

## Lesson 1

Years	Duration
5-8	1.5 hours +

# Water quality

Class-based lesson and field trip

## Your students will learn about :

- The water cycle
- How streams become polluted
- How to identify freshwater bugs

Students will also take water samples from their local waterways and learn how to test turbidity, pH and nitrate levels. They will also learn to identify the bugs living there. Once they return to the classroom, they can examine their samples and their observations of bugs to make an assessment on the quality of the water in their local waterway.

## Book the lesson

To register interest please email [sarah.slater@water.co.nz](mailto:sarah.slater@water.co.nz)

For more information visit ...  
[waterforlife.org.nz/water\\_education\\_lessons](http://waterforlife.org.nz/water_education_lessons)

## Before the field trip :

You will need to ...

- Identify a freshwater stream, creek or storm-water pond within walking distance of your school
- Recruit adult helpers to accompany children to the waterways
- Carry out a risk management assessment.

## What you will need to provide for the lesson :

- Laptop and data projector to show a PowerPoint presentation
- Whiteboard and marker pens
- Scoops to collect water (we can help you design a scoop)

## NZ Curriculum

See how this lesson relates to the curriculum [on this page.](#)



This is a guided activity with Watercare's own education co-ordinator Sarah Slater.

For further resources about protecting our most precious resource go to

[waterforlife.org.nz](http://waterforlife.org.nz)

**WATER  
FOR LIFE**