



Subject: Does the climate change?

General objective: familiarization with the factors affecting global warming, the effects they cause and how to solve the problem.

Specific objectives:

- knows what are the factors affecting climate change
- lists the main causes and effects of climate change
- can determine the relationship between human activity and climate change
- knows how to prevent climate change factors

Methods of work:

- seeking: talk (questions and answers), discussion
- practical – students' exercises, work in groups, work with text

Forms of work:

- collective (with the whole class)
- group work.

Teaching aids:

- ppt presentation „Climate changes”, computer, projector,
- press releases, news from the Internet.

Lesson's scenario:

TEACHER'S ACTIVITIES	STUDENTS' ACTIVITIES
<i>Introduction</i>	
- Presentation of the topic of the lesson and its purpose.	
- Introduction to the topic of the lesson; asking questions: <ul style="list-style-type: none"> • Why is environmental protection important? • Does the climate change? • What is climate change? 	- Answering, possible answers: environmental pollution causes climate change, airborne contaminants can cause cancer - Yes - possible answers: - global warming, - melting glaciers can cause floods
<i>Lesson's development</i>	
- Presentation that contains information about: <ul style="list-style-type: none"> • climate change over the centuries • mechanism of creating the Earth's energy balance • correlation between CO₂ air content and temperature 	- Taking notes while watching the presentation.
- How to prevent climate change factors?	- possible answers: reduce CO ₂ emissions
- work in pairs: Use the information on the Internet to prepare arguments for climate change and how to prevent it	- using the available information they prepare a discussion
- Asks for a summary of the work result.	- discussion: how to prevent CO ₂ emission
<i>Summary</i>	
- asks the questions: <ul style="list-style-type: none"> • What have you learned during today's lesson? • What factors influence climate change? • Are you able to reduce CO₂ emissions with your behavior? - Encourages students to consider the arguments for and against the global warming.	- answering the questions
- Assesses students' work during the lesson. - Homework - experiment "solar constant measurement".	

- *Prepare, for the next lesson, arguments for or against the global warming.*
- *Try to find different aspects of the problem.*
- *Which changes are the most dangerous?*
- *Are there any potential benefits?*
- *Discuss also the possible cost of mitigating climate change, who should pay for it?*
- *Conduct the experiment "solar constant measurement" - draw the conclusions.*