

Future Water Story

Teacher Guide: Year 7/8

This *Teacher Guide* includes a series of lessons for you to use in your classroom; it outlines key content and concepts that will enhance your student's learning experience.

Introduction

Students participating in the *Future Water Story* at the Western Treatment Plant, will explore the theme: **How do we make the use of water in Melbourne sustainable?**

Learning outcomes

- Explain the different methods to overcoming water scarcity; both by reducing demand for water and increasing the supply of water through alternate water sources
- Know that water is a scarce resource, and it needs to be managed to ensure water security
- Know that the liveability of Melbourne depends on a safe and secure supply of water; as well as treatment of wastewater
- Understand that Melbourne's water security will be impacted by climate change

Instructions

1. Select the resources you want to use.
2. Download the resources – teaching instructions and tips are included in each presentation, see the notes on each slide.

To help you plan, all our resources are editable. You can decide which ones to use and that best suit your students' needs and learning requirements.

Pre-visit	1: Introduction Lesson + introducing the challenge & teams!	<ul style="list-style-type: none">• Prepare your students for their visit to the WTP. The introduction includes key content and terms to help students participate in the Future Water Story.• Watch the video and learn all about the challenge your students will manage; and the different teams that students will be allocated.
	GIS map Lesson * (optional)	Navigate a GIS map of Melbourne and learn about the sewerage and water supply network.
During your visit	Systems & Innovation Tour Worksheet * (optional)	<ul style="list-style-type: none">• Students collate the information they gather and learn when travelling around the site• Download the worksheet/s and get your students to bring it on the day of your visit
Post visit	2: Concluding Lesson	<ul style="list-style-type: none">• Review and reflect on the Future Water Story experience• Communicate the strategies and actions required to make the use of water in Melbourne sustainable with reference to environmental, economic and social factors.
Extra resources	Glossary of terms	A list of key words for your students to know and that will assist them to learn about water and participate in the Future Water Story.



Victorian Curriculum version 2.0

The Future Water Story is aligned to the Victorian Curriculum. Details about what is covered in each section is outlined in the table below.

- PRE-VISIT INTRODUCTION LESSON
- CIRCULAR CITIES DIGITAL CHALLENGE
- SYSTEMS & INNOVATION TOUR
- POST-VISIT CONCLUDING LESSON

Geographical Knowledge and Understanding	VC2HG8K01		●		●
	VC2HG8K02		●		
	VC2HG8K03	●	●	●	●
	VC2HG8K04	●	●	●	●
	VC2HG8K05		●		
	VC2HG8K06		●	●	●
Geographical Concepts and Skills	VC2HG8S01	●			
	VC2HG8S02			●	
	VC2HG8S03	●			
	VC2HG8S04	●	●		●
	VC2HG8S05		●		
	VC2HG8S06				●
	VC2HG8S07				●
Science understanding	VC2S8U09		●	●	●
	VC2S8H02		●		
	VC2S8H03	●	●		
Critical and Creative Thinking	VC2CC8Q02		●		
	VC2CC8R01		●		●
	VC2CC8R02		●		
	VC2CC8R04		●		●
	VC2CC8M03		●		
Personal and Social Capability	VC2CP8O01		●		
	VC2CP8O04		●		
	VC2CP8O05		●		
Ethical Capability	VC2CE8U02		●		
	VC2CE8D01		●		