

WORKING AND LEARNING WITH VIRTUAL WORLDS

Eliciting further abilities with hands- on technology.









WORKING AND LEARNING WITH VIRTUAL WORLDS



NUMBER ACRESTA

THE STATE OF THE S

FLICITING FURTHER ABILITIES WITH HANDS-ON TECHNOLOGY



EDUCATIONAL NETWORKS OFFER TEACHERS PLENTY OF RESOURCES AND NEW INTRIGUING TOOLS TO BOOST THEIR TEACHING STRATEGIES





AR VOLCANO

THE PURPOSE OF THIS PROJECT WAS TO PROMOTE A DEEPER UNDERSTANDING OF CONCEPTS, STARTING WITH A SIMPLE TOPIC TO GET TO ACADEMIC AND SOCIAL EXPERIENCES WHERE STIJIENTS ARE THE MAIN CHARACTERS INVOLVED.



APPROACH
TAX - MAIS
CONTRAINE
HART IN CONTRAINE

ACTIVITIES AND EXPERIMENTS WEARLY MARLANCE MEXICAGE NATIONES

LAND
LESSONS'ST

REMEMBER OF THE
THEFTER HITTERS
FINAL PLANT
FINAL PLANT
FINAL PLANT

A PRICESS ONLY IN-COMENY DATASE ACCUSING PRICESS ON A STREETING PRICESS ON DRICKS ON THE DESIGN OF MAIN CONSTITUENTS OF A VOLCANO

CHEMICAL REACTION

AR VOLCANO



















FOLLOW-UP ACTIVITY ON THE VOCABULARY

CONCLUSION

THE FEEDBACK RECEIVED SHOWED THAT THE EXPERIMENT WAS EXCELLENT IN HELPING STIMULATE STUDENTS' MOTIVATION.

AUGMENTED REALITY PROVED TO BE A VERY USEFUL COMPLEMENTARY NEW TOOL TO Enhance the learning experience thanks to its dramatic visual impact.





This learning project focused on:

- The impact that technology has had on today's school
 - innovative materials are rapidly entering the science class
 - educational networks are increasing on the web, offering teachers plenty of resources and new intriguing tools to boost their teaching strategies

Technology



use of augmented reality



educational networks' resources





How does SCIENTIX work?

- Scientix is a project funded by the European Commission and coordinated by European Schoolnet (EUN), based in Brussels.
- At the national level, Scientix is supported by Scientix National Contact Points (NCPs) and Scientix Ambassadors.
- Scientix promotes Europe-wide collaboration among STEM teachers, education researchers, policymakers and other STEM education professionals.







• I am a Scientix Ambassador and as a member of the Scientix

Teacher's Panel — my role is to promote Scientix among STEM teachers and other science education stakeholders in Europe and to advise teachers on how to get involved in European activities regarding STEM.





ABOUT Scientix blog Subscribe to our email updates to get all the latest Vera Krajčova, STEM Teacher, Czech Republic, speaks about her vera axayeuva, 31 Last teacurer, execut supunue, speaus acout net favourite moments from her involvement in the Scientist project, and he possibilities of online training activities for teachers, like she SCIENTIX INTERVIEW SERIES explains in this Scientix interview.

The **Scientix** portal:

- Information about training events organized by Scientix (Scientix live);
- Opportunities for teachers and project managers on how to connect with Scientix (Community)
 - Overview of STEM education projects included in Scientix (Projects)
 - Over 1600 educational resources (Resources)
- STEM DISCOVERY WEEKShort articles on STEM education (Observatory)
 - National Points of Contact and Teachers' Panel (In your country)
 - And many more...



PROJECT OVERVIEW

The purpose:

to promote a deeper understanding of concepts, starting with a simple topic to get to academic and social experiences where students are the main characters involved (students were asked to show their entire work to younger fellow students).



As part of the project, all the participating students were asked to show their entire work to younger fellow students making this a very satisfactory experience, as they felt important actors in the teaching-learning process (peer tutoring).





3 micro tasks

 To start with, we used a papier mâché volcano the students had built on a previous activity.



1. the vocabulary needed to identify the main constituents of a volcano

2. the chemical reaction used to simulate a volcanic eruption





3. the use of augmented reality to show how volcanoes work and a follow-up activity on the vocabulary learnt







The feedback received showed that the experiment was excellent in helping stimulate students' motivation. Augmented reality proved to be a very useful complementary new tool to enhance the learning experience thanks to its dramatic visual impact.



