

REAPS READER



Have you helped the environment today?

Climate:

The weather conditions prevailing in an area in general or over a long period

Weather:

The state of the atmosphere at a place and time as regards heat, dryness, sunshine, wind, rain, etc



Make A Thermometer

Climate & Weather Quiz

What are the scientists who study the weather called?

- A. Rainologists
- B. Meteorologists
- C. Biologists

Which of the following do NOT affect the climate?

- A. Cars
- B. Oceans
- C. Wearing a rain coat

What was the lowest air temperature ever recorded in Canada?

- A. 20 degrees Celsius
- B. -45 degrees Celsius
- C. -63 degrees Celsius

What is "permafrost"?

- A. Frozen Soil
- B. A super-turbo freezer
- C. Cores of ice, that scientists study to figure out what the weather was like a long time ago.

What are green house gases?

- A. Gases that trap heat above the earth
- B. Gases that are made by plants growing in greenhouses
- C. Gases that are used to heat greenhouses so they are warm enough for plants to grow.

Which of the following is NOT a source of methane gas?

- A. Cows
- B. Landfills
- C. Clouds

B,C,C,A,A,C
Answers

MATERIALS:

clear, plastic bottle (11oz. water bottle works)
water
rubbing alcohol
clear plastic drinking straw
modeling clay
food coloring

PROCESS:

Fill about 1/4 of the bottle full with equal parts of water and rubbing alcohol.
Add a few drops of food coloring.
Put the straw in the bottle, but don't let it touch the bottom.
Use the modeling clay to seal the neck of the bottle, so the straw stays in place. (Make sure the straw does not touch the bottom of the bottle.)
Hold your hands on the bottom of the bottle and watch the mixture move up through the straw.

EXPLANATION:

Why does this happen? Just like any thermometer, the mixture expanded when it was warmed. This made the mixture no longer fit in the bottom of the bottle. As the alcohol expanded the colored mixture moved up through the straw. If the bottle were to get extremely hot, the mixture would have come up through the top of the straw.

For more cool weather experiments, visit <http://www.weatherwizkids.com/weather-experiments.htm>

