

Ecosystem farm

Vittoria Liucci | 16/08/2023

Analysing the environmental and agronomic benefits on a farm where one or a few plant species provide production assessable in economic terms.

LEARNING OBJECTIVES

Identifying and describing the significant characteristics of environmental contexts

Organising environmentally friendly production activities

Managing production

Interpreting Community, national and regional rules on integrated agricultural activities

Carrying out promotional activities for the enhancement of agri-food products related to territorial characteristics

C'S OF EDUCATION

COLLABORATION

COMMUNICATION

CRITICAL THINKING

CREATIVITY

AGE GROUP

From 16 to 19

SCENARIO LANGUAGE

English

TOTAL DURATION

9 hours

SUBJECTS

CROSS CURRICULAR

DESIGN - TECHNOLOGY

DRAMA - ECONOMICS

LAW

NATURAL SCIENCES

IDENTIFYING ENVIRONMENTS FOR ORGANIC AGRUCULTURE



Interactive video

INTERACT & INSTRUCT

C'S OF EDUCATION

CRITICAL THINKING

TOOLS

Interactive video tool

SPACE FORMAT

Public

POSITION OF LEARNERS

Together

ROLE OF TEACHER

Teacher-led

DESCRIPTION

The teacher shares a video with the students to which feedback questions, instructions or quizzes have been added. By analyzing the individual results on the platform of the tool, the teacher gets feedback on the understanding of the students.

CROPS ON HARD SOILS AND NATURAL SOIL IMPROVERS

1
HOUR
0
MINUTES

Think-Pair-Share

EXCHANGE & DISCUSS

C'S OF EDUCATION

COLLABORATION

COMMUNICATION

CRITICAL THINKING

TOOLS

The students will use on line tools to recognise the machineries for herbaceous crops.

SPACE FORMAT

Private, limited distraction

POSITION OF LEARNERS

Small groups

ROLE OF TEACHER

Teacher at the side

DESCRIPTION

In the first round the students individually reflect on the problem of the different types of arable like forafe and winter cereals. In the second round the students pair up in groups of 2. After explaining their individual thoughts, they try to understand all the agronomic practices required by EU for farming: the elimination of leaching of nutrients, the reduction of greenhouse gas emissions, the erosion control, the progressive increase in soil fertility and biological activity. The 3rd round is a plenary session with sharing the thoughts of the groups and a class group discussion.

1
HOUR
0
MINUTES

SWOT Analysis

INVESTIGATE & RESEARCH

C'S OF EDUCATION

COMMUNICATION

CRITICAL THINKING

TOOLS

Both resource list and questions can be added to a shared online document.

SPACE FORMAT

Fully virtual

POSITION OF LEARNERS

Alone

ROLE OF TEACHER

Independent learning

DESCRIPTION

Students are presented with a specific problem or question and with a selection of resources (usually a list of links to online materials) that they can use to answer which are strenghts, weaknesses, opportunities and threats in a bioagroecosystem.

2
HOURS
0
MINUTES

Business Plan

INTERACT & INSTRUCT

C'S OF EDUCATION

COMMUNICATION

CRITICAL THINKING

TOOLS

Drawing up a business plan using off line materials that teacher has selected for students

SPACE FORMAT

Public

POSITION OF LEARNERS

Small groups

ROLE OF TEACHER

Teacher-led

DESCRIPTION

All the students follow teacher's explanation and fill in the document to highlight costs and benefits to manage the business: organisation, description of business, market analysis, financial plan, financial funding, marketing and sales.

1
HOUR
0
MINUTES

Infographic

CREATE

C'S OF EDUCATION

COMMUNICATION

CRITICAL THINKING

TOOLS

Infographic tool

SPACE FORMAT

Public

POSITION OF LEARNERS

Together

ROLE OF TEACHER

Teacher at the side

DESCRIPTION

Students analyse data and create an infographic poster which visualizes and summarizes the core components as well as the logical relations between the components, the effects of sustainability of the crops on the hard soil, how the natural environment is being affected by sustainable production

SHOWCASES

2
HOURS
0
MINUTES

Sharing with a real audience

PRESENT & SHARE

C'S OF EDUCATION

COMMUNICATION

CREATIVITY

TOOLS

Presentation or web-conferencing tool

SPACE FORMAT

Public

POSITION OF LEARNERS

Together

ROLE OF TEACHER

Teacher at the side

DESCRIPTION

Students and teacher invite a real audience other than peers in the classroom, e.g. other classes of the school, parents, partner schools, an outside expert.

FEEDBACK



Self-evaluation

ASSESSMENT & FEEDBACK

C'S OF EDUCATION

CRITICAL THINKING

TOOLS

Rubric maker tool

SPACE FORMAT

Private, limited distraction

POSITION OF LEARNERS

Alone

ROLE OF TEACHER

Independent learning

DESCRIPTION

When completing an assignment, students fill in a self-reflection sheet and they grade themselves according to rubric criteria.



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