

Lesson Plan

Course:	Physics
Teacher:	Slavica Trajkovska
Theme:	Alternative sources of energy

Session number	
Date	
Duration	60 minutes

OBJECTIVES

General	<ul style="list-style-type: none"> -to apply an active learning method and a research method -to develop awareness of environmental protection
Specific	<ul style="list-style-type: none"> -to recognize and discuss the various types of energy: solar energy, wind energy, energy of small flows, energy of biofuels. -to become acquainted with the possibilities of using renewable energy sources - to characterize some alternative sources of energy-solar cells, wind power plants, etc - to enable practical application of knowledge on energy saving and where to use renewable energy sources

DESCRIPTION

Phases	Description/contents	Methods/techniques	Didactic resources	Duration
Introduction	The teacher emphasizes the purpose of the research(the need to discover and use alternative sources of energy)	Demonstrative Active Interrogative	Multimedia Projector. Computer	8 m
				12 m
Development	<p>The teacher explains in detail the parts and stages of the research process</p> <p>In collaboration with students, they compile criteria for evaluation/assessment of the project task</p> <p>The students:</p> <ul style="list-style-type: none"> - more precisely define the problem and develop research questions (in collaboration with the teacher) - Write a research plan - Research and collect data (textbook, other literature, internet) - Sort, analyze the data (in consultation with the teacher) - Synthesize and evaluate data 	Expositive Active Interrogative	Multimedia Projector. Computer	20 m
Conclusion	<p>The students create final product (poster/computer presentation/essay)</p> <ul style="list-style-type: none"> - Present the findings (presentation) 	Active Interrogative	Reflection	20 m

Type	Technique	Instruments
Quantitative	Interactive	Observation and debate with the students