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# Lesson Scenario

no.3

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.

# LAYERS OF DENSITY

Working in pairs pupils will create a layered colour mosaic using liquids of various density and food colouring.

For whom?	2nd / 3 rd Grade
How much time do you need?	45 minutes
What will you learn?	How liquids of different density interact Basic concept of material density Diffusion
What soft skills will you develop?	Working in pairs Precision Creativity
What do you need?	High glass jar (about 1 litre) per pair Liquids of different density (water, vegetable oil, dish soap, whole milk, maple syrup, honey etc.) Food coloring

# INSTRUCTIONS

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01.

Divide the class into pairs

02.

Each pair experiments with different liquid densities

03.

Each pair experiments with food colouring

04.

Pairs create their colour mosaics by pouring different liquids layer by layer

05.

Each pair presents their colorful jar and explains their inspirations

06.

Discuss the concept of density

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

Participating Organizations:

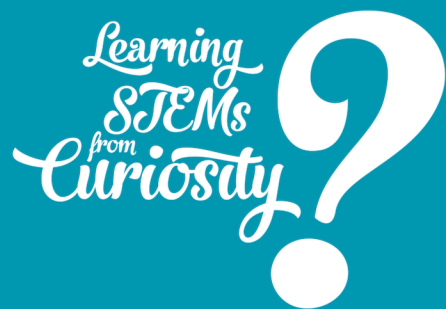
Stowarzyszenie Przyjaciół Szkoły Podstawowej nr 1 w Barczewie

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

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