



## WebQuest

Introductory level -

We Are What We Breathe





TITLE OF THE WEBQUEST:

We Are What We Breathe

LEVEL OF THE WEBQUEST

Introductory Level

### INTRODUCTION

## How can acting against Air Pollution help our planet

Air pollution is when harmful materials become present in the air that we breathe. This can be caused by carbon emissions which arise from the burning of fossil fuels, car emissions, and much more! Air pollution is dangerous for planet earth, the environment and even our health!

You have probably heard of the ozone layer, and how it needs to be protected. The ozone layer is like a protective blanket that protects planet Earth from the sun's extra hot rays. However, the ozone layer has become damaged from air pollution.

To prevent this, we can all play a part in making choices that can help the environment and preventing air pollution means helping the planet to be healthier. There is still time to reverse the effects of air pollution, so let's see where and how we can make a difference!



### TASKS

The harmful effects of air pollution can have a detrimental affect on our health it can harm our forests, wildlife, agriculture, it can block sunlight because of the layer of smog it produces, it can be an element in acid rain and overall have a lasting negative effect on the environment and even ecosystems around the globe. It is caused primarily by carbon emissions from human and natural activity. This comes from carbon emissions created by business industries, factories, transport vehicles, forest fires, volcanic eruptions and much more!

Around the world, 92% of people live in areas that have safe air levels. The quality of air can vary depending on where you live, However, this varies from cities and communities. You know that raising awareness about air pollution can inspire others to be more mindful about how we look after the planet and care for the environment.

In order to make wiser choices that lessen the impact of air pollution, you will need to do some research to gain information about air pollution to help you and complete the worksheet. Now





you will be able to see what you can do to play a positive role in preventing climate change. In this WebQuest, you will work in groups of 2-3, to see what you can learn to play your part in protecting planet Earth!

When you have completed your research and the worksheet, make sure to show it to your classmates and your teacher! This exciting information can encourage and help those around us to look after the planet too! Let's get started!

## PROCESS

### Step 1:

Before you think about what you can do and inspire others to do to prevent air pollution, you will first need to find out more information!

To find out about **air pollution**, click on the following links:

- **What causes air pollution?** <https://climatekids.nasa.gov/air-pollution>
- **The air pollution song [video]:** <https://www.youtube.com/watch?v=2Krrrc5N8zw>
- **How air pollution can affect us at home [video]:**  
<https://www.youtube.com/watch?v=Nv1dnYAu2Ac>

To discover more about **how air pollution affects different cities and communities**, click on the following links:

- **Facts about air pollution for kids:** <https://www.youtube.com/watch?v=tH4hPPri9uc>
- **Environment and air pollution:**  
[https://www.ducksters.com/science/environment/air\\_pollution.php](https://www.ducksters.com/science/environment/air_pollution.php)
- **European air pollution map:**  
[https://www.esa.int/kids/en/learn/Earth/Protecting\\_nature/Global\\_air\\_pollution\\_map](https://www.esa.int/kids/en/learn/Earth/Protecting_nature/Global_air_pollution_map)

Were you surprised by the information you found? When we think of pollution, sometimes we only think about what we can see – plastic pollution, water pollution, land pollution, etc. But it's important to think about the air that we breathe and how it needs to be looked after too!

### Step 2:

Next, it's time to think about how air pollution can affect us, our wildlife and our plant life. This is a good motivator to consider when we are making eco-friendly choices to lower air pollution.

For more information on **what we can do to prevent air pollution** click on the following links:

- **Air pollution action:** <https://lasp.colorado.edu/home/wp-content/uploads/2011/08/Doing-Your-Bit.pdf>
- **Solutions for air pollution [video]:** <https://www.youtube.com/watch?v=WnToXmXj2ZU>





Coming up with solutions that we can start doing in our every day lives, can lessen the impact of air pollution, and help to repair the planet. This means that we can all play an active role in reversing the effects of global warming and looking out for the environment!

### Step 3:



In your final step, it's time to put your knowledge and action into good use! After all of your hard work, it's time to work together with your group and think about what measures you could take to combat climate change by choosing eco-alternatives that prevent air pollution. Taking small steps with your friends, in school, or even at home can look to make a difference and save the planet one step at a time!

In the worksheet, fill out three air pollutants (indoor or outdoor!), and find a corresponding solution to each.

For example –

**Pollutant:** carbon emissions released from a car

**Solution:** Using public transport more often

 Air Pollution Solutions 	
<b>Pollutant 1:</b>	
<b>Solution:</b>	
<b>Pollutant 2:</b>	
<b>Solution:</b>	
<b>Pollutant 3:</b>	





## Solution:

After you have completed the worksheet, present it to your class and try to implement these solutions into your life where possible. You could ask your teacher to find a solution for your classroom or even encourage your family to make better decisions at home! Well done!

## EVALUATION

As a self-assessment for this WebQuest, write a short self-reflection of 100 words to explain how you enjoyed this activity. You can use the following questions to help you reflect:

- Why is it necessary to prevent pollution?
- What was the most interesting thing you learned from this activity?
- Why do you think it is important to look after our planet?
- What do you think is the most important thing you learned today that you could tell your friend or family member?

## CONCLUSION

Congratulations! You and your team worked together to understand how air pollution affects our planet and all of its living things! You really put your brains to the test to research and come up with ways that look to lower the impact of air pollution. Lowering pollution rates have so many benefits that look out for our environment, the people around us and even plants and animals too!

By doing small things in our lives that protect our planet, we can all work together to prevent climate change!





“Take care of the Earth, and she will take care of you.”

- Anonymous





# GRETA

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



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