

TOPIC

Importance of water and its conservation

SDGS



LEARNING OUTCOMES

- 3.7.2 I can recognize and discuss the importance of saving water

ADDITIONAL OUTCOMES

- I can name different water habitats in Malta.
- I can think critically about the impact of pollution on fresh and sea water.
- I can describe the importance of clean water for living things
- I can appreciate the work of a local STEM professional: A Policy Officer who works in Water Conservation

MATERIALS NEEDED

<https://www.csm.edu.mt/stemmersion/>

- PowerPoint: stemmersion_y3_s2.pptx
- Video: Policy Officer who works in Water Conservation.mp4
- VR expedition: Water conservation in Malta | STEMMERSION on ExpeditionsPro App
- STEMMERSION_y3_s2_Making a Water Filter_Teacher's Guide.pdf
- VR Headsets
- Dirty water (dirt, old leaves, cooking oil, or tiny pieces of foam or soil with water) (one per group)
- Spoon/group
- Gravel/group
- coffee filter OR filter paper/ group
- Cotton balls per group
- Circular pot base per group
- 2L plastic bottle – cut the top (about 1/3 from the top) / group
- Transparent container(s) to compare filtered water per group

KEY WORDS

fresh water, sea water, contaminated water, water shortage, save/conserves water.

SESSION ACTIVITIES



PowerPoint covering: sources of drinking water in Malta, ground water, rain water, how we save rain water, how we obtain water from the sea and the importance of not polluting our fresh water in valleys and our sea water.



Maltese STEM Professional Video: A Local Policy Officer who works in Water Conservation



VR expedition: Water Conservation in Malta | STEMMERSION on ExpeditionsPro which can be seen through a VR headset



Experiment: The students in groups filter dirty water, by using various filtering materials and filtering the water multiple times. More details can be found in the experiment sheet uploaded

CONCLUSION

A short interactivity showing ways how to save water: [Interactive Whiteboard game for sorting animals into their habitat: https://learningapps.org/view14943147](https://learningapps.org/view14943147)