

Invisible Hazards (Y7-Y9)

Lesson: Invisible Hazards (Y7-Y9)

Age Group (Grades): 7-9

Lesson duration: Approx.20 mins

Aim: Students understand the types of risks associated with 'invisible hazards' in different water bodies and are able to make safe decisions.

Notes

This activity is to expand the student's understanding of 'invisible hazards'. This activity includes student-led discussion on activities that can lead to a hazard and how to avoid them or be safe around them.

Instructions

1. The presenter will provide a series of small 'experiments' that reveal different kind of hazards. These will not be real hazards but will mimic some types of chemical and microbiological hazards that may be found in Sunwater's infrastructure.
2. Students will be provided with material needed such as a container with clean water, oil, vinegar, residual water, etc.
3. Student will start mixing the clean water with the different hazards (separate samples) and discuss the difference in the water, whether if they can notice any changes in the water or not.
4. If science equipment is available at the school, students may also examine samples under a microscope.
5. Students will then present their findings to the class. With facilitation from the presenter the class will discuss how invisible some hazards are and how to avoid them.

Resources

- Water
- Oil
- Vinegar
- Any additional 'hazards'
- Container
- Microscope (optional)