

Session One: Lesson Plan

Subject: Electricity

Objectives:

Students should understand that:

- Electricity is a form of **energy**
- We use electricity all the time for many everyday **appliances**
- Electricity is made in **power stations** by burning **fossil fuels**

Starter:

Activity 1 – Life without electricity

10 mins

What is electricity? – It is hard to describe because we can't see it, hear it or feel it but electricity is a type of energy that we use to do work for us.

Class discussion, using pictures about how we did things before electricity and the difference it has made to our lives.

Main Session:

Activity 2 - How is electricity produced?

15 mins

Show PowerPoint slides and short cartoon clips from

www.sciencemuseum.org.uk/energy that show how a power station works and how fossil fuels developed.

Activity 3 - Research fossil fuels

45 mins

Split into three groups – Coal, Oil and Gas. Give out relevant fossil fuel props.

Groups should find the answers to the following questions using the fact sheets and pictures provided.

- How is their fuel made
- Where does it come from
- How do we use it
- That it will run out
- Its environmental impact

Present the findings to the rest of the class

Activity 4 – Moving electricity

10 mins

Explain that the electricity must be “moved” from the power station to our homes, shops, school, offices, factories etc. Show cartoons from the E-On website

www.eon-uk.com/EnergyExperience/93.htm

Plenary:

Activity 5 - The Power Line

15 mins

Hand out cards and ask the children to sort themselves into the right order. Narrate story of how electricity gets to our homes with the children supplying actions.

Send the power down the line - invent a Mexican wave with actions or noise.

Homework:

Activity 6 - Power cut!

Fill in the worksheet by suggesting alternative actions instead of using electricity.