

Module 2: Water

Module 2 explores the science of water. This module draws on a range of scientific fields including chemistry, physics, biology and earth science.

The Module 2 Risk Assessment highlights potential risks and their management strategies. Please read the Risk Assessment document before commencing any of the sessions.

Feedback forms have been provided for students, parents/guardians and coordinators to complete at the end of each session. Feedback assists with continued improvement of your club experience and the resources.

Module 2.1: Wonderful Water

In this session students learn that all things are made of matter, and matter exists in three states (solid, liquid and gas). The session explores water's chemical structure and learn that a molecule of water consists of one Oxygen atom and two Hydrogen atoms. Students explore water's properties and investigate cohesion, surface tension and adhesion through experimentation. Students use knowledge gained to take part in a water transport challenge to conclude the session.

Module 2.2: Water Filtration

This session explores the importance of water filtration and water treatment! Students learn about the lack of clean water in many countries in the world and how this has dramatic health impacts. Students explore and test a range of methods for filtering and treating water to remove contaminants. Students use knowledge gained to construct a water purification system in the session's challenge activity.

Module 2.3: Ocean Properties

This session investigates scientific properties of the ocean. Students learn about oceans and seas. Building on knowledge of water properties and fluid dynamics from previous sessions, students explore the science of currents, water density, water temperature and buoyancy. Students gain understanding of why and how ships float, and submarines can sink. Students use knowledge gained to design, build and test a submarine in the session's challenge.

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