

Year 5 and 6 Autumn Term Curriculum Letter

English

During this term, we will be exploring the book *Tuesday through Talk 4 Writing*, which is a programme that focuses on developing children's writing ability through the use of discussion. We will begin by exploring the book through lots of exciting drama activities and grammar games to immerse the children in the story. As we will be focussing on writing setting descriptions, we will then 'learn' a setting description using the method of text mapping. After we have looked at various other setting descriptions, we will begin to plan our own using the 'boxing up' technique and complete a shared write as a class. Throughout the unit, we will be working on our specific skills to improve our writing, which we will then use in our independent writing.

Science

In science this term, we will be focussing on electricity. We will be using circuit components to investigate how circuits work and answer questions, whilst learning how to accurately draw circuits that we have made. We will also compare the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit, as well as giving reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.

Our Design Technology project relates to our Geography and Science topics this term. The children will be designing and making a bridge that opens and closes. The tasks and practical skills will focus on experimenting with materials of different strengths, discussing and explaining structures, mechanisms for opening/closing bridges and the electrical requirements for the bridge. Furthermore, children will develop their measuring, cutting, marking, joining and finishing techniques to make the bridge and evaluate it.

Our maths focus this term continues to focus on using the four operations as well as statistics focusing on the following learning objectives:

Add and subtract numbers mentally with increasingly large numbers.

Perform mental calculations, including with mixed operations and large numbers.

Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.

Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.

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

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

Multiply and divide numbers mentally drawing upon known facts.

Multiply and divide whole numbers by 10, 100 and 1000.

Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers.

Multiply multi-digit number up to 4 digits by a 2 digit number using the formal written method of long multiplication.

Divide numbers up to 4 digits by a one digit number using the formal written method of short division and interpret remainders appropriately for the context.

Divide numbers up to 4 digits by a 2 digit number using the formal written method of short division, interpreting remainders according to context.

Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.

Identify common factors, common multiples and prime numbers.

Recognise and use square numbers and cube numbers and the notation for squared (2) and cubed (3)

Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.

Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign.

Solve problems involving addition, subtraction, multiplication and division.

Use their knowledge of the order of operations to carry out calculations involving the four operations.

Solve comparison, sum and difference problems using information presented in a line graph.

Complete, read and interpret information in tables including timetables.

Interpret and construct line graphs and pie charts and use these to solve problems.

To calculate and interpret the mean as an average.

***Bold** writing represents Y6 Learning Objectives