

Didactic Scenario

1. Title

The water cycle in nature

2. Keywords

water, rain, clouds, sleet, snow

3. Basic Information

STEAM Subject: Science, English, IT, Art

Typical interaction time with the instructional scenario in teaching hours for in-school work:
Science (1 hour), English (1 hour), IT (1 hour), Art (1 hour)

General description of the scenario:

<u>Phases</u>	<u>Stage</u>	<u>Time</u>
Warm-up activity, introduction to the topic	preparation stage	5'
Explanation of work ahead and what is expected of them	preparation stage	5'
Presentation of the instructional-educational content	implementation stage	35'

Age group: 9-10 years

Estimated difficulty level:

Very Easy	Easy	Moderate	Challenging	Very Challenging
			X	

Teaching resources

Material: cardboard plates, paper, colored pencils, eraser, scissors

School infrastructure: Internet access, video projector or projection screen

Additional material from external sources/online tools:

<https://pixabay.com/ro/sound-effects/search/rain>

<https://www.youtube.com/watch?v=ncORPosDrjI>

<https://www.educationsoutheastwater.com.au/resources/what-is-water-fact-sheet>

https://www.proprofs.com/quiz-school/story.php?title=water-cycle_40

Differentiated Instruction for students of differing abilities and learning styles in the same class: N/A

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4. Educational Problem

The water cycle in nature is a fascinating topic for students to explore. Introducing it to children is a great way to cultivate their appreciation of the natural world and its intricate workings.

5. Learning Objective (-s)

1. Students will discover the interesting process of the water cycle in nature;
2. Students will learn to make a model;
3. Students will develop their digital skills.

6. Phases of the Scenario

Phase 1

Title: Warm-up activity, introduction to the topic

Indoor	Outdoor	Mixed
X		
Phase duration in minutes: 5'		
Detailed description of the scenario phase: Students will guess the natural phenomena by listening the sound. There will be discussions about how rain is formed and what happens to the water after this phenomenon.		
Activity sheets: https://pixabay.com/ro/sound-effects/search/rain/		
Phase 2		
Title: Explanation of work ahead and what is expected of them		
Indoor	Outdoor	Mixed
X		
Phase duration in minutes: 5'		
Detailed description of the scenario phase: It will be explained to the students, that they will learn that water constantly circulates from one place to another through evaporation, condensation, precipitation or collection. The sun is a determining force in the water cycle in nature. If the activity takes place in the classroom, the students will answer the questions orally.		
Activity sheets: N/A		
Phase 3		
Title: Presentation of the instructional-educational content		
Indoor	Outdoor	Mixed
X		
Phase duration in minutes: 35'		
Detailed description of the scenario phase: Students will read the presented material and participate interactively in the lesson. They will learn to make a model with the help of a video tutorial. They will work in teams, consult each other and collaborate to illustrate the proposed theme as best as possible.		

Activity sheets:

<https://www.educationsoutheastwater.com.au/resources/what-is-water-fact-sheet>
<https://www.youtube.com/watch?v=sQvR-XALTgs>

7. Evaluation Methodology

The students will complete a test with the help of the application https://www.proprofs.com/quiz-school/story.php?title=water-cycle_40 to recall the information related to the water circuit in nature and to develop their digital skills. The students' answers will be evaluated through grades or verbal evaluations. The teacher will appreciate the quality of the students' answers, will offer suggestions and recommendations. The teacher will note the successful aspects of the activity and will plan other learning situation that will help the students to assimilate as many knowledge as possible in future lessons.

8. Additional Resources for the teacher

N/A