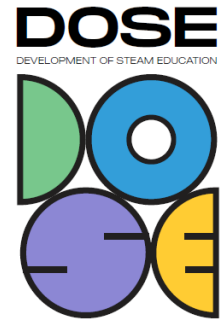




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Lesson / project description

The title	"Vertical Garden"
Subjects covered from STEAM areas	Natural sciences, arts, engineering, mathematics
The target group	children 5-6 years of pre-school education
Learning objectives / competences to be developed	<p>Project goal: to create a vertical garden in a group.</p> <p>Tasks: To strive for children to gain a common understanding of growing plants indoors, to identify and name the plants being grown, to explore the basic conditions needed to support plant growth. To construct a vertical garden using secondary raw materials (bottles, ropes).</p> <p>Competences developed: social, cognitive, communication, learning to learn.</p>
Description of activities	<ol style="list-style-type: none"> 1. Rain of Thoughts "What Does a Plant Need to Grow?" https://www.youtube.com/watch?v=lsD_8wAi93M 2. Working activities sowing seeds in a greenhouse and in a group in pots. (maintenance, monitoring and discussing growth conditions). 3. Discussion of the problem "How to grow and water plants in limited space?" https://www.youtube.com/watch?v=qPhZHbSnB08 https://www.youtube.com/watch?v=YwRkWdBQJpE 4. Tests "How does the water rise?", "Automatic drip irrigation system". 5. Creating, measuring, adjusting a vertical garden, planting plants, maintenance, monitoring. <p>Methods: conversation, observation, discussion, "Rain of Thoughts", construction task, water test. Tools used: ICT, pots, seeds, seedlings, earth, plastic bottles, ropes, drip system, rakes.</p>

**Evaluation
(types and methods)**

Children's reflection, self-assessment using the sticker method: how I'm doing. The teacher observes the children's activities and records their achievements in a descriptive way.

**The result
(present / deliver result)**



**Time (duration) and
learning environment**

The project took place for 2 weeks in a group and outdoors (garden, greenhouse)

Week I. Integrated activities: plant planting, monitoring of growing conditions in a group and in a greenhouse.

Week II. Integrated activities: testing, vertical gardening, planting, maintenance, discussion of results.

**Conclusions / reflection
as far as the teaching /
learning activity is
innovative, accessories**

We implemented an innovative solution, applied the used secondary raw materials to create and water the garden. During the test, the children made sure that the water could "rise" upwards so that the plants could be watered differently.

Contact person

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