

# Irrigation Systems

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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.