

# PLANET COOL

<b>TIME REQUIRED</b>	1 Hour	<b>LESSON RESOURCES</b> <ul style="list-style-type: none"><li>• Web access</li><li>• Greenhouse Effect interactive</li><li>• Before and After [Flash cards]</li></ul>
<b>INTENDED AGE RANGE</b>	KS1	
<b>CURRICULUM AREAS</b>	The World Around Us, Language and Literacy, Personal Development and Mutual Understanding, The Arts, Mathematics and Numeracy	

## LEARNING OBJECTIVES

- To understand what climate change is.
- To discover how wildlife is at risk from climate change.

## DIFFERENTIATION

Pupils work in mixed ability groups supporting peer mentoring for weaker students.

## PRIOR KNOWLEDGE

Pupils need to have some understanding that:

- There are different forms of energy.
- Sources of energy can be renewable or non-renewable.
- Electricity is a source of energy.

## LINKS TO THE CURRICULUM

These lesson plans have been designed to support teaching of the curriculum for Northern Ireland. A brief summary of how curriculum objectives are met is included below.

## NORTHERN IRELAND

### The World Around Us

Pupils discuss the issue of Climate Change; they do this by focusing on the Greenhouse effect.

### Language and Literacy

Pupils watch an interactive presentation on the Greenhouse Effect; they then engage in a card game involving the effects of climate change, reinforcing what they have learned in the lesson.

### Personal Development and Mutual Understanding

Pupils discuss how human activity causes climate change and the effects this has on animals.

### The Arts

Pupils draw an animal that is at risk from global warming.

### Mathematics and Numeracy

Pupils have to solve a problem associated with penguins.



## ECO-SCHOOLS

The delivery of these lessons and activities will help your school qualify for an Eco-Schools Award. To gain an award you will need to show that environmental issues have been covered in curriculum work. You can find the Curriculum links included at the end of this lesson plan.

## STARTER ACTIVITY

5 MINS

Before showing the pupils the **Greenhouse Effect Interactive**, engage with them by asking them the following questions.

**Q: What is a greenhouse?**

**Q: Why do people use Greenhouses?**

**Q: Who has been inside a Greenhouse and what does it feel like?**

Teacher uses the Greenhouse Effect presentation to introduce the topic of Climate Change to the pupils and discuss any issues that arise from it.

## MAIN ACTIVITY

15 MINS

**Activity Resource: Greenhouse Effect interactive**

Show pupils the **Greenhouse Effect interactive** discussing any issues which may arise from it.

Discuss the topic further by asking the pupils the following question:

**Q: How does human activity cause climate change?**

## GROUP ACTIVITY

15 MINS

**Activity Resource: The effects of climate change flash cards**

Arrange pupils into mini task teams and distribute sets of cards to each team and get them to match up the before and after images. Ask the pupils to talk about what effects climate change has on the Earth.

By looking at these images children will be able to see some of the effects of climate change.

## EXTENSION

20 MINS

Encourage the pupils to talk about what they've learnt in the lesson.

- The Greenhouse Effect is a result of climate change.
- Climate change has a negative effect on the environment.

Have a discussion with the pupils on how climate change affects animals; use the following question to start the discussion

**Q: Which animals have been affected by climate change?**

Each child then chooses an animal and researches the following questions:

**Q: Where does this animal live?**

**Q: What is the climate like where this animal lives?**

**Q: What food does this animal eat?**

Ask each child to draw an A4 picture of their animal and write the answers on the body of the animal they have drawn.

The pupils can then think about how their chosen animal would survive if the climate continues to change; get the pupils to add a speech bubble to each animal saying what would happen to their habitat and how they would survive if the climate changed.

## MATHS QUESTION

5 MINS

If a baby penguin eats 2 fish a day, how many fish will it eat in a week?