



# Newnham St Peter's C of E Primary School

Term Ahead Letter: Term 4 2022

Alders (Year 5 and 6)

Mrs Allen, Mrs Robinson and Mrs Pearson

## **Maths Y5:**

The children will have one arithmetic lesson and four 'Learning Objective' lessons each week as well as daily opportunities to revisit previously taught concepts and times table practice, to secure their Mathematical knowledge and understanding.

This term, the children will cover:

### **Arithmetic**

- Long multiplication using a written method (2-digit number  $\times$  2-digit number)
- Long multiplication using a written method (3-digit number  $\times$  2-digit number)
- Short division (dividing a 3-digit number by a 1-digit number)
- Short division (dividing a 4-digit number by a 1-digit number)
- Multiply a decimal (one and tenth) by a one-digit number, e.g.  $5.2 \times 3$

### **Multiplication: Written Methods**

- Multiply numbers up to 4-digits by a one-digit number using short multiplication
- Multiply numbers up to 4-digits by a one-digit number using short multiplication
- Multiply a one-digit number by a decimal (2dp) using a formal written method.
- Divide a four-digit number by a one-digit number using short division.

### **Geometry: Position and Direction**

- Know what congruence means.
- Carry out a translation described using mathematical language.
- Carry out a reflection using a line parallel to the axes including touching the object.

## **Maths Y6:**

The children will have one arithmetic lesson and four 'Learning Objective' lessons each week as well as daily opportunities to revisit previously taught concepts and times table practice, to secure their Mathematical knowledge and understanding.

This term, the children will cover:

### **Arithmetic**

- Adding fractions (denominators multiples of each other within and beyond the whole; denominators not multiples of each other within and beyond the whole).
- Subtracting fractions (denominators multiples of each other within and beyond the whole; denominators not multiples of each other within and beyond the whole).
- Multiplying pairs of fractions (unit fractions; fractions with different numerators/ denominators)
- Dividing fractions
- Revision of all arithmetic based questions.

### **Calculating Fractions- Subtracting**

- Subtract proper fractions (denominators not multiples of each other) within the whole.
- Subtract proper fractions (denominators not multiples of each other) beyond the whole (mixed number answer).
- Subtract proper fraction from a mixed number (denominators not multiples of each other) fractions within whole.
- Subtract mixed numbers (denominators multiples of each other).
- Subtract mixed numbers (denominators not multiples of each other) fractions beyond the whole.

- Carry out a reflection using a line parallel to the axes and crossing the object.
- Describe a reflection.

### **Fractions, Decimals and Percentages**

- Identify equivalent fractions represented visually.
- Compare fractions whose denominators are multiples of the same number.
- Order fractions whose denominators are multiples of the same number.
- Represent tenths and hundredths.
- Write a number less than 1 with one decimal place as a fraction.
- Write a number less than 1 with two decimal places as a fraction.
- Write a number less than 1 with three decimal places as a fraction.
- Understand that per cent relates to number of parts per hundred.
- Write any percentage as a fraction with a denominator of 100.
- Write any percentage as a decimal.
- Know percentage equivalents of  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{5}$ ,  $\frac{2}{5}$ ,  $\frac{4}{5}$ .
- Establish percentage equivalents of fractions with denominator of multiples of 10.
- Establish percentage equivalents of fractions with denominator of multiples of 25.

### **Measurement: Area and Volume**

- Make connections between arrays and calculating the area of rectangle.
- Calculate the area of rectangles (not squares).
- Calculate the area of squares.
- Find an estimate for the area of shapes that are not rectangles.
- Find an estimate for the volume of a 3D shape.
- Estimate capacity.

### **English: Reading**

On a Monday, Tuesday and Wednesday, the children will have a whole class Guided

### **Calculating Fractions- Multiplying and Dividing**

- Multiply simple pairs of proper fractions.
- Divide a unit fraction by a whole number.
- Divide a proper fraction by a whole number (numerator = divisor).
- Divide a proper fraction by a whole number (numerator = multiple of divisor).
- Divide a proper fraction by a whole number (numerator not a multiple of divisor).

### **Ratio and Proportion**

- Find 10%, 25%, 50% and 75% of an amount.
- Find simple percentages of an amount (multiples of 10% and 5%).
- Find complex percentages of an amount (eg 17%, 28%, 63%).
- Use percentages to make comparisons.
- Find the value of the parts, given the whole.
- Find the value of the whole and parts, given one part
- Use scale factors to calculate dimensions in similar shapes.
- Use scale drawings.

