

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.

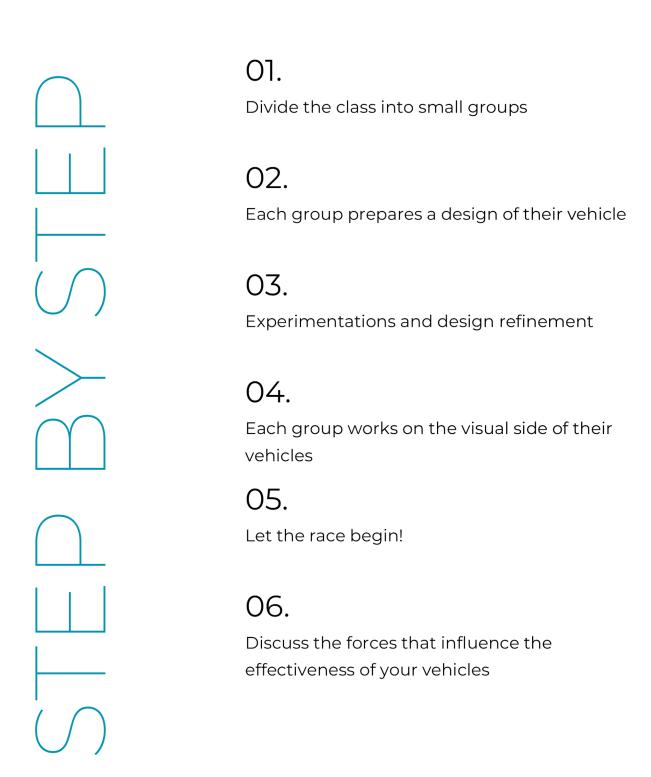


AIR-POWERED VEHICLE RACE

Students build mini-rockets using matches and tin foil. Next they try their best at some target practice.

For whom? 7th / 8th Grade How much time 2 x 45 minutes do you need? Newton's laws of dynamic What will you Friction learn? Storing and releassing energy Problem solving What soft skills Creativity will you develop? Group roles Task division Balloonss Empty plastic bottles What do you Cardboard need? Bottle caps for wheels Hot glue and glue guns

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

Vilniaus r. Nemencines Gedimino Gimnazija

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







Co-funded by the Erasmus+ Programme of the European Union

Erasmus+