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INNOVATING FOR A SUSTAINABLE FUTURE

# OUR SCHOOL GARDEN

## A LEARNING SPACE

ERASMUS + PROYECT  
2023-1-ESO1-KA210-SCH-000151636  
ECO FRIENDLY CHILDRENS



The Juan XXIII-Cartuja School Garden occupies an area of approximately 700 m<sup>2</sup>, in the rear area of the schoolyard. In it, the following spaces are distributed: irrigated terraces, dry crops, wooded with Meadow, composting and workshop classroom.



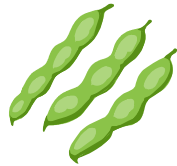


## Irrigated terraces.

There are 10 cultivation terraces. In each of them there is a drip irrigation system installed with its own stopcock so that they can be irrigated independently from the others. All of them are, in turn, connected to a common stopcock and an irrigation programmer.



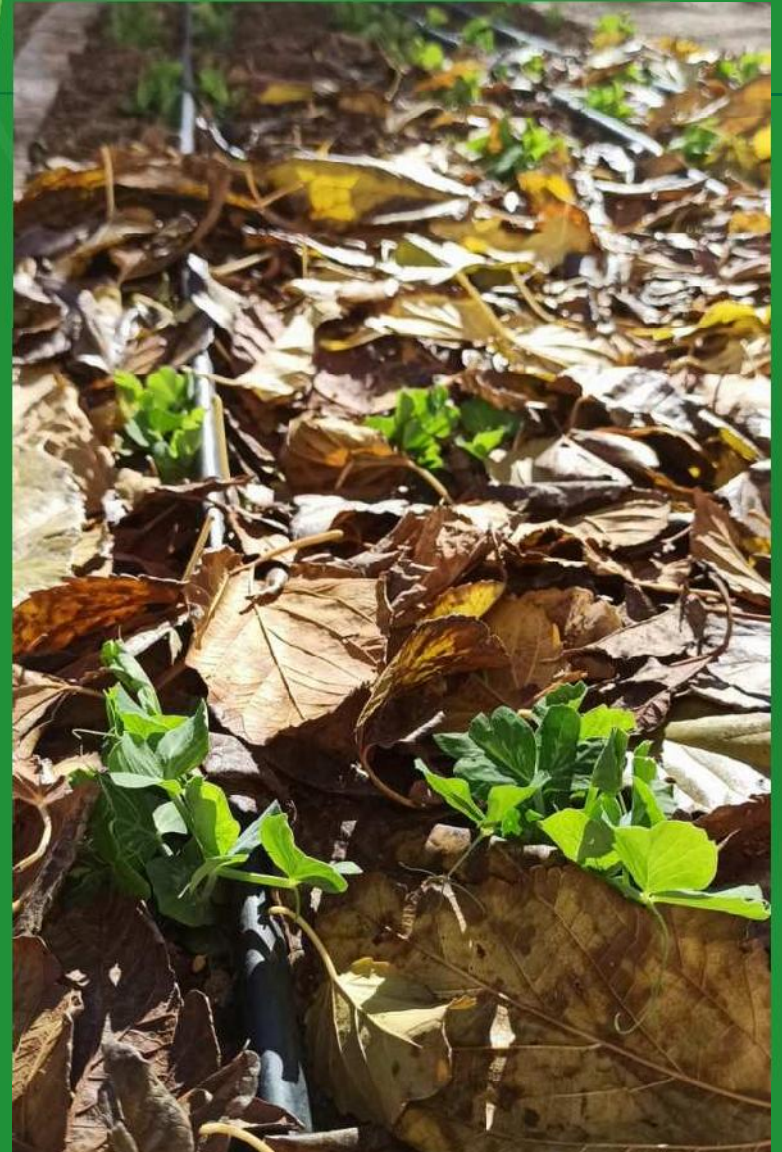
Here we will plant typical garden vegetables in the Granada area: broad beans, beans, onions, lettuce, garlic, cauliflower, zucchini, peppers, aubergines, cucumbers, sunflowers, ...





In addition, each year the soil is enriched with compost or mulch, coming from the composting of the plant waste produced by the garden itself and the leaves of the trees in the school yard.

