SCIENTIX
The community for science education in Europe

Life Terra

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right seed in right place

SCIENTIX
STEM
DISCOVERY
CAMPAIGN
2024

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Summary

Planting the right tree in the right place is important because it increases the chances of it growing and developing in suitable conditions. A well-chosen location supports the healthy growth of the tree and benefits the environment. Additionally, planting the right tree in the right place can help balance the ecosystem and increase biodiversity. Students will observe which plants can live in their immediate environment. They will realize what conditions are necessary for plants to grow.

They will be able to explain that different plants grow in different conditions.

Key elements

The lesson plan supports the different achievements covered in various lessons. The scenario to be implemented for a week includes group activities where students can exchange ideas.

Overview	
Subject	Life science Maths Science Technology
Topic	Planting the right tree in the right place is important because it increases the chances of it growing and developing in suitable conditions
Age of students	6-7 years ego
Preparation time	5 lessons
Teaching time	180
Online teaching material	*Kahoot* *Wordwall* *padlet*
Offline teaching material	
Resources used	*those who make the difference* https://youtu.be/nq-22sR9neo

License

Aim of the lesson

They will be able to explain that different plants grow in different conditions.

Trends

Collaborative Learning

Peer Learning

Project Based Learning

STEM

Open source Learning

21 century skills

. Collaborative Learning Peer Learning Project Based Learning Open source Learning

STEM Strategy Criteria

Elements and criteria	How is this criterion addressed in the learning scenario
Instruction	
Personalization of learning	Students will be asked what plants are in their immediate environment and the characteristics of these plants.
Problem and project-based learning (PBL)	They will be asked to investigate why different plants do not grow in their environment.
Inquiry-Based Science Education (IBSE)	They will be asked to observe the positive and negative effects of climate, soil, water and other factors in their immediate environment on plants.
Curriculum implementation	
Emphasis on STEM topics and competencies	It protects nature and raises awareness for a sustainable World.
Interdisciplinary instruction	Activities are explored through a variety of STEM and non STEM subjects.
Contextualization of STEM teaching	Realizes that plants are alive. It creates an environment for their growth and development. Realizes how to use the soil efficiently.
Assessment	
Continuous assessment	evaluated by giving instant feedback
Professionalization of staff	
School leadership and culture	
Connections	
With industry	*A presentation will be made about TEMA foundation and its work.*
With parents/guardians	Parents' comments and suggestions will be sought.

With other schools and/or educational platforms	School teachers and guidance counselors will lead
School infrastructure	
Access to technology and equipment	Teacher can use tablets, laptops, and smartphones with internet connection. However, there are ways to modify tasks for those, who don't have a good access to technology and/or equipment.
High quality instruction classroom materials	

***Connections >> With industry**: in the context of this learning scenario, a school visit to a research center will be scheduled, either physically or virtually, so students can directly discuss with professionals about the recent developments in the field.*

***Interdisciplinary instruction**: in this learning scenario, we will examine and implement a variety of activities in a wide spectrum of subjects, ranging from ethics and philosophy (non-STEM) to biology and chemistry (STEM).*

Lesson Plan

Name of activity	Procedure	Duration
1-Lesson	Students will be asked to examine the plants and their characteristics they see in their immediate environment. They will be asked to examine the plant seeds and saplings brought to the classroom. Their observations will be written on the board.	40 minute
2-Lessons	The video of the formation of the tree will be watched and the students' opinions will be discussed. Presentations will be made about TEMA foundation and its work.	40 minute
3-Lessons	*TEMA foundation's videos about nature and trees will be watched.* *https://youtu.be/v2GnROASyL4* *https://youtu.be/wDmNTFrAK9E*	40 minute
4-5 Lessons	*The seeds and saplings brought by the students will be planted in the school garden and observed. It will be monitored which plant is suitable for the conditions and which is not.*	40 +40 minute
	Plants and trees in the school garden will be observed and their similar and different characteristics will be discussed. The climate of the environment, soil structure, and characteristics of the location will be explained. Students' opinions will be listened to on what kind of environment can be created for the growth of different plants.	

Assessment

Students will be asked to create a poster on the subject.

Student feedback

Students will form a group and prepare a presentation. They will share their work with other students through posters.

About Life Terra

Life Terra is one of Europe's largest climate action initiatives. It seeks to bring people together to plant 500 million trees in 5 years, prepare future generations, drive greener policies across the board and generate investment and growth in green jobs. The main objectives are to:

- Engage a record number of individual citizens and stakeholders to take action towards climate change mitigation by facilitating the planting of 500 million trees in Europe by 2025.
- Connect these participants through an innovative and comprehensive Web platform and app that organizes and streamlines the planting process for scaling up.
- Innovate in the latest monitoring and satellite technologies to provide citizens and specialists alike with precise and transparent data on trees planted.

Inspire the next generation of EU citizens to thrive in the face of climate change challenges, through a unique STEM-based sustainability education program.

Annex (if needed)

Why are greenhouses used?