

# NEA 'Let's be more energy efficient'

## KS2 – Assembly



Let's be more energy efficient assembly

### **KS2 Curriculum Links:**

#### **Science:**

- Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.

#### **Geography:**

- Human geography, including types of settlement and land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals, and water.

### **Programme of Study Links:**

#### **PSHE:**

- Choices that support a healthy lifestyle and recognise what might influence these.
- How to recognise that habits can have both positive and negative effects on a healthy lifestyle.
- Everyday things that affect feelings and the importance of expressing feelings.
- Problem-solving strategies for dealing with emotions, challenges, and change.
- how to predict, assess and manage risk in different situations.

#### **Citizenship:**

- Talk and write about their opinions, and explain their views, on issues that affect themselves and society.
- To recognise and manage internal and external influences on decisions which affect health and wellbeing.

### **Green Skills:**

#### **UNESCO Key concepts**

##### **1.2 Greenhouse gases**

- Raise the awareness of family members regarding greenhouse gas emissions due to people's activities, which are causing global warming and associated problems.

##### **4.5 Urgency and community action**

- Adopt sustainable practices such as turning off lights and electronics when not in use.

##### **5.4 Energy consumption and carbon emissions**

- Observe energy use at home and other places.
- Make informed choices about energy consumption.

## **UN Sustainable Development Goals:**

- No poverty
- Good health and well-being
- Affordable and clean energy
- Sustainable cities and communities
- Climate action

<b>Introduction</b>	The 'Let's be more energy efficient' assembly focuses on the use of energy (gas and electricity) around our homes and buildings. It considers how the burning of fossil fuels impacts our environment and the current expense associated with energy. It looks at simple, energy-related behaviour changes that can be made to become more energy efficient.
<b>What sorts of energy do we use to power our homes and buildings?</b>	Highlight the use of gas and electricity as the primary energy providers.
<b>How do we use electricity?</b>	Ask learners the question. Give time for feedback Consolidate with presentation content.
<b>How do we use gas?</b>	Ask learners the question. Give time for feedback Consolidate with presentation content.
<b>Energy is useful</b>	Emphasise the importance of energy for our everyday tasks.
<b>How is most of our energy produced?</b>	Discuss the burning of fossil fuels. Potential to go into further detail where they are sourced from.
<b>Where does the electricity go?</b>	Explanation that after it is produced in the power station, the electricity is carried by wires to our homes and buildings.
<b>How does gas get to our homes?</b>	Gas is also produced at power stations but is carried to our homes and buildings via pipes that are underground.
<b>What happens to our environment when we burn fossil fuels.</b>	Focus on air pollution from the burning process and how this contributing towards global warming. Further explanation of global warming may need to be included.
<b>Electricity and Gas is Expensive</b>	Emphasise the expense of electricity and gas and what this means for bills and costs for homes.
<b>We need to help!</b>	A call for action
<b>Energy Animation</b>	The embedded animation has a focus on energy efficiency, predominantly around electricity. The young person (Jack) uses lots of energy in his bedroom and isn't aware of the impact that his actions have on the environment and energy bills. The energy use in his home is displayed on the in-home display that is connected to a smart meter (this may need further explanation)

	<p>He becomes more aware of how to be energy efficient through the learning received at school. This initiates a behaviour change and highlights the impact that people of all ages can have.</p> <p>There are pause points throughout the animation for further discussion to take place:</p> <p><b>43 seconds</b> – Things that use energy?</p> <p><b>1 min 35 seconds</b> – How can we help the environment and help at home? Encourage learners to suggest simple energy saving measures</p> <p><b>2 mins 9 seconds</b> – What could Jack have done to save energy at home? Learners to identify ways in which Jack could have saved energy Turn bedroom lights off Don't leave things on charge for longer than needed Switch devices off standby mode (tv / games console) Close bedroom doors to maintain heat</p>
<p><b>We can be the change / Little changes can have a big impact!</b></p>	<p>Review learning and link energy behaviour changes back to positive outcomes related to environmental and financial challenges.</p>
<p><b>NEA in school workshops</b></p>	<p>If you would like to find out more about the workshops the NEA can deliver in your school, please visit: <a href="#">Educational Resources - National Energy Action (NEA)</a></p>