Online Teaching Advancement
science through art

2nd Newsletter - September

The Project

In these last months, the OTA project partners achieved part of their objectives and produced two of the most important results on which to base their future action.

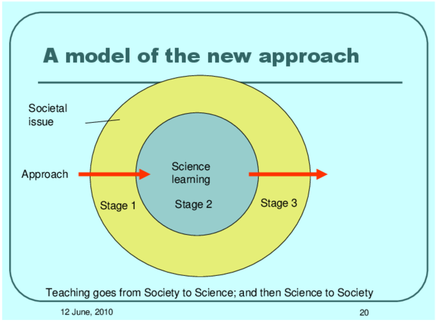
A survey was conducted mainly among primary and secondary school teachers in the partner countries, in which they were asked to give their opinion on their experiences during the lockdown.

OTA wants to use a new method of teaching STEAM subjects by exploiting the potential of digital; it was therefore crucial for the project partners to understand what the interviewed teachers' relationship with technology was and what use they had already made of digital tools during distance learning.

In addition to this, the survey was aimed at investigating which topics identified within the subjects Mathematics, Physics and Chemistry, had been the most difficult to teach and learn online; which topics, therefore, the teachers considered most in need of support tools.

Many insights were acquired from this research, which later made it possible to create the innovative methodology based on a specific model: the three-stage model according to which education goes from society to science and then from science to society.

The OTA Methodology



Source: Rannikmäe, M., Teppo, M., & Holbrook, J. (2010). Popularity and relevance of science education literacy: Using a context-based approach. Science Education International, 21(2), 120.

The different stage that the OTA project wants to bring into the activities are three:

- Motivational
- Investigational
- Consolidation

The first one is aimed to motivate and engage the pupils by proposing them a problem or topic that is closely related to their everyday life. Thus, the pupils will be asked to solve a problem or topic related to something that is familiar to them and not a simple exercise.

The Investigational stage is aimed to enhance pupils' social engagement through collaborative teamwork. In this stage they should share the findings, discussion of the relevance and reliability of the results, is the stage in which all the pupils' activities are concentrated to find a solution to the problem.

The last stage is crucial for assessing the students' learning progress. It is the stage in which students reflect on the issues addressed in the previous stages in the light of the chosen methods, through discussion, argumentative debate, role-playing and deriving decisions relevant to the issue.

Based on this methodology, the project partners are creating activities that successfully combine the teaching of science and the arts.

In the picture some of the project partners gathered in Ljubljana, Slovenia, for the fourth transnational meeting June, 2022

More information

All resources produced over the months by the partners will be available on the website, while on the Facebook page you can find all news and tips related to the project and the STEAM approach.

Visit ota-project.eu

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