

Session Three: Lesson Plan

Subject: Energy saving

Objectives:

Students should understand:

- How energy can be **wasted** at home and school.
- That there are many ways we can **stop wasting energy**.

Starter:

Activity 15 - Climate change quiz (recap)

5 mins

Answer quiz questions on mini whiteboards – mark together.

Main Session:

Activity 16 - Efficient technology

10 mins

Introduce energy efficiency using light bulb props.

Discuss energy labelling using examples as a way of showing the purchaser how efficient the appliance they are buying is.

Activity 17 - Stop the great escape

45 mins

An experiment using different materials to keep the heat in a drink can.

Split class into 5 groups and each test a different material.

Fill in charts and graphs at timed intervals.

Energy word searches can be used between each temperature reading.

Activity 18 – Saving behaving

Show a short film on saving energy in the home.

30 mins

Demonstration with a Smart meter used to plug in appliances and see how much electricity they use.

Complete a worksheet calculating how much different appliances use and how much could be saved at home.

Plenary:

Activity 19 – Energy Efficient House

15 mins

Interactive discussion using picture cards and a model house to think about how to be energy efficient.

Homework:

Activity 20 - Energy meters

Find the electricity meter at home and take a reading (need adult supervision), learning about what the meter is showing.