and decimals
- Compare and order fractions and decimals

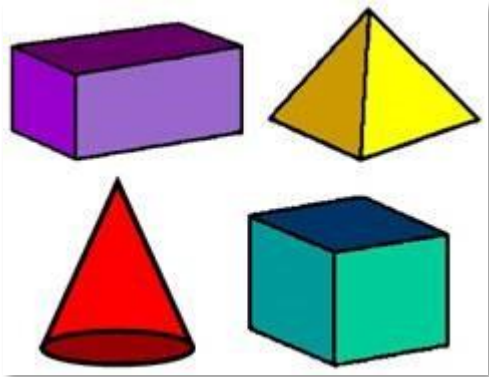


- Add and subtract whole numbers and decimals to three decimal places, with and without a calculator
- Identify place value in decimals
- Multiply a decimal up to three places, by a whole number without and with a calculator
- Solve problems involving operations with decimals
- Multiply a decimal (up to three places) by a whole number with and without a calculator
- Develop an understanding of simple percentages and relate them to fractions and decimals
- Compare and order fractions and decimals



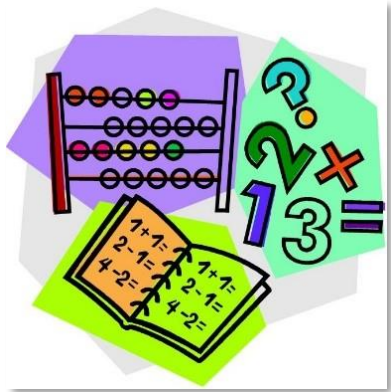
- Develop an understanding of simple percentages and relate them to fractions and decimals
- Compare and order fractions and decimals
- Solve problems involving operations with simple percentages
- Solve problems involving operations with whole numbers, fractions, decimals and simple percentages

SHAPE AND SPACE



- Make informal deductions about 2D shapes and their properties
- Use angle and line properties to classify and describe triangles and quadrilaterals
- Tessellate combinations of 2D shapes
- Use 2D shapes and properties to solve problems
- Recognise, classify and describe angles and relate angles to shape and the environment
- Estimate, measure and construct angles in degrees
- Explore the sum of the angles in a triangle
- Identify the properties of a circle and construct a circle of a given radius or diameter
- Identify and examine 3D shapes and explore relationships including tetrahedron (faces, edges and vertices)
- Draw the nets of simple 3D shapes and construct the shapes

ALGEBRA



- Identify positive and negative numbers in context
- Identify relationships and record verbal and simple symbolic rules for number patterns
- Explore and discuss simple properties and rules about brackets and priority of operations
- Solve one-step number sentences and equations
- Translate number sentences with a frame into word problems and vice-versa

DATA



- Read and interpret pictograms, single and multiple bar charts and pie charts
- Explore and calculate averages of simple data sets
- Collect, organise and represent data using pictograms, bar charts and pie charts
- Estimate the likelihood of the occurrence of events
- Identify and list all possible outcomes of simple random processes, order on a scale from 0-100%
- Construct and use frequency charts and tables

MEASURES

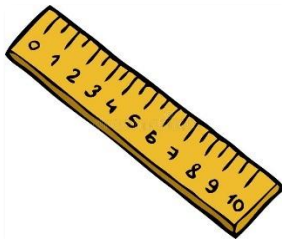
Time, Money, Length, Height, Width, Weight, Capacity and Area



- Interpret and convert between times in 12 hour and 24-hour format
- Read and interpret timetables and the 24-hour clock (digital and analogue)
- Read and solve word problems on Time



- Solve problems involving operations with decimals
- Compare "value for money" using unitary method
- Read and solve word problems on Money



- Estimate and measure length using appropriate metric units (ie. centimetres and metres)
- Solve problems involving operations with whole numbers, fractions, decimals and simple percentages
- Estimate and measure the perimeter of regular and irregular shapes
- Read and solve word problems on length, height and width



- Select and use appropriate instruments of measurement
- Estimate and measure weight using appropriate metric units (ie. grams and kilograms)
- Read and solve word problems on Weight



- Select and use appropriate instruments of measurements
- Estimate and measure capacity using appropriate metric units (millilitres and litres)
- Read and solve word problems on Capacity



- Estimate and measure the area of regular and irregular 2D shapes
- Calculate area using square centimeters and square metres
- Discover that the area of a rectangle is length by breadth
- Read and solve word problems on Area