

Global Warming Basics & Local Climate Change Impacts

Ashland Middle School Presentations

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Organized by Kathy Nguyen, Manzanita Science Teacher, Ashland Middle School
Plan (30 minutes) “Slides” refer to power point

I. Intro

Slide 1: Title: Global Warming Basics & Local Climate Change Impacts

Slide 2: Global Temperature Increases (1/1 minute)

II. Basics of global warming (7/8 minutes)

Slide 3/4: Basics of Global Warming

- Incoming visible radiation
- Hits the surface and turns into infra-red/heat radiation
- Passes out

Slide 5/6: Increasing greenhouse gas concentration

- Same as previous slides, but now more heat is retained so less passes out into space

III. Identify the main greenhouse gasses that are responsible for the problem and their sources (3/11 minutes)

Slide 7/8: Identify Main Greenhouse gases: CO₂, Methane, Nitrous Oxide

Slide 9: Sources of Greenhouse gases: Coal, Oil, Natural Gas

IV. Local Impacts

- Groups each get one of the 3 local trends/projections (temperature, precipitation, snow pack) OR 2 consequences (soil moisture and wildfire) with graph or information about it. They prepare to share with the class (5/16 minutes)

Slides 10 - 17

- Power point has the information that the group received and the graph/information is shown while a person from the group explains their information (7/23 minutes)

Summary (2/25 minutes)

Slide 18

Questions for Part IV – Write down in their notebook:

1. Temperature: What are the temperature trends?
2. Precipitation: What are the precipitation trends?
3. Snow pack: What is the snow pack trend?
4. Soil moisture: What are the consequences of the trends in soil moisture?
5. Wildfire: What are the trends in western wildfires?