

Lesson Scenario

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

The STEM concept is an educational idea concerning the subjects of Science, Technology, Engeneering 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.

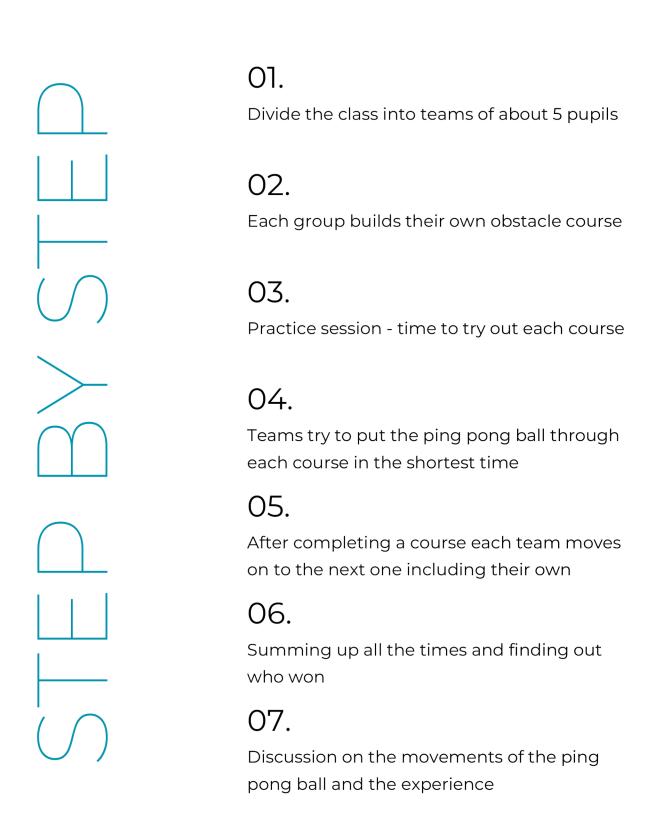


PING PONG BALL OBSTACLE COURSE

Using the air stream provided by hair dryers pupils will balance a ping pong ball and move it arround an obstacle course. This provides a fun way to learn about vectors of force and Newton's laws of motion.

For whom? 6th / 7th Grade How much time 2 x 45 minutes do you need? Newton's laws of motion What will you Vectors of force learn? Geometry Working in groups What soft skills Organizational skills will you develop? Competing as a team Performing under pressure 2-3 Hair dryers per group What do you Couple of ping pong balls PVC pipes for the obstacle course need? Stopwatch

INSTRUCTIONS



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

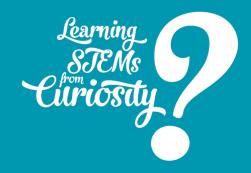
Participating Organizations:

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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