

*Lithuania, Anykščiai Antanas Baranauskas basic school*

**Subjects:** Chemistry, biology, geography

**Grade:** 8

**Lesson topic:** Atmospheric pollution

**Learning objectives:**

1. Using the textbook material, ICT and their own knowledge students will be able to describe 3-5 sources of air pollution and name 3-5 major pollutants.

2. Using ICT in maps, students will be able to say 3 European and 3 Asian countries, where the air pollution is the highest.

3. Applying the acquired knowledge students will give the examples of the sources of air pollution in the living environment and give 2-3 proposals to reduce air pollution.

**Methods:** brain storm, discussion, group work (pair work), practice.

**Measures:** Computers, maps, MKP addresses:

[http://gamta7-8.mkp.emokykla.lt/lt/mo/demonstracijos/oro\\_tarsa/scenario.84,position.3](http://gamta7-8.mkp.emokykla.lt/lt/mo/demonstracijos/oro_tarsa/scenario.84,position.3) (smog)

[http://gamta7-8.mkp.emokykla.lt/lt/mo/demonstracijos/kas\\_yra\\_siltnamio\\_efektas/](http://gamta7-8.mkp.emokykla.lt/lt/mo/demonstracijos/kas_yra_siltnamio_efektas/)

[http://geografija6-](http://geografija6-8.mkp.emokykla.lt/lt/mo/demonstracijos/kodel_ivairiose_pasaulio_vietose_klimatas_yra_skirtin_gas/)

[8.mkp.emokykla.lt/lt/mo/demonstracijos/kodel\\_ivairiose\\_pasaulio\\_vietose\\_klimatas\\_yra\\_skirtin\\_gas/](http://geografija6-8.mkp.emokykla.lt/lt/mo/demonstracijos/kodel_ivairiose_pasaulio_vietose_klimatas_yra_skirtin_gas/) (film about climate change)

**The activities of the lesson:**

Teachers activities	Students activities
<p>The topic and learning objectives are announced at the beginning of the lesson.</p> <p>The brainstorming method finds out what students know about air pollution.</p> <p>Students are divided into pairs for practical activities.</p> <p>After completing the first three tasks, show students a demonstration tutorial on air pollution.</p> <p>After completing the fourth task, students are shown a video about climate change.</p> <p>Reflection: Students create a four-line poem about air pollution.</p>	<p>Students share their knowledge of atmospheric pollution.</p> <p>Using ICT and MKP, the e-school searches for information and performs the tasks listed on the sheets, which record:</p> <ol style="list-style-type: none"><li>1. 3-5 sources of air pollution;</li><li>2. 3-5 major pollutants.</li><li>3. Using ICT in maps say 3 European and 3 Asian countries, where the air pollution is the highest.</li><li>4. Using information sources, gives 4 examples of how air pollution harms nature and humans.</li></ol>

