

# The Globe scientific cycle!

- + Doing proper scientific research to prepare for higher education
- + Getting to know your own environment and comparing that environment to other locations in Europe



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## Step 1 Orientation

What do you already know about the topic?

Describe what particulate matter is and how it effects nature and health.

Take notes during the lectures and read the material.

Combine all this in a theoretical framework.

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## Step 2 The Research question

We have made research questions in advance.

As a group you can choose one of them!

- + Route
- + A9
- + Wijk aan Zee

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## Step 3 Develop a research plan

How are you going to do the research?  
Write this down in your report.

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## Step 4 Collect the data

Take care on the road.

Put the device which measures particulate matter on one of your bikes and go to your measurement points, of bike your route.

The device is only going to measure some 100 metres away from your starting point.

If it lights green or bleu; it's working.

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## Step 5 Analyze the data

Back at school: analyze the data on the website: [knowyourair.net](https://www.knowyourair.net).

You can also use other data on that website. Or on [samenmeter.nl](https://www.samenmeter.nl).

At also use [windy.com](https://www.windy.com) to see how the direction of the wind was.

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## Step 6 Draw conclusions

Answer your research question.

Reflect on the research process.

Write your findings in your research report.

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## Step 7 Present your conclusions



1. Use PowerPoint
2. Make interesting slides with some graphics, pictures or maps
3. Make slides with your research and your conclusions
4. Present no more than 5 minutes
5. Give room for questions



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**Have fun doing research!**

**Questions?**