

Climate Change Presentation

Primary Slide Show Summary

1. What is Climate and Climate Change
 - a. Weather over a long time
 - b. Temperature and precipitation is measured
 - c. Ice covered large part of Earth
 - d. Earth getting warmer
 - e. Humans causing some problems
2. Pretend spaceship voyage
 - a. Earth as a spaceship
 - b. Goes around the Sun once a year
 - c. What is needed on a spaceship – air, water, food
 - d. Explore air – oxygen/carbon dioxide
3. Nature's recycling method
 - a. Photosynthesis
4. Greenhouse (GHGs)
 - a. Greenhouse effect
 - b. Greenhouse gases
 - c. Atmosphere
5. Review
 - a. Lesson
 - b. Summary of greenhouse gas effect
6. Increase in GHGs
 - a. Human activities
 - b. Fossil fuels
7. Effects of more GHGs
 - a. North and South Poles
 - b. Tropics
 - c. Local
8. How Can We Help
 - a. Water
 - b. 4 R's and 1 C
 - i. Recycle, reduce, reuse, re-think, compost
 - c. Food
 - d. Anti-idling
 - e. Trees
 - f. What else?
9. Conclusion
 - a. Learn how our planet works
 - b. Take notice of our environment
 - c. Learn how to live without making a mess

Background Information:

North and South Poles

Sea ice is 24% below the 1979 – 2000 historical averages

Greenhouse Gases

Carbon Dioxide is emitted naturally through the carbon cycle and human activities; CO₂ is 35% higher in concentrations since the Industrial Revolution in the 1700s

The Greenhouse Effect

The Earth receives energy from the sun and then radiates much of this energy back toward space. However, certain gases in the atmosphere, called greenhouse gases, absorb some of the outgoing energy and trap it in the atmosphere. This "greenhouse effect" occurs naturally, but human activities have substantially increased the amount of greenhouse gases in the atmosphere, causing the Earth to trap more heat. This in turn is changing the Earth's climate.