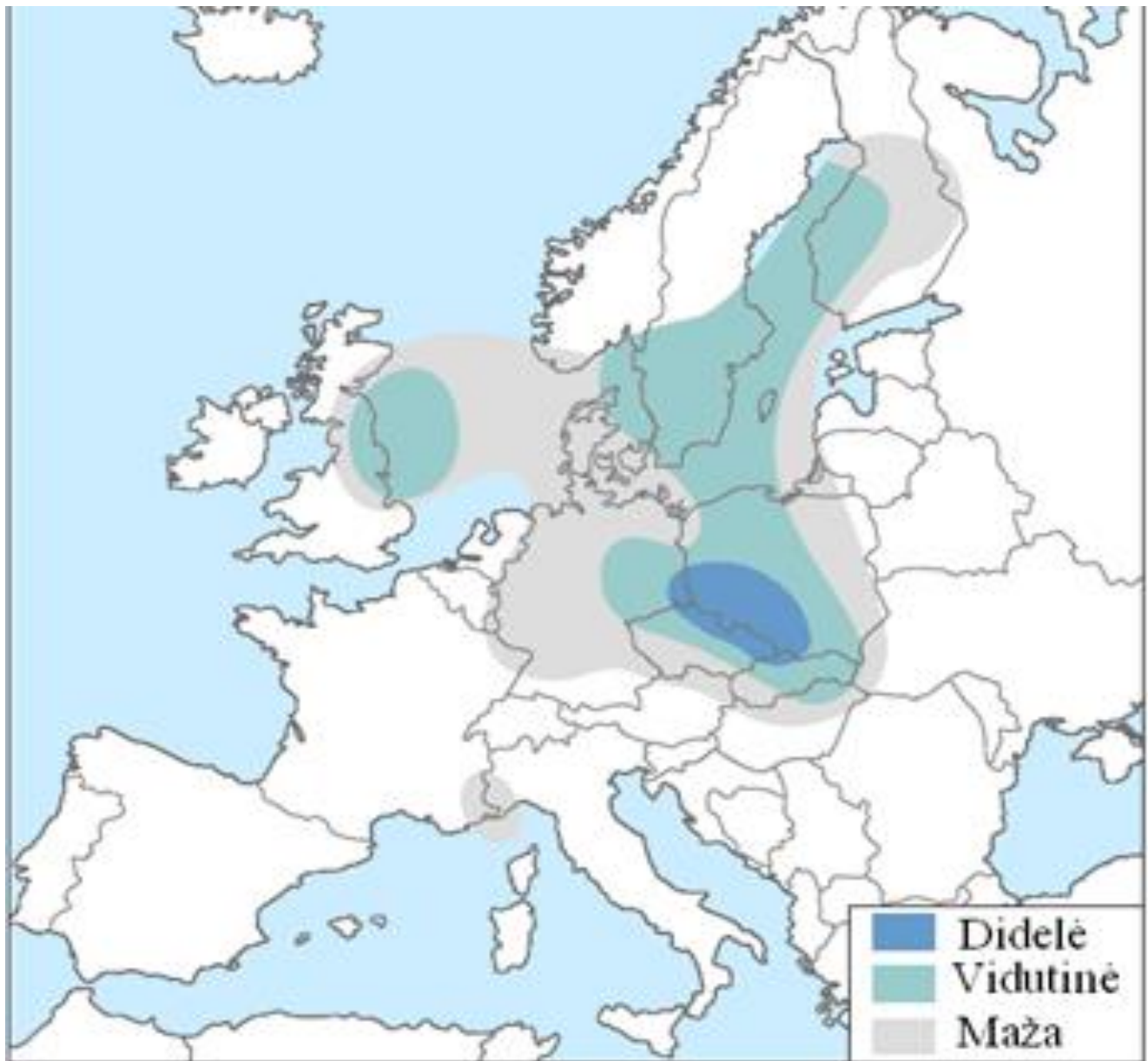
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**Tasks sheet:**

Sources of air pollution	Major pollutants	Countries where the air pollution is the highest	How air pollution harms nature and humans
1.	1.	Europe:	1.
2.	2.	1.	2.
3.	3.	2.	3.
4.	4.	3	4.
5.	5.	Asia:	
		1.	
		2.	
		3	

**A four-line poem:**

European air pollution:



# PARIS CLIMATE AGREEMENT

Historical document that legally binds the whole World to participate in climate change fight.

**196**  
countries

## Adopted the Agreement

officially recognizing human influence on climate

**Will come into force by 2020**

If signed by **55 countries** covering **55%** of global emissions

## Finance

Rich countries will provide minimum of **\$100 billion** to developing ones for climate change adaptation by 2020

## Goal

Holding the increase in the global average temperature well below

**2°C**

Pursue efforts to limit the temperature increase to

**1.5°C**

## Role of forests

The Agreement binds saving and increasing forest area in order to capture GHGs from the atmosphere

## Climate neutrality 2050

The balance between emissions and sinks should be reached in the second half of XXI century

## Clean technologies

The Agreement urges to speed up clean tech development and international technology transfer

**5**  
years

## Ambitious

Every 5 years countries shall revise their emissions reduction targets and measures

## Climate damage

For the first time ever the Agreement defines climate loss and damage terms **but** liability and compensation are not mentioned