We also use the dry leaves of the trees as mulch in the beds, which serves to reduce water consumption and the proliferation of herbs and also improves soil temperature and the proliferation of associated fauna and beneficial microorganisms (fungi and bacteria).





**Dry crops. There are two areas for the cultivation of rainfed species. In these spaces we usually plant cereals (wheat, barley, rye,...).**







## Composting.

In a corner in the shade of the trees, in the orchard, we have begun to accumulate the shredded harvest and pruning remains in a compost heap where the nutrients are recycled to later be reincorporated in the form of fertilizer to crops.

Making a compost heap that works isn't very complex, but you do have to follow some minimum rules.



**Classroom Workshop.** The Workshop was built in the 2010-11 academic year with a double function. On the one hand, it is the storage room for farm tools and implements (hoes, pitchforks, spades, mowers, rakes, shovels, sowers...), as well as the place where you can prepare cuttings and seedbeds, select and store seeds, prepare and classify garden products etc. It is also equipped with work tables and a blackboard for short explanations.







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## OBJETIVE 1

Take advantage of the educational potential of a school garden by integrating the principles of an eco-school and contribute to the objectives of Sustainable Development.



## OBJETIVE 2

A school garden fosters connection with nature, promotes sustainability, and provides a hands-on experience to learn about agriculture, healthy eating, and the importance of caring for the environment.





### **OBJETIVE 3**

**Cultivation of native species adapted to the local climate: Reduction of the hybrid footprint and promotion of biodiversity**



### **OBJETIVE 4**

**Use of organic farming techniques: Without pesticides or chemical fertilizers, protecting the health of the soil and students**



### OBJETIVE 5

Integration with the school curriculum:  
Practical activities that complement  
science, mathematics, language and  
other subjects



### OBJETIVE 6

Active participation of the educational  
community: Collaborative work between  
students, teachers, families and the local  
community





### **OBJETIVE 7**

**Recycling and composting of organic waste: Transformation of waste into organic fertilizer for the garden, promoting the circular economy**



### **OBJETIVE 8**

**Water savings and responsible management of resources: Efficient irrigation systems and practices that promote the responsible use of water**



# BENEFITS OF THE SCHOOL GARDEN



## 1. CONNECTION WITH NATURE

Appreciate the life cycle of plants

## 2. HEALTHY FOODS

Grow and consume fresh produce

## 3. ENVIRONMENTAL RESPONSIBILITY

Promote sustainable practices

## TEAMWORK

Encourage collaboration between students

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*"Innovating today, for a greener tomorrow."*

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# LEARNING ACTIVITIES

## SOW AND HARVEST

Practice experience of the school of life



## RESEARCH AND OBSERVATION

Identify pests and diseases.



## COOKING AND NUTRITION

Preparation of recipes with fresh products.



# PLANNING AND ORGANIZATION



## PLANT SELECTION

Adapt to climatic conditions

## LAND PREPARATION

Ensure fertile, well-drained soil.

## REGULAR MAINTENANCE

Irrigation, pruning and pest control.

## HARVEST AND CONSUMPTION

Enjoy the fruits of labor.



# CURRICULAR INTEGRATION

## SCIENCES

Study the biology of plants



## LANGUAGE AND LITERATURE

Write about the growing process

## ART

Create works inspired by nature

## MATH

Measure, calculate and graph

# CONCLUSIONS AND NEXT STEPS



**ENCOURAGE  
LEARNING**



**CONNECT  
WITH NATURE**



**PROMOTE HEALTHY  
HABITS**



**CONTINUE WITH  
THE PROJECT**

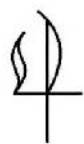


**EXPAND THE  
GARDEN**



**ENGAGE THE  
COMMUNITY**

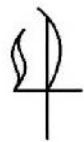




JUAN XXIII CARTUJA





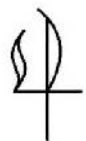


JUAN XXIII CARTUJA









JUAN XXIII CARTUJA



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**CENTRO JUAN XXIII CARTUJA:  
INNOVATING FOR A SUSTAINABLE FUTURE**

**Thank You**

For your attention



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