

What's REALLY Warming the Earth?

PBS | It's Okay To Be Smart

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Discuss before you watch:

What do you know about global warming?

What do you think is the reference to know that the earth is warming up?

If you think this is a real problem, do you think there is a solution to global warming?

Now listen and watch the video. Mark **True** or **False**.

1- 2016 was the hottest year since 1880.

True **False**

2- Climate is a complex system, influenced by the earth's orbit, gases, volcanoes among others.

True **False**

3- More precise thermometers and regulated scales that measured temperatures were created in 1700.

True **False**

4- The cause of global warming could be human activity but also many other things

True **False**

5- The whereabouts of the earth on its orbit around the sun is not precise.

True **False**

6- Changes in the sun's temperature don't seem to have an effect on the Earth's temperature.

True **False**

7- Humans release about a hundred times more CO₂ than volcanoes.

True **False**

8- Temperatures show precise, absolute temperatures.

True **False**

9- The last month Earth's temperature was below the 20th century average was December.

True **False**

10- Climate records are not widely known by people.

True **False**

Listen again and find words or expressions that mean the following:

1- (adj) Correct in all details; exact (especially information, measurements, or predictions)

2- (adj) Brought into conformity with a standard, especially in order to assure consistency and regularity.

3- (phrase) To make a calculation or come to a conclusion based on the relevant facts and figures, typically with the implication that the result is or should be obvious

4- (adj) Tending to move unsteadily from side to side..

5- (vb) To have increased very steeply or rapidly.

6- To give a completely different version of something or provide a very different perspective.

7- To think about a problem or issue very carefully in order to find out what is wrong or to find a better way of dealing with it.

Complete the phrases:

1:52 - "Our elliptical path around the sun spins like a _____."

1:54 - "Earth's _____ draws a circle every 21 thousand years and wobbles _____ every 41 thousand.

2:10 - The sun provides almost all of Earth's heat, and it also changes in cycles, _____ and _____ a lightbulb.

3:31 - _____ the cooling from trees and clouds and pollution, and it _____ more than a century of data.

4:16 - Many of you haven't seen _____ temperatures in your lifetime.

4:36 - In 1995, biologist Daniel Pauly _____ the idea of "shifting baselines".

Speak your mind! What do you think about the following facts?:

"July 2016 was the 379th consecutive month, and the 40th July in a row, of above average temperatures."

"We evaluate change very differently depending on what we're comparing to."

"Scientists understand that Earth's climate is a complex puzzle, whose pieces affect one another in many ways. When they put those pieces together, to recreate that history to find a cause, the picture is clear."