

Lesson Plan (Y7-Y9)

Lesson:

Age Group (Grades): 7-9

Lesson duration: 30-45 minutes

Aim: Students understand the dynamic nature of hazards at Sunwater infrastructure and can interpret warnings to enjoy assets safely.

Links with Curriculum (Codes):

ACSSU189	ACHASSK184	ACHGK048	ACHGK070
ACPPS078	ACHASSK185	ACHGK051	ACOKFH024
ACPPS097	ACHASSK186	ACHGK052	ACDSEH125
ACHASSK183	ACHASSK190	ACHGK063	

Key Vocabulary:

Asset Weir	Water channel Warnings	Water security Catchments
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Content

Resources

Focus Questions:

- What is the purpose of Sunwater's water assets?
- What is the difference between a dam, weir or water channel?
- What could be some dangers about visiting a dam, weir or water channel?
- What are some of the different hazards associated with visiting water infrastructure compared to natural water bodies?
- What can you do to stay safe around dams, weirs and water channels?
- What are some of the warnings to look out for when using water infrastructure?
- Why is it important that safety be taken seriously when visiting Sunwater's assets?

- PowerPoint Presentation
- Activity plans
- Activity resources

Activity Options

Celebrity Heads

In groups or pairs, students will be assigned the identity of a hazard and their partner or group mates take it in turns to ask up to 20 yes or no questions to guess what the hazard is. Students will be given a hazard identity card which will detail some facts about the hazard, and the educator can provide prompting questions to their teammates.

Stuck in the mud

Students are assigned three roles: stationary hazards, moving hazards, and dam visitors. This game is played outside on a field, basketball court or similar. The aim is for the dam visitors to cross to the other

side of the 'dam' (court or field) safely (without encountering any hazards), and for the students playing the role of the hazards to make this very difficult for the dam visitors.

What's the infrastructure?

Students will be shown different examples of Sunwater infrastructure, and natural watercourses (at increasing levels of difficulty) and the educator will call for responses from the students. Students can vote with auction style paddles with a discussion around why they voted the way they did to follow.

Invisible hazards

A series of small 'experiments' to reveal different kinds of hidden hazards (chemical, microbiological).

Evaluation

- Can students identify each of the three key types of Sunwater infrastructure?
- Can students explain the purpose of each of Sunwater's assets?
- Can students explain multiple hazards associated with dams, weirs, and channels?
- Can students correctly identify the meaning of key signage?
- Can students outline actions they can take to stay safe?
- Can students identify multiple warnings (aside from signage) that may indicate danger? (i.e. weather conditions, murky water, discoloured water, speed of water movement etc.)
- Can students articulate the importance of taking safety seriously around water assets?

Additional resources

How Dams Work	https://www.sunwater.com.au/wp-content/uploads/Home/Community/Preparing-for-weather-events/Understand%20your%20catchment/How%20Sunwater%20dams%20work.pdf
Preparing for weather events checklist	https://www.sunwater.com.au/wp-content/uploads/Home/Community/Preparing-for-weather-events/Be-prepared/Preparing%20for%20weather%20events%20checklist.pdf
Sunwater Assets	https://www.sunwater.com.au/community/sunwater-assets/
Videos	https://www.youtube.com/@SunwaterLimited/videos