

Future Water Story

Teacher Guide: Year 9&10

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 human-induced environmental changes impact water in Melbourne and what management strategies are required – for sustainability and human wellbeing.**

Learning outcomes

- Describe the connection between weather and climate and water
- Outline the causes and consequences of water scarcity and how it impacts sustainability
- Explain the different approaches and knowledge used to address the management of water scarcity, to ensure water security and a more sustainable future
- Describe how human-induced climate change will impact resource supply and consumption (water)
- Outline how people's environmental worldviews can lead to different interpretations of human wellbeing and how this impacts decisions around sustainability and water use

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.

	1: Introduction Lesson	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.
Pre-visit	Future Water Story – introducing the challenge & teams!	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 manage environmental change and make water use sustainable.
Extra resources	Future Water Story Glossary	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	VC2HG10K10	●	●	●	●
	VC2HG10K11	●	●		●
	VC2HG10K13	●	●		●
	VC2HG10K14	●	●	●	●
	VC2HG10K15		●		
	VC2HG10K16		●		●
Geographical Concepts and Skills	VC2HG10S02	●		●	
	VC2HG10S03			●	
	VC2HG10S04	●			
	VC2HG10S05	●			●
	VC2HG10S06		●		●
	VC2HG10S07				●
History	VC2HH10K11		●		
	VC2HH10K36		●	●	
	VC2HH10S05	●	●		●
Science understanding	VC2S10H02	●	●	●	●
	VC2S10H03	●	●		●
	VC2S10H04	●	●		●
	VC2S10U11	●	●		●
Civics and Citizenship	VC2HC10K09		●		
	VC2HC10K10		●		●
	VC2HC10S02		●		
Economics and Business	VC2HE10S03		●		
	VC2HE10S04		●		
	VC2HE10S05		●		
Critical and Creative Thinking	VC2CC10Q02		●		
	VC2CC10R01		●		
	VC2CC10R02		●		●
	VC2CC10R03		●		
	VC2CC10R04		●		●
	VC2CC10M02		●		●
Personal and Social Capability	VC2CP10O01	●	●		●
	VC2CP10O04	●	●		
	VC2CP10O05		●		
Ethical Capability	VC2CE10U02				●
	VC2CE10D01		●		
	VC2CE10D02		●		●
Intercultural Capability	VC2CI10D02	●	●		●