

## LESSON REVIEW 1

### Title

Review title	Eco-friendly island
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### General information

Author/authors	Violetta Liepina, Irina Vasiljeva
Concept	Human impact on the environment is a topical issue. Climate change caused by human activities has become a pressing problem. Geography lessons include standard education about the environment and interactive teaching methods using modern information technology. The lessons are set up to test and develop students' skills and knowledge of the effects of climate change and show the choices each person can make to reduce the negative impact on the environment. This is done by reducing greenhouse gas emissions and better understanding of the use of natural resources. A concept of a green island is used to understand the factors that affect the environment.
Study purpose	Improve and develop understanding about climate change, its impact to world and Latvia. Ways to limit greenhouse gas emissions and develop awareness of environmental sustainability.
Education sector	<ol style="list-style-type: none"><li>1. Actualizing</li><li>2. Understanding</li><li>3. Applying the knowledge</li><li>4. Conclusion</li></ol>
Theory	Cognitive. Environmentally sustainable behaviour, gas emissions, greenhouse effect.

### Content

Language	Latvian language
Grade, age	8 <sup>th</sup> grade, 13 – 14 years old
Difficulty	Not taken into account
Work field	Geography: greenhouse effect. Education of environment: the concept of eco-friendly action
Key words	Acting eco-friendly, gas emissions, households, greenhouse effect
Conditions	Concept of environmental education: an environmentally sustainable behaviour. This concept will help students to understand the study of environment.
Degree of complexity	Average
Learning environment	Classroom
Duration	40 minutes
Way of learning	Dialogue, case study, narration, visualizing, game
Evaluation	Self-evaluation

### Way of teaching Nr.1

Title	Actualization
Description	Pupils need to debate on the question "From what are we protecting the nature and why?". The teacher explains how our everyday life is affecting the nature and why it is affecting the climate, how the economic activity, what we produce and how, sources of energy to heat our homes and power our electric appliances and run our transports.
Study purpose	Enable pupils to work with enticing challenges
Equipment	Computer, interactive whiteboard with projector
Used sources	Computer presentation "Eco-friendly friendly island"
Duration	3 minutes

### Way of teaching Nr.2

Title	Understanding
Description	The teacher defines the concept of "green behaviour " and discuss with pupils the scheme which may lead people environmentally harmful activities ( Slide 2 of the computer presentation)
Purpose	Awareness of environmentally sustainable behaviour
Communication and roles	Common training: medium sized class
Equipment	Computer, projector with interactive whiteboard or projector
Used sources	Computer presentation "Eco-friendly friendly island"
Duration	2 minutes

### Way of teaching Nr.3

Title	Applying the knowledge
Description	<p>The teacher explains the rules of the game for the pupils (computer presentations Slide 3). Teacher hands out work sheet (Appendix 1) and invites students in pairs to the computer to the first task - after describing the place objects in the island territory (Appendix 2). Pupils review the first task (computer presentation slide 4).</p> <p>The teacher invites students to individually perform second task - to answer the test questions (Appendix 1).</p> <p>Pupils review the second task (computer presentations Slide 5).</p> <p>The teacher invites students to split into groups (3-4 people) and hand out each group a card game set (Appendix 3). Each group forms one household, consisting of three or four members of the family. Pupils review the third task - choose from two options an act which they consider to reduce emissions (computer presentations Slide 6).</p> <p>The fourth task is to calculate a score for the household.</p>
Purpose	<ul style="list-style-type: none"> <li>- Is able to place described objects on the island territory.</li> <li>- Understand the causes of the greenhouse effect and its consequences, to correctly sort waste.</li> <li>- Understand how to reduce greenhouse gas emissions.</li> <li>- Participation in pairs and group work.</li> </ul>
Communication and roles	Work in pairs, individual works, group works
Equipment	Pupils work with computers in pairs.

	Software program ActivInspire
Used sources	Computer presentation “Eco-friendly friendly island”  Study materials: worksheet (Appendix 1), computer program ActivInspire (Appendix 2), the game card set (Appendix 3)
Duration	31 minute

#### **Way of teaching Nr.4**

Title	Conclusion
Description	Analysing game results. Teacher with pupils analyse results of their group work.
Purpose	Awareness of environmentally sustainable behaviour
Communication and roles	Common training
Equipment	Computer presentation “Eco-friendly friendly island”
Used sources	Study material: worksheet (Appendix 1)
Duration	4 minutes