

IGNĂTESCU VALERICA /FILADELFIA THEORETICAL HIGHSCHOOL SUCEAVA/ROMÂNIA

CHEMISTRY THROUGH THE STEAM METHOD

Objectives:

- Promoting an engaging learning environment;
- Interdisciplinary approach to chemistry concepts;
- Stimulating students' interest in science

Project goal

The implementation of activities which promote STEAM education, a structured process of integrating sciences, aimed at shaping future intelligent adults who will be easily adaptable to society and capable of bringing out the knowledge acquired in the educational process to their future workplace.

Sciences - terminology, the presentation of minerals that contain a metal, the writing of formulas and the demonstration of the proposed experiments;

Technology—the creation of digital presentations and videos of real-life applications;

Engineering- the construction of experimental demonstration of electrical conductivity of some solutions, used in various fields;

Art the use of minerals as pigments, the making of medals, ornaments, the association of minerals with butterflies;

Mathematics – the preparation of solutions with certain concentrations, solving practical problems.



Through the conducted experiments in the lab, we have highlighted the physico-chemical properties of copper, homogeneous and heterogeneous mixtures. We have verified the physical and chemical phenomena, with applications in science, technology, engineering and art. Through these activities, we are building the foundation of a future adult who possesses capabilities, skills and solutions, at the same time also shaping educators, innovators and leaders of the 21st century.