



TITLE: HUMAN IMPACT ON THE ENVIRONMENT

MAIN SUBJECT: Ecology

GRADE LEVEL: 6

DURATION: 6 hours

LEARNING OBJECTIVES: Global warming, climate changes, and material recycling are topics that have become our daily companion in recent times. Therefore, we decided to pay attention to these themes on Earth day during our outdoor activities on “Draveljčkov dan”. The purpose of these themes was for students to briefly learn about the essential consequences that we are already and will continue to face because of climate changes and the growing population and, consequently, the increasing amount of rubbish. At the same time, it also reminds students how they contribute to it themselves or how they can reduce their environmental impact. Thus, the final objective or desired result was also their own product, made of waste material, which can serve them usefully.

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HUMAN IMPACT ON THE ENVIRONMENT

WHAT?	HOW?	WHY?	LEARNING OBJECTIVES
IN CLASSROOM			
<p>GLOBAL WARMING AND RECYCLING OF WASTE MATERIAL</p>	<p>First step: We watch videos on ecology topic</p> <p>www.youtube.com/watch?v=BKsmw2-dhE (6. 4. 2022)</p> <p>www.youtube.com/watch?v=pFZ5fRNswll (6. 4. 2022)</p> <p>www.youtube.com/watch?v=VWOHVc7G-UI (6. 4. 2022)</p> <p>www.youtube.com/watch?v=XmUX8Rw2uDM (6. 4. 2022)</p> <p>www.youtube.com/watch?v=UL-bltg8ICc (6. 4. 2022)</p> <p>Second step: Students answer questions in pairs</p> <ul style="list-style-type: none"> - What is global warming? - How does consumerism affect the environment? - How do you help minimise global warming? - What does a clean environment mean to you? - What would you do to protect and maintain the environment? - How would you improve the school playground? 	<p>We watch various videos online about global warming and recycling. We use videos as motivation. This establishes prior knowledge, stimulates thinking and prepares them for the acquisition of a new learning topic.</p> <p>By asking questions, we want to determine prior knowledge, clarify the problem, interpret and explain what we want.</p> <p>We encourage thinking, finding solutions and a different approach to the problem.</p>	<p>Students:</p> <ul style="list-style-type: none"> - explain the harmful effects and consequences of overexploitation of natural resources (water, raw materials and fossil fuels) and large amounts of waste generated, - learn about the causes of increasing emissions of gases (carbon dioxide, methane, nitrogen oxides) and the associated over-warming of the atmosphere (increased greenhouse effect), which is reflected in climate change and terrestrial and aquatic ecosystems, - propose measures and actions for the economical use of water, energy and raw materials and the reduction of waste, - propose measures and actions that would contribute to reducing the consequences of human interventions in the environment

	<p>Third step: Look for the ideas on the web</p> <ul style="list-style-type: none"> - What waste material will we reuse and recycle? - How to reuse and recycle waste material? - What to manufacture? 		<ul style="list-style-type: none"> - learn how they can contribute to the protection of the environment through appropriate action, while being aware of the significant impact of each individual on the environment.
FIELD WORK			
<p>MANUFACTURE OF BENCHES WITH FLOWER TRAYS FROM WASTE / DISPOSED PALLETS</p>	<p>Students assemble waste pallets and thus make benches with the rear part turned into a flower tray.</p> <p>Pupils work in smaller groups. First, they prepare all the necessary materials:</p> <ul style="list-style-type: none"> - 3 wooden pallets, - wood paints, - grinder, - abrasive paper, - brushes, - blanket or thicker foil, - wood stapler, - screws and nails, - soil for flowers, - seedlings of various flowers. <p>Students then work together to complete a work plan and a list of all the tasks, and what tools and material they will need at each stage.</p> <p>One of the groups of students first sands all three pallets so that they are perfectly smooth and free of chips.</p> <p>The palette, when it will serve as a bench support and at the same time as a flowerpot, is</p>	<p>We monitor and direct the process and give feedback. We want children to strengthen their metacognitive, manual, and artistic skills. Procedures and solutions for how they will perform a task are found and done by the students themselves; the teacher here is really just a guide. Students learn by observing, planning and monitoring their own or group progress. When there are problems or delays in the manufacturing process, they have to find the mistake and the way to solve the problem most effectively.</p>	<p>Students:</p> <ul style="list-style-type: none"> - learn to plan their work, - anticipate the consequences or results of their planning and work, - understand why good planning and preparation for work is key to success, - actively participate in each stage of manufacture, - learn about the usefulness of discarded things, - they realize that with their own work and activity they can turn a discarded thing into a new, useful object, - develop a positive attitude towards common property, - develop a sense of respect for material things, especially if their own products,

	<p>prepared accordingly (we make the bottom of the pot with two boards). This is followed by the design of the bench, that is screwing the nails and assembling pallets.</p> <p>Once the bench is assembled, the entire bench is painted and the flowerpot completed.</p> <p>Then it is necessary to choose seedlings of flowers that fall together and pour the appropriate amount of soil for flowers in the troughs.</p>		<p>- feel the joy and satisfaction of successfully completing the task.</p>
IN CLASSROOM			
EVALUATION	<p>Students think about what they have learned.</p> <p>We decided to use the questionnaire in a year's time to check the satisfaction of users of our bench made from waste pallets.</p> <p>Self-reflexion.</p> <p>By using the self-reflection they have to remember or write down a single word to describe the whole learning process. They do the same to describe their findings/results.</p>	<p>Evaluation is an important part of the learning process. With it, we need to find and stimulate internal impulses to achieve the same goal. Evaluation has a decisive influence on the professional development of students, because the awareness of quality work is the most pronounced virtue.</p> <p>They are aware of the importance of waste and recycling and the impact they have on the environment.</p> <p>Through self-reflection, we discover new challenges, discover hidden potentials and better understand our relationship and ourselves with our surroundings.</p>	<p>Students:</p> <ul style="list-style-type: none"> - consolidate knowledge about global warming, proper waste separation and recycling, - restore knowledge from the field of use of natural resources of raw materials and energy, - consolidate knowledge on waste management, <p>Teacher:</p> <ul style="list-style-type: none"> - evaluates the achievement of standards of knowledge.

RECYCLED WASTE PALLETS

