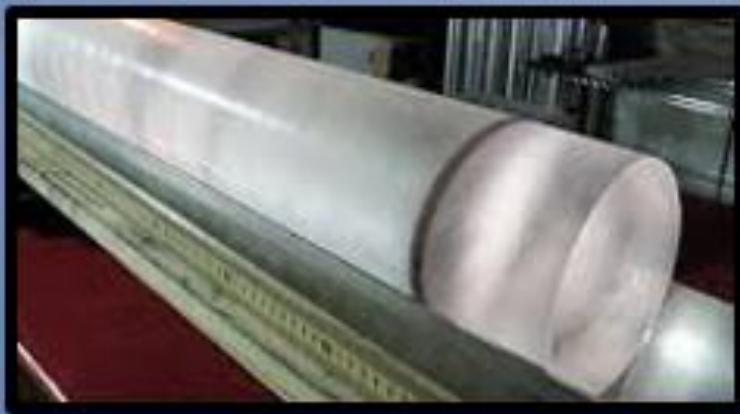


Ice Cores and Earth's History



Name: _____ Period: _____

Ice Cores

Videos:

1. <http://www.pbslearningmedia.org/resource/nvei.sci.earth.climate/ice-core-record-of-climate/>
2. https://www.youtube.com/watch?v=oHzADI-XID8&index=4&list=PLS6BmT-QyNlyx_PlcREmhBnx4QSmJxiP1

Directions: Complete these questions are you watch the 2 short videos on ice cores.

1. What is an ice core?

2. Name 3 pieces of evidence that can be taken from an ice core that tell us information about Earth's history.

3. a. What is happening with the amount of carbon dioxide in our atmosphere right now that has never happened in the past?

b. What might be causing this and why are scientists worried?

4. What is the relationship between greenhouse gases in the atmosphere and global temperatures and sea level?
In other words: What happens to the levels of our seas as greenhouse gases (carbon dioxide) increase? What is causing this?

Name: _____ Period: _____

Ice Cores

Videos:

1. <http://www.pbslearningmedia.org/resource/mve1.sci.earth.climate/ice-core-record-of-climate/>
2. https://www.youtube.com/watch?v=oHzAD1-XID8&index=4&list=PLS68mT-QvNlyx_PLcREmhBnx4QSmixiP1

Directions: Complete these questions *after* you watch the 2 short videos on ice cores.

1. What is an ice core?

A long cylinder of glacial ice recovered by drilling in glaciers in Greenland and Antarctica. They can provide evidence about Earth's younger climate.

2. Name 3 pieces of evidence that can be taken from an ice core that tell us information about Earth's history.

Trapped ancient air bubbles

Traces of volcanic ash and dust

Layers of ice and thickness can tell us past snowfall.

3. a. What is happening with the amount of carbon dioxide in our atmosphere right now that has never happened in the past?

The amount of CO₂ in our atmosphere is currently higher than it has ever been.

- b. What might be causing this and why are scientists worried?

Burning fossil fuels puts extra greenhouse gases in our atmosphere which may cause global warming.

4. What is the relationship between greenhouse gases in the atmosphere and global temperatures and sea level?

In other words: What happens to the levels of our seas as greenhouse gases (carbon dioxide) increase? What is causing this?

When greenhouse gases increase, the sea level rises because the glaciers are melting. The Earth getting warmer causes this.