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BotSTEM – Erasms+ KA2 Project

2017-1-ES01-KA201-038204

Good practice template

1. Title of the activity / practice	**Making an 'active' volcano**
2. Origin of the activity	A primary school teacher lesson plan from FYROM
3. Age of the students	6 and 7 year-old students
4. Target group (type of the learners, size of the group)	First and Second Graders in Primary Schools in Macedonia (3- 20+) Private lessons to everyday state school classes
5. School subjects + topics concerned	Science / Theme 1: Environment/ Nature
6. Educational goals of the practice	- Students will learn more about how lava is formed - Students will become aware about the effects volcanos have on the soil, the dangers and the devastation they sometime leave behind but also about the tremendous force of nature
7. Duration	40 minutes
8. Place	In the classroom
9. Short description of the activity	http://www.dailymotion.com/video/xz4nq8_how-to-build-a-model-volcano_lifestyle The students in groups build volcanos out of clay and add certain ingredients that will make a fluid similar to lava that burst out of the model and slides down along the volcano edges. The experiment is proven to be very successful as it shows what happens when a volcano is activated http://www.sciencekids.co.nz/s ciencefacts/earth/volcano.html
10. Evaluation	The teacher evaluates the engagement of the students during the activity. At the end, each student should list at least 3 things they remembered and one thing they understood from the experiment.
11. Materials / Resources / technical requirements	Baking soda, vinegar, clay (the clay model can be also pre made from either home or a previous lesson), paper, glue, colours

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12. Tips for educators / theoretical background (if applicable) or curriculum context	This lesson can be done when students are focused on topics from the environment. It is a very cheap experiment and it can be shown to students from different ages and levels. It can be used as a cross- curricular activity. It showcases chemical reactions (students can express this in formulas), students can talk about quantities (Math) or can retell what they saw (Macedonian, English)