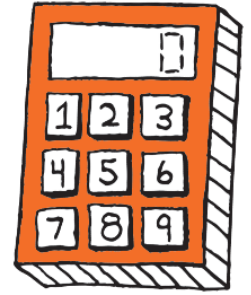


Use Secondary Maths to Measure Waste

Course Brochure



What's it about?

Take your Maths teaching to new heights through student-led school waste audits. You will learn how to teach meaningful and real-life Maths lessons that measure, collect and represent your school's landfill, recycling and litter data. Enjoy a range of course activities, hear the stories of other schools and download a library of Year 7-8 Maths lesson plans.

What will I learn?

- How to measure, collect and represent waste data using Maths audits.
- How to identify different waste and litter areas in your school.
- How to foster innovation in your classroom and extend student learning.
- How to use Cool Australia's teaching resources.

How long does it go for?

This course will take you 2 hours to complete.

Enjoy it in one session or spread it out over a few weeks. You will have ongoing access.

How does it work?

This course is on-demand and for private study.

Learn at your own pace and at times that suit you.

What are the course modules?

- | | |
|---------------------------|--|
| 1. Introduction | Get started with your online professional development. |
| 2. Landfill and Recycling | Learn how to measure landfill and recycling waste. |
| 3. Litter | Identify the best way to audit your school's litter. |
| 4. Take Action | Find out how to extend your students' learning. |
| 5. Reflection | Reflect on your course learning. |

What are the curriculum links?



Year 7 Mathematics:

- Calculate volumes of rectangular prisms (ACMMG160)
- Identify and investigate issues involving numerical data collected from primary and secondary sources (ACMSP169)
- Construct and compare a range of data displays including stem-and-leaf plots and dot plots (ACMSP170)

Year 8 Mathematics:

- Choose appropriate units of measurement for area and volume and convert from one unit to another (ACMMG195)
- Develop formulas for volumes of rectangular and triangular prisms and prisms in general. Use formulas to solve problems involving volume (ACMMG198)
- Investigate techniques for collecting data, including census, sampling and observation (ACMSP284)

Cross curriculum priorities: Sustainability

General capabilities: Numeracy, Critical and Creative Thinking

Is it accredited for PD hours?

This course is mapped to the Australian Professional Standards for Teachers. It is accredited for professional development hours in:

Graduate Teacher – all states and territories

2.5.1 Know and understand literacy and numeracy teaching strategies and their application in teaching areas.

3.3.1 Include a range of teaching strategies.

3.4.1 Demonstrate knowledge of a range of resources, including ICT, that engage students in their learning.

Proficient Teacher – all states and territories

2.5.2 Apply knowledge and understanding of effective teaching strategies to support students' literacy and numeracy achievement

3.3.3 Plan and implement well-structured learning and teaching programs or lesson sequences that engage students and promote learning

3.4.2 Select and/or create and use a range of resources, including ICT, to engage students in their learning

Highly Accomplished Teacher – all states and territories except for NSW

2.5.3 Support colleagues to implement effective teaching strategies to improve students' literacy and numeracy achievement

3.3.3 Support colleagues to select and apply effective teaching strategies to develop knowledge, skills, problem solving and Critical and Creative Thinking

3.4.3 Assist colleagues to create, select and use a wide range of resources, including ICT, to engage students in their learning.



Cool Australia is endorsed to provide the NSW Education Standards Authority (NESA) Registered Professional Development for teachers accredited at Proficient Teacher.



This course is accredited by TQI for 2 hours professional development for teachers in the ACT.