

## **DT: Playgrounds**

Light it up  
Electrical Systems  
Simple circuits and switches  
Children will study a variety of lights, describing some of their features, e.g. the way they reflect light, how they are designed to be free-standing. They may then label and describe the features of a light, or examine a variety of different lights.



# **Topic Map: Year 5 Term: Autumn 2**

## **TITLE: Joy**



## **Geography**

### **What do Wales and Argentina have in common?**

In this topic we will learn what Wales and Argentina are famous for.  
Children will learn to locate places on a globe and a world map. They will be able to give examples of sustainable development and conservation in Patagonia.

## **Computing**

### **Create / Search Database**

In this unit the children will use Excel to create and search a database. Over the term, children will select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.

## **Music**

Children will learn songs for their Christmas nativity, focusing on vocal technique, confident performing and harmony.

## **R.E**

Advent is a time when we appreciate the love in our lives and prepare to celebrate love becoming a reality in the person of Jesus. Christians at Christmas celebrate the gift of Jesus, given by God as a sign and expression of God's love. Giving and receiving reflects the truth that all life is given by God and life is given meaning through the gift of Jesus.

## **WOW Experiences**

KS2 Nativity

## **PE**

**Basketball** - Children will develop key skills and principles such as defending, attacking, throwing, catching, dribbling and shooting.

**Yoga** - Pupils learn about mindfulness and body awareness. They learn yoga poses and techniques that will help them to connect their mind and body.

## **French**

Children will learn about Clothes (uniform) + adjectival agreement of colours.  
Children will listen to the 'Get Dressed Robert' story .(listening comprehension]  
They will learn about time - ¼ past and ¼ to.  
Children will learn about 1 – 69 counting in 2s/5s/10s.  
Children will learn about clothing linked to Christmas.

## **PSHCE**

### **Celebrating Difference**

Children will explore the differences between direct and indirect types of bullying and can offer a range of strategies to help themselves and others if they become involved (directly or indirectly) in a bullying situation. They will recognise why racism and other forms of discrimination are unkind and express how they feel about discriminatory behaviour.

## **Class Novel**

Room 13 - Robert Swindells

## English

### **Instructions**

Children will look at the format and structure of instructional texts. They will focus on the SPaG features such as imperative verbs, present perfect tense and precise, accurate language.

### **Novels and stories by significant children's authors**

Children will study Kensuke's Kingdom and The Giant's Necklace by author Michael Morpurgo. They will look at the comparison between these texts and use these as models to help them with their own creative writing-including describing settings, characters and atmosphere and integrating dialogue to convey character and advance the action.

### **Creative writing week**

Children will use this week to explore many of the different genres they have studied already this year such as narratives, instructions and free verse poetry. They will apply their writing skills by responding to a given stimulus in creative ways.

### **SPaG**

Children will study several spelling patterns this term including *cious*, *tious*, *ial*, and *ant*.

Our class focus this term for punctuation and grammar is using modal verbs or adverbs to indicate degrees of possibility, using commas to clarify meaning and using expanded noun phrases to convey complicated information.

## Mathematics

### **Multiplication and Division**

Children will begin the half term by finishing off their previous topic on multiplication and division.

### **Word Problems**

In this chapter, pupils are solving word problems that involve multiple steps and a variety of operations. Pupils begin the unit by simply choosing the correct operation before moving onto representing the key information using bar models. Applying the strategies learned in previous units is key in solving the challenges. The chapter ends with complex representations of numbers and change using advanced bar models.

### **Graphs**

In this chapter, pupils read and interpret information in tables and line graphs. The first lesson requires pupils to read and interpret information presented in a table showing flights between Singapore and London. In the next lesson, they are required to use the data to answer questions, however the data has restrictions and must be sorted. The final lesson on tables leaves out key information, such as omitting a train time to indicate the train does not stop at a specific station. Then there are four lessons on line graphs, beginning with a single line to represent a given set of data, followed by constructing line graphs that have more than one data set to represent.

## Science

Our pupils will spend this half term becoming real scientists, engineers or mathematicians. They will start by examining existing solutions to everyday problems relative to them.

They will interview real people who work in the science, technology and math (STEM) industries. Through research and annotated designs, children will develop their inventions over time.

Pupils will focus on the purpose of the solution, e.g. to help others, health benefits, environment etc and the technology(ies) that could be used such as: transport, internet, entertainment and medical.

Pupils will enter their designs into a national competition to have their prototype made.