



## WebQuest

Introductory Level—  
Make Earth Cool Again



WebQuest Title:

Make Earth Cool Again

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Introductory Level

## INTRODUCTION

The Sun is the star at the centre of our solar system. Sunlight warms the Earth and our atmosphere.

In the atmosphere, we have three gases we call "greenhouse gases" (Carbon Dioxide (CO<sub>2</sub>), Methane (CH<sub>4</sub>), Nitrous Oxide (N<sub>2</sub>O)) that we cannot see but they trap the heat of the sun into the atmosphere. The gases allow sunlight to pass in the atmosphere and at the same time they prevent that heat from escaping from the Earth. Without the sun and the three gases working together, life on Earth would not be possible.

We use the term "**Global Warming**" to describe the increase in the average temperature on Earth. Scientists are concerned that human activities are increasing greenhouse gases in the atmosphere. For instance, when we burn fossil fuels such as coal, oil and natural gas, a lot of carbon dioxide is released into the atmosphere which leads to trapping too much heat on Earth. As a result, 2019 was the hottest year on record!



Source: <https://www.freepik.com/vectors/nature> Nature vector created by brgfx - [www.freepik.com](http://www.freepik.com)

**Changing our habits may be the only solution to fight global warming!**

## TASKS

Your school is involved in an environmental project, and you have been assigned the role of "**Global Warming Experts**" to raise awareness about global warming.

Your aim is to inform the school community about what global warming is, what causes global warming, how it affects the planet and finally, how people can change this situation.

Follow the steps of this WebQuest with your group (group of 2-3 students). Before proceeding with each stage, you should pause, discuss the information you gather and write down 1-2 main points. Your aim is to create an informative leaflet to share in your school to inform your classmates and teachers about global warming and what they can do about it.

Let's get started!



## PROCESS

### Step 1: Discovering evidence

First, think about what information, images, and facts you would like to include in your leaflet. Make sure you write **what global warming is and how much it is harming our planet.**

To find out more about **global warming**, click on the links below:

What is global warming? <https://www.youtube.com/watch?v=dAnwoWPzbe8>

Causes of climate change: [https://ec.europa.eu/clima/change/causes\\_el](https://ec.europa.eu/clima/change/causes_el)

Beforehand, discuss with your group and write down 1-2 of the most important things you read and want to include in your leaflet!

To find information on the **effects of global warming**, click on the following links:

Will Cyprus become the Sahara Desert?

<http://businessnews.tothemaonline.com/koinwnia/2019/06/17/%C2%ABi-kypros-kindyneyei-na-ginei-saxara%C2%BB/>

Forests are dying: <https://ecozen.gr/2021/01/simasia-ton-dason-stin-aporrofigi-co2-pos-epireazei/>

How climate change affects sea/marine life: [Global warming and the seas](#)

Beforehand, discuss with your group and write down 1-2 of the most important things you read and want to include in your leaflet!

### Step 2: Take action to fight climate change

Greta Thunberg is a young teenager from Sweden, who is calling world leaders to take immediate action against climate change. In 2019, Greta affected millions of students around the world, who protested every week about the climate crisis. The movement was called "Fridays for Future").

To learn more about Greta's actions, follow the links below:

Greta's message: <https://www.kathimerini.gr/world/1058188/gkreta-toynmpergk-thelo-na-morfotho-kai-na-eimai-aplos-mia-kanoniki-efivi/>

The "Fridays for Future" movement in Cyprus: <https://www.reporter.com.cy/local-news/article/472086/>

Beforehand, discuss with your group and write down 1-2 of the most important things you read and want to include in your leaflet!

You want to inform people in your school about how important it is to address climate change. In your leaflet it is important to write what they can do to raise awareness of the climate crisis.

To find more information on **how to act on the climate change**, follow the links below:



How to reduce my carbon footprint: [https://www.getactive.gr/product\\_info.php?products\\_id=643](https://www.getactive.gr/product_info.php?products_id=643)

Stop climate change:

[https://www.oikologos.gr/index.php?option=com\\_content&view=article&id=317:0373&catid=34:climate&Itemid=202](https://www.oikologos.gr/index.php?option=com_content&view=article&id=317:0373&catid=34:climate&Itemid=202)

Beforehand, discuss with your group and write down 1-2 of the most important things you read and want to include in your leaflet!

### Step 3: Time to design your leaflet

Now that you have become "Global Warming Experts" and learned how damaging the effects of global warming has on the planet and the environment, it's time to design your leaflet. Your leaflet should be colourful and include the information below:

1. What is global warming?
2. How it affects the environment, people, etc.
3. What people can do to cope with global warming.

How to create an informative leaflet on paper:

- You will need an A4 sheet of paper.
- Lay it horizontally.
- Draw a line down the middle of the paper. You should have two equal parts.
- Fold the left side to the right side.
- Now you can start designing your leaflet.

## EVALUATION

At the end of the WebQuest, students will complete the following activity:

1. What is global warming?

.....  
.....

2. How the Earth has changed due to global warming (3 examples).

- .....
- .....
- .....

3. How can we help to stop global warming?

.....  
.....  
.....





## CONCLUSION

Congratulations Global Warming Experts! You've done some great research on global warming. You have created great informative leaflets and you will help people in your school consider how their actions are affecting the global warming and harming our planet.

As Global Warming Experts, it's time to organise an action outside of school, to inform your community too! Discuss with your group how you could do this.

Remember that everyone is responsible for their own actions, but more importantly, every small step we take can have big results in the end!



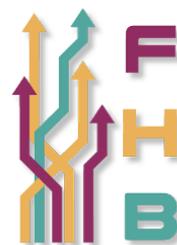


# GRETA

**Challenge-based Learning in Primary Schools for Climate Change Awareness**



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