

Session 2: Lesson Plan

Subject: Climate Change

Objectives:

Students should understand:

- What the **greenhouse effect** is
- How humans produce greenhouse gases including **Carbon Dioxide**
- That changes are happening to our **climate** which are having various effects in different parts of the world

Starter:

Activity 7 - True or false energy quiz

5 mins

Children stand up or sit down in answer to the questions that recap on session one.

Main Session:

Activity 8 - Greenhouse experiment

5 mins

Set up the experiment and ask the children to vote on which earth will get hotter. Return to this later in the session.

Activity 9 - The greenhouse effect

10 mins

Introduce the greenhouse effect using animation on the Science Museum website:

www.sciencemuseum.org.uk/energy

Activity 10 - Greenhouse effect play

30 mins

Split class into two groups, hand out script and allocate parts.

Give 10 minutes to practice then each group will perform to the rest of the class.

Activity 11 – Global warming model

15 mins

Build up the 2D model on the floor with help from the students.

Return to experiment - discuss that the greenhouse effect leads to global warming which leads to changes in our climate.

Define weather and climate.

Activity 12 - Short film about Climate Change

10 mins

After showing video hand out question sheet to discuss - after a few minutes show video again and go through answers to the questions.

Plenary:

Activity 13 – Where in the world

20 mins

Sit in a circle around a world map, hand out weather picture cards and discuss the effects of climate change placing the picture cards on the relevant continents.

Homework:

Activity 14 - Changes

Worksheet with a list of climate changes, answer two questions for each: how will it affect me? How will it affect things around me?