

H₂Woah



Saving for a rainy day

KLAs: Science, Maths	LESSON TOPIC: Water conservation
YEAR LEVEL: K-10	DURATION OF ACTIVITY: 45 minutes

Australia: the world's second driest continent, yet one of the highest consumers of Earth's most precious resource – water. Future life on Earth relies on us conserving the water we have and planning for the prospect of reduced rainfall. In this activity, we give the power to the students as we explore our understanding of volume and water use, how much water we use in our everyday lives, and how we can reduce our usage to better support our environment. Playing with hundreds of foam blocks of all shapes and sizes to represent the resource, we tap into our inner mathematician to highlight the importance of turning the tap off where we can and making conscious efforts to minimise water waste at home, school and throughout our community.

SYLLABUS LINKS

This activity aligns with and extends concepts and content within the K-6 Science and Technology syllabus, the 7-10 Science syllabus and the K-10 Mathematics syllabus.

The science focus is on working scientifically and relates to the Living World and Earth and Space strands. Students will work mathematically, applying skills in Number and Algebra, Measurement and Geometry, and Statistics and Probability.

LEARNING OUTCOMES

Students will:

- Explore the importance of water and understand the need to adapt and prepare for a future of lower rainfall and less available water
- Explore volume and relate this to their own average water usage, target water usage and the importance of conserving water where possible
- Participate in group activities to discover volumes of water required for different tasks around the house and home

- Collaborate in forming 3D models to investigate opinions and values around water
- Utilise this data as a talking point for how we might improve our water usage into the future

EXPLORATORY AND PLAY-BASED COMPONENTS

Students play with giant foam cubes and base ten foam units to explore water volume, measurement, and the importance of conservation. This activity employs a play based, collaborative learning approach and encourages students to think about individual water use relative to their area, and play with concepts to make informed decisions into the future.

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