

Didactic Scenario

1. Title

Solar System

2. Keywords

planets, sun, earth, spaceships, astronauts

3. Basic Information

STEAM Subject: Science, English, Technology

Typical interaction time with the instructional scenario in teaching hours for in-school work:
Technology (1 hour), English (1 hour), Science (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: Solar System model

School infrastructure: Devices, smart board

Additional material from external sources/online tools:

<https://www.youtube.com/watch?v=libKVRa01L8>

<https://www.youtube.com/watch?v=cQt53tatgc8>

<https://wordwall.net/resource/19506529/solar-system/solar-system>

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

Developed by: Otilia Ezaru

4. Educational Problem

Children naturally love the moon, stars, sun and planets. The twinkling stars in the sky fascinate young children, who begin to ask questions about the solar system. This curiosity of learning about the solar system helps children to gain a greater understanding of the planet, Earth.

Knowing why the planet, Earth, is unique and valuable can help them understand the importance of keeping the planet safe and healthy.

5. Learning Objective (-s)

1. Students will discover the wonderful world of Universe;
2. Students will notice the characteristics of the planets;
3. Students will go on a virtual tour of the Solar System;
4. 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 follow a video with information about the planets of the Solar System.

Activity sheets: <https://www.youtube.com/watch?v=libKVRa01L8>

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:
The information they remembered after watching the film will be discussed and analyzed with the students.
It will be explained to the students that the universe is still a space that hides many secrets, and as technology evolves we will find out more and more interesting things.
Students will observe and they will manipulate a model of the Solar System.
They will discover and name the planets in order of their proximity to the Sun: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.
The activity will take place in the computer lab. 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 open the application inquisitive.com and discover it together with the teacher. They will pay attention to the teacher's explanations on the smart board and discover how the platform works.

Students will solve the proposed tasks. By completing these exercises, they will demonstrate that they have consolidated their knowledge about the Solar System.

Students will use VR equipment to take a virtual tour of the universe.

Activity sheets: <https://www.youtube.com/watch?v=cQt53tatgc8>

7. Evaluation Methodology

Students will complete a test with the help of an application to remember information about Solar System and to develop their digital skills.

<https://wordwall.net/resource/19506529/solar-system/solar-system>

8. Additional Resources for the teacher

N/A