

VORTEX CENTRE

GIPPSI AND WATER EDUCATION PROGRAM

Impacts On Water Supply

Program focus

Impacts on Water Supply will focus on events which impact on the water supply in Victoria, including drought, population growth, climate change and El Nino/La Nina. Students will find out how these events affect water supply and how this may affect people and the environment.

Presentation

The presentation in Impacts on Water Supply will give an overview of drought in Victoria and its economic, social and environmental effects. It will also cover the effect of El Nino and La Nina on drought, look at the population growth that has been projected in Victoria and how this will affect the amount of water we have. Climate change will also be discussed and how this may cause lower rainfall and higher evaporation rates.

Activity

In Impacts on Water Supply, students will work in small groups to investigate an event that affects water supply (drought, climate change, population growth, El Nino/La Nina). Students will take on various roles in their group (presenter, statistician, environmental consultant, and economist) to prepare a report on how their event affects water supply, and how this affects people and the environment.

VELS links

VELS levels	Strand	Domain	Dimension
4-5	Discipline-based learning	Science	• Science knowledge and understanding
	Interdisciplinary learning	Humanities - Economics	• Economic knowledge and understanding
		Humanities - Geography	• Economic reasoning and interpretation
		Communication	• Geographical knowledge and understanding
			• Presenting



This program includes:

- Introductory welcome presentation (5 minutes)
- Opening video (10 minutes)
- Vortex interactive walkthrough (30 minutes)
- Impacts On Water Supply presentation (15 minutes)
- Impacts On Water Supply activity (30 minutes)

*Times are approximate only and can be tailored to meet your school's objectives and needs.

About the Vortex Centre

The Vortex Walkthrough

The Vortex Centre is Gippsland Water's new water educational resource located at the world-first Gippsland Water Factory in Maryvale, Victoria.

The Vortex Centre provides a multimedia experience for students to learn about water usage and management in the Gippsland region, the water cycle and water sustainability.

The state-of-the-art 'green' facility features interactive displays, touch-screens and videos, with a focus on efficient use of water and sustainable water management; highlighting water as a precious resource at a local, state, national and global level.

Students will also learn about the treatment process happening at the Gippsland Water Factory and how recycled water is produced. This will include a behind-the-scenes look at the operational centre of the wastewater treatment plant.

The Vortex Centre is a sustainable building that sits on a lake of recycled water, which is pumped through the floor to provide cooling. It is also heated sustainably through waste energy and contains a variable membrane that saves electricity by controlling the level of light.

Vortex Centre education programs and the school curriculum

The different presentations and activities provided by Gippsland Water run across various VELS levels, domains and dimensions and can be tailored to fit the needs of students and the school curriculum.

For VCE students, information can be provided which is tailored to the needs of specific projects. Experts on wastewater treatment can also be provided to discuss various processes.



Admission to the Vortex Centre is free for those within Gippsland Water's service area.

School tours are available on Tuesday, Wednesdays and Thursdays between the hours of 9:30am and 3:00pm only.

To book a tour, please contact Gippsland Water's Communications team on 1800 066 401 or visit www.gippswater.com.au to download a Vortex Centre Tour Information Pack.

Please note: All bookings must be made at least two weeks in advance of the tour date.

Did you know?

A vortex is a whirling motion, like a whirlpool, whirlwind or water going down the drain. This motion was the inspiration behind the architecture of the Vortex Centre and is captured in the building's name.

The Vortex Centre is made up of seven barrels that appear to be floating on water and fit into one another, decreasing in size giving the appearance of a 'vortex'.

