

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:


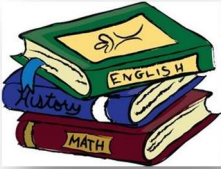




*The toolkit **Augmented reality meets RM** provides an interactive introductory lesson about the topic of mining and raw materials. The students learn about mineral raw materials and their importance in our everyday lives and see how mining is done today and in the future. Just like the modern mining 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

	<p>Specific Abilities - <i>At the end of the activity the student will be able to:</i></p> <ul style="list-style-type: none"> • 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
	<p>Cross-curricula Links</p> <ul style="list-style-type: none"> • Ecology/Environment • Biology • Chemistry: i.e. redox reaction, analytical techniques... • Geography • Technology • Social Sciences: i.e. human conditions, ethics • Politics
	<p>Prerequisites - <i>Knowledge and skills necessary for carrying out the activity</i></p> <p>Basic knowledge and understanding of mining and circular economy, which can be found in the section “Background information” of the Toolkit teacher’s card.</p>
	<p>Time requirement</p> <p>⌘ 50 min</p>
	<p>Learning and Teaching Support Materials - What you can find in the toolkit</p> <ol style="list-style-type: none"> 1. Students’ Card 2. Teachers’ Card 3. PPT presentation – instructional guide with all slides for the lesson 4. Evaluation grids
	<p>Authors</p> <p>Corina Pacher, Montanuniversität Leoben, corina.pacher@unileoben.ac.at</p> <p>Mariaelena Murphy, Montanuniversität Leoben, mariaelena.murphy@unileoben.ac.at</p>