


Is Climate Change Happening?

 learn.kids4all.eu/en/tg1/know-what/climate-change-happening

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You've probably heard about climate change hundreds of times, right? Well, this time the question is a little different than usual: Is climate change really happening? And if yes — how do we know that? What are the key factors connected to it? And how does the ice in Antarctica help us understand the whole issue? Let's find out!

Warm up

Try to think about this:

How can ice give us information about climate change?

Don't worry about being right or wrong — just share any idea that comes to your mind!



Learn

Time for some knowledge!

Take a look and try to put the parts of the puzzle together!

[here](#)

Dive in 1

Well done!

Now use the [Climate Trends learning tool](#)

Find a time period within the past **800,000 years** when the Earth transitioned from an **ice age** to an **interglacial period**.

1. Click on “**Calculate slope**”

2. Choose “**temperature**”

3. Use the slope tool to find the **rate of temperature change**

→ Select two points: one at the **start**, one at the **end** of the transition

Now reflect with your buddy:

Why might the climate change happening today be different from the temperature changes that happened in the past?



Dive in 2 ★ ★

Until about **250 years ago**, the highest recorded rate of temperature increase was about **0.003 °C per year**.

In the **past 10 years**, the rate has been around **0.017 °C per year**.

• For each of these two rates — historical and current — how many years would it take for the temperature to rise by 1 °C?

Now reflect with your buddy:

What does this tell us about the way **climate change** is happening today compared to the past?



Create ★ ★

What now?

How should we respond to the challenge of human-made (anthropogenic) climate change?

Write an **article** together with your **buddy**!

In your article, give **at least two ideas** for each of these three groups:

- **Governments**
- **Communities**
- **Individuals**

Use some of the **information from this unit** to support your arguments.

You can also add **pictures or videos** — just make sure they're free to use (check the **copyright**).

When you're done, **upload your article to the platform!**

If you want your content to be in the KIDS4ALLL gallery, please ask your educator to upload it in the [work.it](#) area.



Reflect ★

A simple change you can make:
Buy **locally grown food**.

Other actions:

Buy food with **less packaging** and **reduce** how much **animal products** and **highly processed food** you eat — these foods need the most processing and cause the most **greenhouse gas emissions**.

Is that something easy for you, considering where you live?

Talk about your **thoughts and feelings** with your **buddy**, share your **ideas for the future** — and then **create your postcard!**

Download the free KIDS4ALLL app and your wish comes true!





Ask your educator to [login](#) and share your postcard with the KIDS4ALLL community.

Move to another unit
