Supporting your child at home

in Maths



A guide for parents

Year 4

This booklet provides a checklist for parents/carers on the year expectations for children at Joseph Turner. The National Curriculum outlines these expectations as being the minimum requirements your child should meet each year. All of the objectives will be focused on throughout the year as part of your child’s lessons. Any extra support you can provide in helping your child to achieve these expectations is greatly valued. If you have any queries regarding these expectations or would like support in knowing how to help your child with these, please see your child’s class teacher.

**Number – Number and Place Value**

• Count in multiples of 6, 7, 9, 25 and 1000.

• Find 1000 more or less than a given number.

• Count backwards through zero to include negative numbers.

• Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones).

• Order and compare numbers beyond 1000.

• Round any number to the nearest 10, 100 or 1000.

**Number – Addition and Subtraction**

• Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.

• Estimate and use inverse operations to check answers to a calculation.

• Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.

**Number – Multiplication and Division**

• Recall multiplication and division facts for multiplication tables up to 12 × 12.

• Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1 and dividing by 1.

• Recognise and use factor pairs and commutativity in mental calculations.

• Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.

**Number – Fractions and decimals**

• Recognise and show, using diagrams, families of common equivalent fractions.

• Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.

• Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.

• Add and subtract fractions with the same denominator.

• Recognise and write decimal equivalents of any number of tenths or hundredths and recognise and write decimal equivalents to 1/4, 1/2, 3/4.

• Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.

• Round decimals with one decimal place to the nearest whole number.

• Compare numbers with the same number of decimal places up to two decimal places.

**Geometry**

• Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.

• Identify acute and obtuse angles and compare and order angles up to two right angles by size.

• Identify lines of symmetry in 2-D shapes presented in different orientations.

• Describe positions on a 2-D grid as coordinates in the first quadrant.

• Plot specified points and draw sides to complete a given polygon.

**Measurement**

• Convert between different units of measure [for example, kilometre to metre; hour to minute].

• Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.

• Find the area of rectilinear shapes by counting squares.

• Estimate, compare and calculate different measures, including money in pounds and pence.

• Read, write and convert time between analogue and digital 12- and 24-hour clocks and solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

**Statistics**

• Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.

• Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

**Fun activities to do at home**

**Pairs to 100**

This is a game for two players.

♦ Each draw 10 circles. Write a different two-digit number in each circle – but not a ‘tens’ number (10, 20, 30, 40…).

♦ In turn, choose one of the other player’s numbers.

♦ The other player must then say what to add to that number to make 100, e.g. choose 64, add 36. If the other player is right, she crosses out the chosen number.

♦ The first to cross out 6 numbers wins.

**Looking around**

♦ Choose a room at home.

♦ Challenge your child to spot 20 right angles in it.

**Number game**

♦ Put some dominoes face down. Shuffle them and each choose a domino.

♦ Multiply the two numbers on your domino. Whoever has the biggest answer keeps the two dominoes.

♦ The winner is the person with the most dominoes when they have all been used.

**Tables**

♦ Practise the 3x, 4x and 5x tables. Say them forwards and backwards.

♦ Ask your child questions like: What are five threes? What is 15 divided by 5? Seven times three? How many threes in 21?

**Measuring**

♦ Use a tape measure that shows centimetres. Take turns measuring lengths of different objects, e.g. the length of a sofa, the width of a table, the length of the bath, the height of a door.

♦ Record the measurement in centimetres, or metres and centimetres if it is more than a metre, e.g. if the bath is 165 cm long, you could say it is 1m 65cm (or 1.65m).

♦ Write all the measurements in order.