

1. Name of the project

Green wall – Making the portrait of Josif Pančić out of wall plants

2. This project requires knowledge and skills from different sections : biology, chemistry, and art

3. The target audience for this project are students starting from grade seven to high school.

4. It takes 2-3 weeks to prepare the activities within this project, and when the installation is formed, the project continues as long as there is biological material that builds the planned character-portrait.

5. Wall, plants, portrait art

6. Students should first plan whose portrait they will label with the help of plants. Students will place flower pots-containers in certain positions on a pre-prepared and wall-fixed steel mesh. The very appearance of the pots as well as the plants in them contrasts with the surface of the wall and thus form a certain portrait.

7. This activity requires:

- A computer on which students will find and process the photo so that it is applicable to the project (work in Adobe Illustrator, Photoshop or Acdsee where they will transfer the photo to a black and white illustration without gray areas)
- Steel mesh according to the format of the wall, in this case 260X160 cm, 8X8 cm field size
- Containers-pots of specific shape and size - according to the illustration
- Planting material – attention should be paid to the nature of plants because they should exist in symbiosis and make a choice according to the illustration
- Portrait drawing paper

Tools needed:

- The net should be repainted to be the color of the wall
- Hilt, screwdrivers, hoshafi for fixing the net to the wall
- Projector
- Welding machine - to make carriers for container pots

8. Introduce students to the idea of making a green wall.

Students should use research to find portraits they want to make.

Place the prepared photo-illustration on the wall and make a 1:1 drawings according to the illustration on paper fixed to the wall.

According to the drawing on paper, the final appearance of the container-pot with plants should be formed.

Students should get acquainted with the nature of plants - their life in symbiosis, plant growth, voluminous plant material

9. Learning objectives, competencies

The goal is for students to learn and apply basic scientific methods: observation, analysis, development monitoring, experimentation, re-analysis of results, inference - project results

The aim of this project is to acquire basic knowledge about nutrition, respiration and excretion in plants. Students will learn to distinguish types of stems in vascular plants, explain the relationship between structure and function of plant organs, students will be able to plan and implement a school project, to exchange and integrate experiences with others, apply the acquired knowledge in project design, creatively present the process of photosynthesis.

It is also the goal that students, applying basic art elements with an unconventional approach, get new solutions and thus expand their competencies.

Students will become independent in their work, gain security, be able to lead and implement similar projects independently

10. In this project it is possible to assess students' interest in participating in work, activity, ability to analyze, evaluate and make decisions

11. Lessons learned:

Students will learn how to conduct research, find and process photography.

Based on the acquired knowledge, by searching the Internet, plant atlases, professional and popular science literature, they get acquainted with the characteristics of plants and their life processes, photosynthesis, transpiration.

Students will learn in a creative way, through practical work, that some plants, creepers, need support to grow, which can be other plants with thicker trees. Also, as plants grow, they will conclude that they turn their leaves to the sun, light, which means that it is necessary for photosynthesis.

In addition to photosynthesis, the students will be able to follow the process of transpiration in plants, observe different shapes of leaves, leaf nerves.

Through the project and the resulting character of Josif Pančić, the students will learn that he is a famous botanist who described about 2500 and discovered 102 plant species, the most famous of which is the Pančić's spruce.

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