

**Science:**

Find different energy sources around the school and label them. Use catalogues to create a display of examples. Name light, heat, sound, movement and electricity as examples of forms of energy.

Take part in hands-on science experiments, which allow investigations of the forms of energy e.g.

Vibrations, shadows

State the importance of these energy sources in everyday life and how they are used - picture game.

Work in groups to provide some ideas as to how we can save energy and create posters.

Explain the difference between Renewable and Non-Renewable energy.

Research the importance of energy sources for the survival of living things using Tigtag Science. Create simple food chains.

Create fair tests around movement of objects e.g.

Dropping objects, toy cars on ramps etc.

Create a game using magnets.

List things that use electricity. Make a simple electric circuit. Make a card/model with flashing light.

**Social Studies:**

Compare and contrast differences in energy sources used in the past compared to now.

Create posters about caring for the environment and different ways of saving energy and share with the rest of the school and community.

# ENERGY

**Learning Outcomes:  
Pupils will be able to...**

**Visiting teachers**

**Art:** Spooky trees, art connected to music, sculpture, Shetland artists and Christmas folklore printing.

**Music** Developing performing and singing skills for the Christmas Concert.

**P.E** The class will experience invasion games in the form of Basketball. They will learn and develop the skills and strategies required to play the game. Through these practices and conditioned games we will also work on fitness, confidence and self-esteem. The pupils will also have the opportunity to referee

**Expressive Arts:**

Role play being Scientists.

Observational Drawings of household appliances that use energy. Shiny pictures. Design warm clothes for winter. Shadow snowmen.

Using instruments to create Sound stories. Sound quiz. Discuss pitch and volume.

**Health and Wellbeing:**

Suggest ideas on saving energy to the Eco-school group. Group monitors in charge of different aspects of conserving energy in school.

Discuss electrical safety and potential dangers at home.

**Literacy and English:**

Label diagrams and objects. Write instructions for and results of experiments. Debate in groups pros and cons of modern technology e.g. Ipad, phones.

Prepare a presentation about a toy/ appliance that gives of a type of energy.

Write poems -Sound poems, link to Bonfire night and fireworks.

Imaginative writing - inventing a machine, having a super power.

Reading instructions and finding information from books and the Internet.

**Numeracy and Mathematics:**

Maths calculations linked to Science experiments where pupils must use appropriate units of measurement.

**RME:**

Christmas story and related activities.

Discuss the significance of Light in other cultures e.g. Diwali

**French**

Introduce new vocabulary for saying what the weather is like, classroom objects and continue to reinforce numbers, days and months. Songs and games around Halloween and Christmas topics.

**Technologies:**

List and display modern technology used in communication today.

Design a product of the future with an energy focus.

Work in pairs and small groups on design challenges about light, sound and magnetism.

Create a PowerPoint giving examples of different types of energy being used by various objects.

Use the internet to search and find information to answer questions.