Power Up!

Exploring the wonders of electricity.

I will know about.... I will remember about....

English:

- Whole Class Reading – 4 sessions most weeks
- Reading for Pleasure sessions
- Class story most days
- Library session on Mondays
- Writing units including: Character description, Poetry writing, Explanation texts and Recounts
- Standalone grammar sessions, including: Full stops, capital letters, question marks, and exclamation marks, Sentence types, Commas in lists, Nouns, verbs, adjectives, and adverbs, Adjectives to create expanded noun phrases, and Conjunctions.

Topic: Science-based

Science- based: 'Electric Celebrations' to include:

- I can associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.
- I can 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.
- I can use recognised symbols when representing a simple circuit in a diagram.
- I can plan different types of scientific enquiries.
- I can record results using scientific diagrams and labels.
- I can use test results to make predictions to set up further comparative and fair tests
- I can report and present findings from enquiries.

Maths:

- Place value, including: Numbers up to 10,000,000, Rounding, Numbers before the decimal point, Negative numbers, and Comparing and ordering numbers
- 4 operations, including:
  - Addition and subtraction of numbers greater than 1000
  - Short multiplication
  - Long multiplication
  - Short division
  - Long division (Y6 only)
- Primes, factors, and multiples
- Square numbers and cube numbers
- Order of operations
- Fractions, including:
  - Equivalent fractions
  - Simplifying fractions
  - Comparing and ordering fractions
  - Mixed numbers
  - Improper fractions
  - Converting between mixed numbers and improper fractions
- Roman numerals

Homework:

Please read something at home every day. Children in Team 4 do not need to read aloud to an adult. They can also fill in their own reading records. Any reading is good reading!

We like the website https://www.topmarks.co.uk/ for Maths games, including 'Hit the Button'.

This term's Pick and Mix homework grid is shown below.

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PSHE: Me and My Relationships

- Feelings
- Friendship skills, including compromise
- Assertive skills
- Cooperation
- Recognising emotional needs

Music: Swindon Music Services providing the sessions with Mr Sayers

Art: Making Monologues

- I can study drawings made by other artists and identify marks they have used in their drawings.
- I can use my sketchbook to make a collection of marks and to explore ideas.
- I can use my mark making skills to create monotypes, combining the process with painting and collage.
- I can share my thinking and outcomes with my classmates.
- I can photograph my work, thinking about lighting, focus, and composition.

Computing: Coding

- I can use external triggers and infinite loops to demonstrate control.
- I can use conditional statements and edit variables.
- I can keep testing my program and recognise when it needs to be debugged.
- I can decompose a problem/task into smaller parts to design an algorithm for a specific outcome and use this to write a program.
- I can keep testing my program and recognise when it needs to be debugged.

Religious Education: Understanding Christianity

PE: Mondays and Fridays

Yoga and Invasion games (rugby/netball)

Pick and Mix Homework:

Choose at least three of the ideas below and post it on SeeSaw or bring it in to school.

Please complete the tasks before the Christmas holidays begin.

You can choose how you approach and present your chosen tasks. Be creative and have some fun with the tasks. When using the internet or anything potentially dangerous, such as tools or electrical appliances, you MUST check with a trusted adult.

Static Electricity Research and perform a static electricity experiment, such as rubbing a balloon on your hair. Record your observations and explain the science.	**Green Electricity** Research green alternatives to producing energy. Create a piece of work explaining one, a few or a selection of these green alternatives.	**Electrical Safety** Design a poster highlighting important electric safety rules. They should include tips on how to handle electrical devices safely and what to do in case of an electrical emergency.
Electricity Usage Keep a diary of all the electrical devices you use in just one day. Estimate how long each device is used for. Come up with ways to reduce electricity usage and conserve energy.	**Pioneers of Electricity** Research an inventor who made significant contributions to the field of electricity, such as Thomas Edison or Nikola Tesla.	**Electricity in Nature:** Research a natural phenomenon related to electricity, such as lightning or electric eels. Explain how this phenomenon occurs and its significance in nature.
DIY Electromagnet Make a simple electromagnet using a battery, wire, and a nail. Test your electromagnet by picking up small metal objects.	**Make a Battery** Can you make a battery out of a lemon or a potato? How do you do it? What can it power?	**Electric Free** Can you go a whole day without using any electricity? What can you do if you aren't using any electricity? Make a list of the fun things you can do without it.