Working Plan

Gardening our school

Title : Gardening our school	**Time :** 1st and 2nd semester
Teacher: Ministro Rossella	
Subject : Science, Maths, Social Studies, Geography, Geometry	
Aim: Know the soil structure and living organisms; Interpreting the consequences of human modification; Know the ecological problem and the issues related to recycling and savings; Develop correct attitudes and habits in relation to ecological problems	
Key CS elements: decomposition, pattern recognition, abstraction, practicing algorithms	
Age group : 4th graders, 9-10 year olds	
Learning situations: Laboratory and integrated teaching Use of the disciplinary classroom-scientific laboratory Microlearning Scientific method for STEM Tinkering Debate	**Activity type :** observation, analysis, implementation
Resources: Set of gardening tools, Reusable gardening bag, Impregnating agent for external wood	

Learning development:

DECOMPOSITION.

First we observe the territory, the soil, the garden.
We debate the type of the soil, flowerbed, the organisms we see and the plants.
What kind of soil is it?
What kind of plants do we want to plant?
What type of seed do we need?
What is the shape and the dimension of the area we want to cultivate? (Square, rectangular, triangular, circular…)
How many flowers do we want to grow?

PATTERN RECOGNITION.

Type of soil;
seed;
digging;
planting;
water

ABSTRACTION.
After observing and analyzing and understanding the material we need to cultivate;
Students draw the model of the flowerbed;
They choose the flower seed they want to plant;
They create paper flowers with some coloured sheets;
They make a watering can with paper
They create a poster with the elements prepared.

ALGORITHM.
Observing the soil;
Deciding the type of seed;
Digging;
Planting the seed;
Covering with soil;
Watering;
Waiting for it to grow.

Assessment:
MONITORING OF LEARNING OBJECTIVES
Multiple choice and open-ended questionnaires on the Biosphere and ecosystems, natural balance and climate change
VERIFICATION OF KNOWLEDGE AND SKILLS
Accurately reproduce the ecological pyramid
Observe, collect data, plan, implement, verify and evaluate a project
Use 3R (repair, reuse recycling)
ASSESSMENT OF SKILLS LEARNED
Authentic tasks

Ongoing observation Storytelling
Expected results: We expect students to know the territory of their school and to know the different types of seeds and how a plant grows and take care of them.
Notes: The project involves the arrangement of the two flower beds placed laterally at the main entrance of the Primary School of Valchiusa. The aim of the project can be found in the section Objectives and objectives. It is aimed at each and every one with a view to effective inclusion. Each discipline, directly or indirectly, will be involved in the project design, implementation and evaluation process, especially STEM disciplines.