

Energy and Climate Change

Objective: Identify and evaluate different sources of heat and their environmental impact.

Introduction: The climate of the whole earth is really changing and it is affecting those who live in the North somewhat faster than those who live in the south. The global climate is the average climate over the entire planet, and the planet is warming up faster than ever before in history. Scientists have discovered that we are causing the warming, and it is our job to learn what we can do to slow down the warming.

Curriculum Connections:

Students will investigate and interpret linkages among landforms, water and climate.

Supplies / Materials:

- Science Journal
- Bristol board
- Markers

Hook: Watch a short video explaining climate change:

<https://youtu.be/Sv7OHfpIRfU>



SCIENCE FOCUS

Lesson Subject

Science 8

Topic

Climate Change

Location

Classroom

Length

50 mins



Intro Activity: Teacher leads a discussion using a KWL chart about climate change, asking students what they know, and what they want to know about climate change.

Afterwards it would also be good to create a brain storm about what they already know about heat, temperature and climate change.

Main Activity:

Students work in small groups to research information about different sources of heat and create a table listing advantages and disadvantages of each their source.

Independent Student Work: Students create an informative poster in pairs about ways we can take action on climate change. Ideas can include walking to school, wearing sweaters and turning the heat down, reducing energy consumption, planting trees, starting a recycling initiative, etc.

Conclusion / Review: Students present their posters to the class and find a place in the school to hang them up.

Homework: Finish working on poster if unable to complete it during class time.

Resources:

1. <http://www.climatechange.gc.ca/default.asp?lang=En&n=E18C8F2D-1>
2. <http://climatekids.nasa.gov/climate-change-meaning/>