

## Year 5 Overview

### Science— Space

### Topic— Full Power



We have quickly settled back into our routines as we continue to embrace our school values of 'Respect, Enquire & Persevere'.

The Pursuit of Greatness continues. The children will regularly ask questions to further their understanding of these values.

#### RESPECT

#### ENQUIRE

#### PERSERVERE



### Important information and dates for your diary:

**Year 5 PE** on Monday. **Swimming** on Wednesday

**Home Learning** : Activities for your child to complete over the weekend will be shared via your child's planner.

Date for your diary:

Maths Workshop: Thursday 3rd May at 2.30pm

Coffee with the Head: 24th April 2018 at 2.30pm

Half term: 28th May - 1st June 2018

### English

#### Spoken Language:

We will continue to encourage your child to speak articulately and in full sentences. There will be plenty of opportunities in the curriculum for the children to talk and become confident speakers to different audiences.

**Reading:** Your child will be heard to read during our Guided Reading sessions. Children will also have a reading book sent home appropriate to their reading age.

#### How can you help?

Reading with your child for 5—10 minutes everyday will make a difference. Please record reading with your child in their planner. Children should have their reading book and planner in school everyday.

**Spelling:** These will be sent home on Fridays, recorded in your child's planner and the children will be tested the following week.

**Handwriting:** We have high expectations with how our children present their learning. Please encourage your child to practise their handwriting.

**Writing** : We will be trekking to the depths of space to become reporters and researchers, feeding back about life on another planet. We will get creative, producing newspaper reports and diary entries, as well as non-fictional writers, creating non-chronological reports. We will continue to incorporate and apply the grammatical skills and spelling rules learnt.

### Maths

**Recapping all four operations (+ - x ÷):** Formal and mental methods for addition, subtraction, multiplication and division problems will continue. The children will also be heavily involved in problem solving and reasoning. *Your child will need to know all of their times tables.*

#### Statistics:

The children will become confident in collating, interpreting and presenting their own data. They will also build their skills of interpreting and reasoning with secondary data, presented in tables and line graphs in particular.

#### Geometry:

The children will recap on the properties of 2D and 3D shapes, distinguishing between regular and irregular polygons. They will confidently measure and draw a full range of angles and identify, describe and represent the position of a shape following a reflection or translation.

**Science:** Living Things and Habitats

**IPC:** Full Power—please see the curriculum map attached. During this unit we will be focusing on science, history and technology.

**PE:** Swimming, yoga and net games

**RE:** Exercising self discipline, being thankful, imaginative and explorative

**French:** Habitats

**Peacemakers:** What part of my community do I know? Which I don't know? How could I find out more?



IPC- Full Power



Science- Space

"To have an awareness of ourselves and others."



In Science, we'll be finding out:

- How to make an electrical circuit
- How we can change a circuit
- How to draw a circuit diagram
- How to build circuits from diagrams
- About different kinds of circuits
- About electricity and heat
- About the dangers of electricity

In Technology, we'll be finding out:

- How to make an electric wire-loop game

In History, we'll be finding out:

- Who discovered electricity
- Important electronic discoveries and inventions which have resulted in our modern world.

In International, we'll be finding out:

- About issues concerning electricity in the future
- What might happen in a power cut scenario

Full Power vocabulary:

**Battery** – a container that stores electrical energy  
**Charge** – to increase the power in something  
**Component** – a part of an electrical circuit  
**Conductor** – a material that allows electricity to flow through it  
**Contact** – the metal part that can be connected to a circuit  
**Current** – a flow of electricity in a circuit  
**Current electricity** – electricity that flows through wires  
**Electron** – a negatively-charged particle in an atom  
**Energy** – the power to make things move and work  
**Generator** – a machine that makes electricity from wind, water, steam, gas or nuclear power  
**Insulator** – a material that does not allow electricity to flow through it  
**LED** – a light emitting diode  
**Motor** – a motor can turn electricity into movement  
**Static electricity** – electricity that builds up in one place  
**Switch** – a gap that can be closed to allow electricity to flow or opened to stop the flow  
**Turbine** – a machine that can make electricity though wind, water or steam power  
**Voltage (symbol V)** – a measure of stored electrical potential, named after Alessandro Volta  
**Watt (symbol W)** – a unit of electrical power named after the inventor, James Watt

In our Earth and Space topic, we'll be learning how to:

- Describe the movement of the Earth and other planets relative to the sun in the solar system
- Describe the movement of the moon relative to the Earth
- Describe the sun, Earth and moon as approximately spherical bodies
- Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.



Additional learning resources for Home Learning Opportunities:

[Alliant Energy Kids website has information about how electricity is made and how it gets to our homes.](#)

[Cleo website allows you to build and test your own circuits in Cleo Circuit World.](#)

[Explain That Stuff website contains information about electricity.](#)

[Kids and Energy website has information about electricity generation and production.](#)

[Save on Energy website has a Kids' Corner with information on electricity aimed at children.](#)

[The Blobz Guide to Circuits provides useful animated revision slides for children.](#)

[The British Energy website has an animated timeline of electricity.](#)