

SCHOOL: Zrínyi Miklós-Bolyai János Primary School	LESSON PLAN	Subject: Technology
Class: 4		School year: 2017/2018
Field of Science: - Natural Sciences - Social Sciences - Arts - <u>Technology</u>		Lesson number:

Main topic: Biodiversity		
The topic of the lesson: The protection of the forest, recycling leaves		
The goals of the lesson: <ul style="list-style-type: none"> • Deepening conscious environmental protection through an experiential way • Motivating with a drama game using ICT device • Getting familiar with the term of composting • Connecting the concepts of forest and recycling • Making a piece of work by a tutorial video 		
Lesson type: - a lesson of processing new knowledge - a systematizing lesson - a practical lesson		
Subject correlation: Science, Art, P.E., mother tongue, Ethics		
Developing key competences: <ul style="list-style-type: none"> • Communication in mother tongue • Natural Scientific competence • Efficient and independent learning • Social and civic competence • Initiative and venturesome competence • Aesthetic and artistic awareness and ability of expression 		
Developing transversal competences: <ul style="list-style-type: none"> • Acquiring independent learning • Social competences • Cooperative activity • Critical thinking and reflection • Digital competence 		
Teaching forms	Teaching methods	Teaching devices
- frontal - individual - group - pair (according to choice)	- explanation - discussion - demonstration - drama game - idea map - visiting a gallery - practical work	- big wrapping paper (one per each group) - felt pens (2 or 3 per each group) - texts (about the concepts of „protected species“ or „composting“): one per each group - paper and a pencil (to take notes)

		<ul style="list-style-type: none"> - magnets <p><u>For making the owl:</u></p> <ul style="list-style-type: none"> - scissors - cello tapes - paper glue or other glue - colour (blue/green and red) and white paper - small transparent plastic bags - smaller, oval leaves - black felt pens
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WORKING PROCESS

	Teacher's activities	Pupils' activities
<p>1 Organizing work: Checking the devices</p> <p>3 min.</p>	<p>(S)he makes the pupils check the necessary devices.</p>	<p>They check the devices which are on their tables.</p>

<p>2 Motivating, tuning up: Acting out the stages of the storm in the forest with the help of a short <i>drama game</i>.</p> <p>2 min.</p>	<p>(S)he describes the task and tells what is happening.</p>	<p>They carry out the task (imitate what the trees do with movements, making noise as the storm is getting more and more intense).</p>
<p>3 Designation of the purpose of the lesson</p> <p>1 min.</p>	<p>(S)he describes the goals of the lesson (the importance of the protection of the forests, recycling the fallen leaves).</p>	<p>They listen.</p>
<p>4 Systematizing the existing knowledge, introducing new terms: Making an <i>idea map</i> in groups of 3 or 4 on big wrapping paper about the importance of the forest (central idea: „Forest is important because...“) + a member of each group gets a text part about the concepts of “composting” and “protected species”)</p> <p>10 min.</p>	<p>(S)he describes the tasks, helps organize the groups of 3 or 4 and dividing the tasks within the groups.</p>	<p>They make groups of 3 or 4, divide the tasks within their groups and carry them out.</p>

<p>5 Discussing the existing and the new knowledge and connecting them:</p> <p>5 min.</p>	<p>The teacher fixes the sheets of wrapping paper on the board with magnets, controls the verbal comparison. (S)he helps connect the new terms to the forest and the purpose of the lesson.</p>	<p>They compare the idea maps. The responsible group members – completing each other – describe the two new terms aloud.</p>
<p>6 Verbal puzzle: Riddle about the owl.</p> <p>Owl is a protected species.</p> <p>1 min.</p>	<p>Describing the verbal riddle: „Lehet füles, lehet macska, Hogyha repül, nincsen hangja. Jelképe a bölcsességnek, Nagyfejű – mondja a verébnek.”</p> <p>Connecting the new concept (“protected species”) to the owl.</p>	<p>They listen and find out the solution.</p>
<p>7 Practical activity: Watching a <i>tutorial video</i> noting down the work phases, making the piece of work</p> <p>15 min.</p>	<p>(S)he describes the task (calling the attention to the compostability of the used leaves), presents the tutorial video, walks around controlling the process of making the piece of work. She starts music during the process of making the piece of work.</p>	<p>They watch the video, take notes about the work phases then make the piece of work. The making of the piece of work can happen individually, in pairs or in groups.</p>
<p>8 Examining and evaluating the pieces of work:</p> <p>With the method of <i>visiting a gallery</i>.</p> <p>6 min.</p>	<p>(S)he make the pupils put their pieces of work on a separate table. (S)he stops the music. (S)he controls the evaluating discussion.</p>	<p>They examine one another’s piece of work then - in a form of a common discussion – they evaluate what they have seen.</p>
<p>9 Evaluating the lesson:</p> <ul style="list-style-type: none"> - Did you like the lesson? - Did you learn new things? - Can this new knowledge be useful? <p>2 perc</p>	<p>(S)he controls the evaluation of the lesson with his/her questions.</p>	<p>They can freely express their opinion and remarks about the lesson.</p>

Notes:

The teacher can choose any other riddle about owl in his/her mother tongue. (S)he can also freely choose other texts about the two concepts in another language.

Homework for the pupils:

Possible homework: if a pair/group or an individual works slower, they can complete their piece of work according to the noted work phases in the afternoon at school (in case of pairs/groups) or at home (in case of an individual). The pieces of work can be evaluated in an almost-ready condition as well.

Attachments:

text parts about the following concepts:

- protected species
- composting

Sources:

- The concept of protected species: https://hu.wikipedia.org/wiki/V%C3%A9dett_faj
- The concept of composting: <https://hu.wikipedia.org/wiki/Komposzt%C3%A1l%C3%A1s>
- Tutorial video: <https://youtu.be/K3AYzWjfCpY>
- Music during making the piece of work and the exhibition: (The noises of the forest)
<https://www.youtube.com/watch?v=KEDIXpKwQqU>