

## ICT

Using the 'Espresso Online' scheme, children will develop their coding skills and learn to design and write programs that accomplish specific goals, including controlling or simulating physical systems. They will start to use sequence, selection, and repetition in programs and work with variables and various forms of input and output. They will be able to develop their logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs

## Art/Design Technology

Using their Science learning about electrical circuits children will enter 'The Dragon's Den!' Working in teams, they will follow a specification and present a design for a light up product. They will try to convince our 'in-house' team of dragons that their product could sell and then work together to build their unique product.

In Art lessons, the children will be inspired by the work of William Morris and produce their own surface pattern designs, thinking carefully about their use of colour.

## PE

We will start the year by developing skills in football. Year 6 will be working alongside Mr Corbett to improve. The children will work on their passing, shooting and tackling skills as well as teamwork. We will end the term by having a house competition where they will use the skills they have been developing together.

English Martyrs RC Primary School



Year 6



Topic Map - Autumn Term 2018 - 19



## **Literacy**

The children will start the term by becoming familiar with the Charles Dicken's novel 'Oliver Twist'. We will read extracts from the novel and complement our learning by watching a film of the story. The children will write a historical narrative based upon a scene from the film. We will be concentrating on using a variety of punctuation correctly to add interest to our writing. We will be ensuring that we use varied sentence openings and pay close attention to our spelling of statutory and common words. We will then draw upon our History learning and research and write a biography about a Victorian child, concentrating on including the language and structural features of a biographical text.

## **Numeracy**

We start the term by consolidating place value knowledge. We will be able to understand place value in 5 and 6-digit numbers, and order and compare 5 and 6-digit numbers. We will revise written methods of calculation in order to add and subtract pairs of 5 and 6 -digit numbers. We will move onto decimal numbers and ensure that we understand place value in numbers with 3 decimal places. We will multiply numbers with 3 decimal places by 10, 100 and 1000 and begin to round to the nearest whole, 0.1 or 0.01. We will use these skills to solve problems in a practical context, finding change from amounts of money and understanding decimal numbers using measurement as a context. We will make sure we can identify common multiples and factors and understand prime numbers. Moving onto fractions, we will be able to simplify fractions using multiples and factors. This will help us to compare and order fractions with unrelated denominators. We will end the term by revising our shape and angle knowledge and be able to name the parts of circles (radius, diameter, and circumference). We will start to classify and sort quadrilaterals and draw polygons to given lengths and angles. We will be able to find unknown angles in any triangle, quadrilaterals, and regular polygons.

## **Science**

We will be learning about Electricity. We will build and draw simple and parallel circuits using scientific symbols. We will learn about conductors and insulators and carry out a series of investigations that help us to compare and give reasons for variations in how components function within an electrical circuit.

## **RE**

We start the term by ensuring we understand the school mission statement and then move onto our first unit of Creation which will explore the story of Moses and the Ten Commandments. By knowing the story of Cain and Abel, we will know the importance of conflict resolution with regard to our relationship with God.

## **History/Geography**

Through our topic work 'Revolution' we will be looking at the social changes that took place during the reign of Queen Victoria. We will learn about child labour in the Victorian times, and the social changes that came about to try and make life better for those children. We will consider the impact of the ongoing Industrial Revolution on transport links, inventions and in our own town.

### **Note:**

This leaflet provides a very broad outline of the topics which are planned for this term. Some adjustment may be necessary as the term progresses.

We recognise that every child progresses at a different rate in different subjects. These individual needs are built into the teachers' differentiated planning.