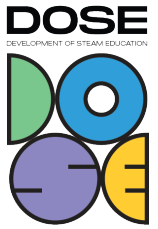


## TEMPLATE for BEST PRACTICE EXAMPLES - SOLVED TASK



1. Name of the task: Planetarium
2. Why did you choose this task?

This task seemed to us to be a great opportunity for pupils to learn the solar system visually, to make a great STEAM example, to work in groups and to communicate together to make something incredible and useful.
3. Subjects covered from STEAM areas:

Natural sciences, art, Lithuanian language, theater.
4. Target group (age range and size of the group):

13-14 yr. 7<sup>th</sup> grade 71 pupil.
5. Duration of the activity:

5 lessons of Integrated Natural Sciences, 2 lessons of the Lithuanian language, 3 lessons of art were allocated for the project.
6. Key words:

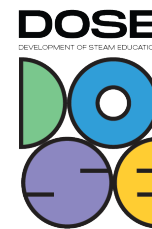
Solar system, Milky Way galaxy, stars, planets, the Big Bang, universe, space travelling.
7. Key sentence describing context of the activity, followed by short description (200 words):

The aim of the project is to be able to comprehensively describe and creatively depict the arrangement of the planets of the solar system, the specifics of the planets, and the galaxy of the Milky Way by combining the disciplines of art, public speaking, dance and natural sciences.
- 8.
9. Description of the activity environment, including the list of materials and tools needed:

Science lab, Styrofoam, rocks, white and colorful sheets for drawing, cardboard boxes, leaves, moss, plasticine, wood, nails, threads, gouache, watercolor paint and metal wire.
10. Step by step, detailed description of the activity, including teaching and learning strategies:

Natural Sciences. Students were introduced to theoretical material about stars and constellations, the origin of the universe, the Big Bang, the universe and expansion,

## TEMPLATE for BEST PRACTICE EXAMPLES - SOLVED TASK



learned what nebulae and galaxies are, discussed scientists' hypotheses about the dynamics of the universe, and deepened their knowledge of the solar system and its constituent planets.

Art. Students have applied the theoretical material acquired in nature lessons in preparation for creating models illustrating the solar system. For project work use: large sheets, cardboard boxes, plasticine, and glue, acrylic, gouache, moss, foil, plants, and expanded polystyrene.

Project workflow. First, the students are divided into 3-4 groups of different abilities. In groups, planar or three-dimensional bases, colored polystyrene foam balls-planets were prepared. According to the chosen topic, the details of the solar system are strong. Lithuanian language. Students gathered information about the planet and learned to quote more interesting facts about the solar system. The accumulated material was used in the prepared layouts. Later, after remembering the requirements of public speaking and public language preparation, students take classmates to their projects. Project works are exhibited in an exhibition organized by students.

Theater. Pupils in all primary classes studied the trajectories of spatial movement according to the solar system, and gathered information and interesting facts from an exhibition on planetary and applied them to theater lessons.

### 11. Learning objectives/competencies:

The aim of the project is to be able to comprehensively describe and creatively depict the arrangement of the planets of the solar system, the specifics of the planets, and the galaxy of the Milky Way by combining the disciplines of art, public speaking, dance and natural sciences.

### 12. Evaluation/Assessment guidelines:

An exposition has been prepared. During its presentation, everyone in the class discussed their accomplishments and emotional reflection.

### 13. Lessons learned:

With the help of information technology, the necessary theoretical material was collected, the students visually indicated the location of the planets in the solar system, and provided all the information about the solar system.

Collected information about the planets, applied the plane and spatial methods of image transmission, search for targeted information in various sources and its application in the created layout, developed public speaking skills, students learned how to convey various information in dance language.

In the end of the activity pupils had creatively revised the general characteristics of the

## TEMPLATE for BEST PRACTICE EXAMPLES - SOLVED TASK



solar system by the models that they've made of planets, and set up the entire structure of the solar system.

A special Qr code has been developed to convey the theoretical material.

### 14. Additional information/Links:

You can watch the video of our Planetarium project in tik-tok account link:

<https://vm.tiktok.com/ZMLvb8TPj/?k=1>

Also you can read about our project and our other school activities in our school

<https://www.facebook.com/kudirka.radviliskis>

### 15. Contact person:

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