KIDS BUILD THEIR KNOWLEDGE AND SKILLS ABOUT THE WORLD THROUGH STEAM

Topic: **Flower Garden**

Resources: a large green plate; instruction card 447 and the associated construction material; brown bricks; eight green flower elements (for stems) and eight flower elements in different colors; seed brick; watering can; sun brick; cloud brick; four little gardeners; four shovels; a tractor with four trailers, coin bricks.

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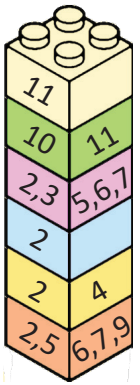
Activities:

1. The teacher distributes the resources to the teams and explains the subject of the lesson – how to grow flowers in a natural environment.
2. The teacher explains, along with the children, the conditions necessary for the life and development of flowers – cultivated soil, water, heat and light. The children are asked to show which construction elements they will use to recreate these conditions.
3. The teacher discusses with the children how to simulate the cultivation of the soil. The 'little gardeners' with their shovels, working opposite each other in pairs, 'dig' the soil to form two beds. The children simulate the cultivated soil with the brown bricks. They arrange them as a narrow bed for planting the flowers.
4. The teacher asks: "What must be planted in the soil for a flower to germinate?" (The children give their answers. They 'plant' seeds in the beds by 'sprinkling' with the seed block, then water the seeds with the watering can).
5. The teacher explains that the development of each flower requires time, which we will illustrate with by passing the sun and clouds over the garden. The children take turns to act out these events.
6. The teacher explains that the first stage of a flower's development is the appearance of a small green leaf above the soil. The children simulate this stage by placing the green flower-stem elements in the beds.
7. The teacher now asks the children to simulate the passage of the time needed for the flowers to come into full bloom.
8. The teacher asks each team, with a garden of flowers in full bloom, to hitch the trailers to the tractor. One child from the team is to cut the flowers and transport them to the designated storage place (a place chosen by the teacher at the side of each garden).
9. The teacher asks each team to remove all the elements from green plate and then build a flower stall on it. To do this they follow the instructions on the card (447).
10. The teacher asks for the tractor to bring the flowers from the storage place to the market. The children arrange the flowers on the stall, grouping them by type and color, and pricing them.
11. The teacher summarizes the journey the flowers have made from planting to the flower market.