

Lesson Scenario

no.10

BASED ON THE STEM
LEARNING CONCEPT AND
METHODS OF NON-FORMAL
EDUCATION

ABOUT

The STEM concept is an educational idea concerning the subjects of Science, Technology, Engineering and Mathematics. Rather than dividing them into separate curriculums, as in the traditional system, the new concept focuses on an interdisciplinary approach. This way promotes finding connections and is more in touch with modern labour market.

The STEM approach is based on activating pupils in the classroom and providing a "hands-on" experience which enables young people to learn based on their own findings. This project based style creates also a chance to develop soft skills and practice cooperation, group work and problem solving abilities. Combining the STEM idea with non-formal learning methods promotes self-awareness about personal development, builds confidence and, above all, fosters motivation through curiosity.

LEAVES IN CLOSE UP

Students gather leaves from local trees and observe their cells under a microscope. They try to find and describe the similarities and differences between various types of leaves.

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|------------------------------------|---|
| For whom? | 5th / 6th Grade |
| How much time do you need? | 45 minutes |
| What will you learn? | Cell structure Introduction to photosynthesis Local flora |
| What soft skills will you develop? | Drawing conclusions Observation skills Precision |
| What do you need? | Leaves from local trees Microscope - one per group Cover glasses Distilled water |

INSTRUCTIONS

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01.

Divide the class into small groups

02.

Each group gathers leaves from local trees

03.

Each group prepares leave samples using cover glasses and distilled water

04.

Students observe the samples under the microscope

05.

Groups try to list similarities and differences in various leaf types

06.

Discuss the cell structure of plants

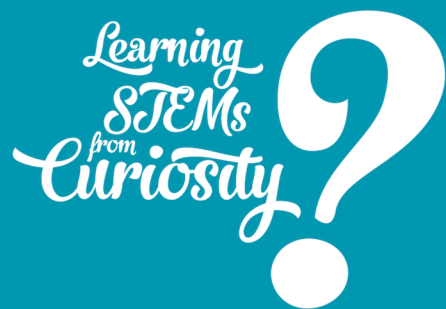
This lesson scenario was prepared by the participants of an Erasmus+ Youth Exchange Project titled Learning STEMs from Curiosity.

Participating Organizations:

Stowarzyszenie Przyjaciół Szkoły Podstawowej nr 1 w Barczewie

Vilniaus r. Nemencines Gedimino Gimnazija

For more information and resources please visit the project website by scanning the QR code below.



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