Supporting your child at home

in Maths



A guide for parents

Year 3

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 from 0 in multiples of 4, 8, 50 and 100.

• Find 10 or 100 more or less than a given number.

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

• Read, write and compare numbers up to 1000 in numerals and in words.

**Number – Addition and Subtraction**

• Add and subtract numbers mentally, including three-digit number and ones, three-digit number and tens and three-digit number and hundreds.

• Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.

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

• Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

**Number – Multiplication and Division**

• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.

• Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.

**Number – Fractions and decimals**

• Count up and down in tenths.

• Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.

• Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.

• Recognise and show, using diagrams, equivalent fractions with small denominators.

• Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7].

• Compare and order unit fractions, and fractions with the same denominators.

**Geometry**

• Draw 2-D shapes and recognise 3-D shapes in different orientations and describe them.

• Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn. Identify whether angles are greater than or less than a right angle.

• Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

**Measurement**

• Measure, compare, add and subtract: lengths (m, cm, mm); mass (kg, g); volume, capacity (l, ml).

• Measure the perimeter of simple 2-D shapes.

• Add and subtract amounts of money to give change, using both £ and p in practical contexts.

• Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.

• Estimate and read time with increasing accuracy to the nearest minute and use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.

• Know the number of seconds in a minute and the number of days in each month, year and leap year.

**Statistics**

• Interpret and present data using bar charts, pictograms and tables.

• Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.

**Fun activities to do at home**

**Can you tell the time?**

Whenever possible, ask your child to tell you the time to the nearest 5 minutes. Use a clock with hands as well as a digital watch or clock.

Also ask: What time will it be one hour from now? What time was it one hour ago?

**Fractions**

Use 12 buttons, or paper clips or dried beans

♦ Ask your child to find half of the 12 things. Now find one quarter of the same group. Find one third of the whole group. Repeat with other numbers.

**Pasta race**

You need two dice and a pile of dried pasta.

♦ Take turns to roll the two dice. Multiply the two numbers and call out the answer. If you are right, you win a piece of pasta. The first to get 10 pieces of pasta wins.

**Digit Divide**

Make digit cards 0-9 cut out and place face down on a surface.

♦Choose 3 and make a 3 digit number . Ask your child to read aloud the number and then partition it. Eg - four hundred and fifty six → four hundreds, five tens and six ones.

**Up and down the scales**

♦ Guess with your child the weights of people in your home.

♦ Then weigh them (if they agree!). Help your child to read the scales.

♦ Record each weight, then write all the weights in order.

Repeat after two weeks. What, if any, is the difference in the weights?