

Lesson Plan (Y4-Y6)

Lesson:

Age Group (Grades): 4-6

Lesson duration: 30-45 minutes

Aim: Students understand the hazards and dangers of engaging with Sunwater infrastructure and can recognise various warnings at their sites.

Links with Curriculum (Codes):

ACSSU075	ACPPS018	ACHASSK090	ACELY1694
ACSSU073	ACPPS023	ACHASSK091	ACAVAM108
ACSSU094	ACPPS041	ACHASSK088	ACELY1692

Key Vocabulary:

Infrastructure Hazard	Risk Warning	Danger Signage
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Content

Resources

Focus Questions:

- Why do we have dams, weirs and water channels?
- What is the difference between a dam, weir and water channel?
- How are dams, weirs and water channels different to natural waterbodies?
- What could be some dangers about visiting a dam, weir or water channel?
- 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?

- PowerPoint Presentation
- Activity plans
- Activity Resources

Activity Options

Guess the Risk

The presenter, teacher or students select a card with a hazard written on the front. Without looking at the card they place it on their head and have to ask the class yes or no questions to correctly guess the hazard that they are.

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

A pixelated image of a dam, weir or water channel will slowly be made clear to students along with clues about what type of infrastructure the image is depicting. This will be scaled for the age group by using a mixture of obvious and obscure images and clues.

Play Safe

A board game based on the premise of snakes and ladders. Hazards and safe choices will be scattered across the board to advantage and disadvantage players. The aim is get across the board or by getting safely to the end of the day at the dam.

Invisible Hazards

Students will be provided with activity sheets for them to design their own dam, including hazards and potential dangers either as individuals or in groups. The students will then cut a slit into the paper and draw a picture of a seemingly harmless dam on top. The paper can then slide to reveal the hidden dangers underneath as the student presents their dam and hazards to the class.

Evaluation

- Can students explain the differences between different types of water infrastructure?
- Can students explain why we need dams, weirs and channels?
- Can students explain at least one danger associated with visiting each type of water infrastructure?
- Can students correctly identify the meaning of key signage?
- Can students outline actions they can take to stay safe?
- Can students identify at least one warning (aside from signage) that may indicate danger? (i.e. weather conditions, murky water, discoloured water, speed of water movement etc.)

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