

# **Irrigation Systems**

Submitted by Lajtos Gábor on Wed, 06/15/2022 - 10:59

## **Type of lesson / project plan**

Lesson plan

## **Sector**

Agriculture, forestry, fisheries and veterinary

## **Topic, learning area**

Irrigation systems for plant walls

## **Vocational subject(s)**

Garden technology

## **Grade**

14th grade

## **Learning and development goals**

Irrigation system for plastic and metal-structured plant walls design

## **Concepts**

plastic and metal framed plant walls

## **Required tools**

Smartphone, tablet, internet access

## **Materials released before class or for a project**

<https://www.youtube.com/watch?v=CId3DOjJNTQ>

## **Introductory part and preparation of the lesson / project plan**

Searching for a video in social media (Youtube) that introduces the topic. Setting the aspects and questions to the students based on which they can drive their own new knowledge acquiring process.

Students watch the video pre-class.

The teacher prepares the teaching material (ppt) pre-class.

## **Implementation of the lesson / project plan**

The lesson takes place with the active participation of the students, the teacher helps the understanding, directs the conversation, explanations if necessary.

Didactic activities:

- Organization – 2 min. – listening to presence reports, instructions by the teacher
- Motivation 3 min. – dialogue

Have you all watched the video?

Would you like to discuss on it?

- Preparation – 4 min. – introduction to the topic by the teacher

Structure of plastic and metal green walls, its elements

Types of irrigation systems

Assembling of different irrigation systems

Elements and parts of irrigation systems

- Processing new knowledge – 30 min. – discussion, questions and answers

Getting to know the irrigation system of plant walls outdoors and indoors

Steps for designing an irrigation system for plant walls

How can you design an irrigation system in the plant walls?

What are the parts of the irrigation system?

What operates the irrigation system?

How can we choose the proper irrigation system?

Where can you get its parts from?

What can you implement yourself, as diy?

- Consolidation of the knowledge – 5 min. – instructions, dialogue

Discussion of emerging questions

If necessary, reviewing the video

- Assessment – 1 min. – verbal

Evaluation of classwork and the video

### **Used digital devices**

Genially

Biteable

### **Evaluation plan**

Peer evaluation by the students.

### **Differentiation**

Those who have watched the video at home will help those, who have watched it only at the beginning of the lesson as they will have studied the video at least 2 times until the lesson starts.

### **Homework, project task**

Search for similar videos on the Internet that can deepen their knowledge on the topic, or try to create their own.