

TDS Year 6 Maths Checklist

Number – Place Value

- Read, write, order and compare numbers up to 10,000,000.
- Round any whole number to a required degree of accuracy.
- Use negative numbers, and calculate intervals across zero.
- Solve number and practical problems that involve all of the above.

Number – Four Operations + - x ÷

- Solve addition and subtraction multi-step problems in a variety of contexts.
- Use BODMAS to carry out calculations involving the four operations.
(Brackets, Orders, Division, Multiplication, Addition, Subtraction)
- Solve problems using addition, subtraction, multiplication and division.
- Multiply numbers up to 4-digits by a 2-digit using long or short multiplication.
- Divide numbers up to 4-digits by two-digits using long or short division.
- Show your remainders as a whole number, fraction or decimal.
- Identify common factors, common multiples and prime numbers.
- To understand how to square and cube numbers.

Numbers – Fractions, Decimals and Percentages

- Use common factors to simplify fractions.
- To be able to solve and show equivalent fractions.
- Compare and order fractions, including mixed numbers.
- Add and subtract fractions with same and different denominators, including mixed numbers.
- Multiply simple pairs of fractions, writing the answer in its simplest form.
- Divide simple fractions by whole numbers.
- Identify the value of each digit up to three decimal places.
- Round numbers up to 2 decimal places.
- Recall the equivalences between simple fractions, decimals and percentages.
- Calculate percentages of an amount.
- Calculate fractions of an amount.

Measurements

- To be able to convert different units of measurements (length, mass, volume and time).
- To be able to calculate the perimeter and area of shapes.
- Calculate the area of parallelograms and triangles.
- Calculate and compare volume of cubes and cuboids in cm^3 and m^3 .

Geometry – Properties of Shapes

- Draw 2D shapes using given dimensions and angles.
- Recognise and describe simple 3D shapes.
- Compare geometric shapes based on their properties.
- Illustrate and name parts of a circle including: radius, diameter and circumference.
- Recognise different types of angles and how to solve missing angles in shapes.

Geometry – Position and Direction

- Describe positions on a four quadrant grid.
- Draw and translate simple shapes on a four quadrant grid.

Statistics -

- Interpret and construct pie charts and line graphs.
- Calculate mean as an average.

Ratio and Proportion -

- Solve problems involving similar shapes where the scale factor is known.

Algebra –

- Express missing number problems algebraically.
- Find unknown numbers in a problem.