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# Lesson Scenario

no.9

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.

# CLOUDS IN A JAR

Students observe the formation and movements of clouds using a jar, hairspray and ice.

For whom?	5th / 6th Grade
How much time do you need?	45 minutes
What will you learn?	Concept of condensation Different states of water in the system
What soft skills will you develop?	Analitical thinking Making observations Wroking in pairs
What do you need?	Large glass jar per pair Hairspray Ice Hot water

# INSTRUCTIONS

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01.

Divide the class into pairs

02.

Pour hot water into the jar and cover it with the lid placed up side down

03.

Place ice on the lid

04.

Uncover the lid and quickly spray some hairspray into the jar

05.

Observe the formation and movement of the clouds

06.

Discuss the circulation of water in an ecosystem

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

Participating Organizations:

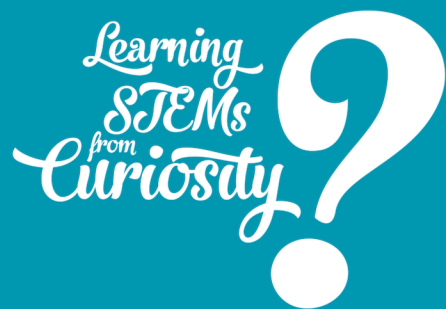
Stowarzyszenie Przyjaciół Szkoły Podstawowej nr 1 w Barczewie

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

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