## Summary

### Augmented reality meets RM

**Target age**
Age 10 and over

**Level of difficulty**
- □ Easy
- □ Medium
- □ High

**Key words:**
Raw materials, augmented reality, minerals, circular economy, mining

**Abstract of the activity:**
The toolkit Augmented reality meets RM provides an interactive introductory lesson about the topic of mining and raw materials. The students learn about mineral raw materials and their importance in our everyday lives and see how mining is done today and in the future. Just like the modern mining activity, our lesson has a digital component and uses modern technology – namely augmented reality. The students only need a smartphone in order to see a mining truck and can visit a modern mine right in the classroom. During the course of the lesson the students will get the chance to reflect on their own impression of mining and what they imagine the mining activities entail. In addition, by using the example of the smartphone, the students get a direct link to how mining is related to the tools we use in our everyday lives and the effects it has on our world.

**Learning Goals (max 250 characters)**
- Become more familiar with the topic of raw materials
- Learn about mining activities
- Learn about the importance of mineral raw materials in our lives
Summary

Specific Abilities - At the end of the activity the student will be able to:

- Talk about mining and its importance for our lives
- Understand the importance of mining for the future
- Relate mining activities to their own life
- Understand which materials are needed to build most of our tools

Cross-curricula Links

- Ecology/Environment
- Biology
- Chemistry: i.e. redox reaction, analytical techniques...
- Geography
- Technology
- Social Sciences: i.e. human conditions, ethics
- Politics

Prerequisites - Knowledge and skills necessary for carrying out the activity

Basic knowledge and understanding of mining and circular economy, which can be found in the section “Background information” of the Toolkit teacher’s card.

Time requirement

50 min

Learning and Teaching Support Materials - What you can find in the toolkit

1. Students’ Card
2. Teachers’ Card
3. PPT presentation – instructional guide with all slides for the lesson
4. Evaluation grids

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