### **Measurement: Converting Units**

- Convert between metric units from the smaller unit to the larger unit; e.g. cm to m, g to kg.
- Convert between metric units from the larger unit to the smaller unit; e.g. km and m.
- Convert between units of time units.
- Convert between miles and km.

### **Measurement: Area and Volume**

- Recognise that shapes with the same areas can have different perimeters and vice versa.
- Calculate the area of a parallelogram.
- Calculate the area of a triangle.
- Calculate the volume of cuboids, including cubes.

### **English: Writing**

This term, the children will be writing a narrative story, using 'Hansel and Gretel' by

Reading session which will focus on an extract from a text. The children will focus on 'DERIC' (Decode, Explain, Retrieve, Inference and Choice) style questions and be taught how to answer questions independently with a focus on one of these areas. On a Thursday, children will have further opportunities to access different texts, including non-fiction and poetry to build up fluency and confidence with reading comprehension.

Additionally, the children will have 'daily story time' where the teacher will read them a class book with a focus issue to be discussed and explored together. This term, the book will be: 'Letters from the Lighthouse' by Emma Carroll.

Neil Gaiman as their writing stimulus. Through a mixture of experience days and sentence stacking days, the children will be explicitly taught how to use relevant grammar and punctuation in their writing. At the end of the unit, the children will also go onto complete some independent pieces of writing based on the book as well as writing stimulated by other chosen texts.

Additionally, the children will have daily short sessions where they will have the opportunity to revisit and revise a specific grammar or punctuation focus.

**Spelling:**

The children will be taught a spelling rule or pattern and will focus on spelling and applying common exception words to sentences. They will also practise writing ten common exception words using the 'look, cover, write, check' approach on a daily basis when they come into school in the morning too. The common exception words will be used as a homework focus.

**Handwriting:**

The children will be following a continuous cursive handwriting scheme where they will practise their handwriting daily. The aim is to help children write neatly, with fluency and consistency, to improve their overall presentation in all books.

This term we will be concentrating on the curly caterpillar letters, which include the letters: c, a, d, e, s, g, f, q, and o. Children will practise handwriting as a focused morning job when they first come into school and continue to practise the cursive style in all written work.

**Science: How can we demonstrate and make use of the effects of changing components in electrical circuits?**

- Pupils will be taught to:
- Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.
  - Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.
  - Use recognised symbols when representing a simple circuit in a diagram.

**RE: What did Jesus do to save Human Beings?**

- In R.E, the children will learn:
- Christians believe that Jesus' sacrifice on the cross was a way of paying for all the sins of mankind. That as a result they have been 'saved' or rescued by God.
  - The outline of events of the crucifixion
  - Pupils will know about the Isaiah 53 passage and can make connections to John 19 using the idea of the suffering servant.
  - They know that Christians remember Jesus' sacrifice through the service of Holy Communion/ Lord's Supper/The Eucharist/the Mass). practice.

	<ul style="list-style-type: none"> <li>They know that some Christians feel called to sacrifice their own needs to the needs of others and they can give an example of this.</li> </ul>
<p><b><u>Geography:</u></b> In Geography, the children will learn the main cities and counties of England and how the topography varies.</p>	<p><b><u>DT:</u></b> In DT, the children will learn to use fabric and textile materials to make and sew a character from a fairy tale.</p>
<p><b><u>PSHE:</u></b> In PSHE, the children will be discussing and exploring personal responsibility through the question: How can I manage my feelings?</p>	<p><b><u>P.E:</u></b> This term, the children will have a P.E lesson every Wednesday taught by a specialist sports coach. The children will be doing Dance. Children will also have a further PE lesson each Friday morning which will be teacher led. The children will focus on Forest School Skills. The children <b>will need to have their PE kit in school on Wednesday and Friday</b> each week. It would be useful to keep a PE kit in their locker termly and keep it in school. Please refer to the school's PE uniform policy on the school website.</p>
<p><b><u>Computing:</u></b> The children will make use of Scratch and MakeyMakey to look at electricity and voltage.</p>	<p><b><u>French</u></b> This term, the children will be learning French shopping words.</p>
<p><b><u>Homework:</u></b> Homework will be set each Wednesday (term time only) and it needs to be submitted by the following Monday. The children will have Spelling, English and Maths homework set weekly onto Seesaw. The children will also have a topic grid where they will pick 3-4 activities to complete in the Spring Term. Your child needs to be reading 5 days a week at home and recording this into their reading record.</p>	
<p><b><u>Home Learning:</u></b> If your child is home from school because they have Covid and are self-isolating and is well enough to work, there is a pack of work available for this term on the school website- that should be enough if your child is home for a few days.</p>	