

# Activity M1

## What's the flow?



S.T.E.A.M is an abbreviation for Science Technology Engineering Art and Maths and is an integrated approach to learning that encourages learners to make connections between concepts and thinking which can be applied to solving real world problems.

Whether you are new to STEAM or not, these easy to manage projects all about water will encourage critical thinking skills and scientific processes all while having lots of fun along the way.

### Background Information

It is easy to forget how lucky we are to live in Cairns, with so many beautiful creeks, rivers, waterfalls and beaches right on our doorstep . Being surrounded by all that water, sometimes we to forget how precious water is! 60 seconds might not sound like much but this activity is all about calculating how much water different water appliances use in that minute and asks you to consider the difference a minute can make, over a day, a week and a year!

### For this activity you will need:

- Bucket
- Timer
- Access to handbasin tap, shower, hose, outdoor tap and other water appliances

### Explore more...

Calculate how much water you could **save a year**, by shortening your shower by 1 minute a day, and by turning off the tap when you brush your teeth!

Perhaps you might like to share some water saving tips on social media encouraging others to be smarter with our water. Don't forget to #smarterwithourwater

There are many online water use calculators that you can use to find out more ways to save water at home.

**Did you know?** If the valve that releases water from Copperlode Dam was open full it would be so powerful it could drill holes into rock. That's why water is released in a cone shape to control flow and evenly spray water, which gently flows down to Crystal Cascades and Freshwater Creek.

**REMEMBER** Approximately 20% of Cairns drinking water is used in the shower. Do you shower in 4 minutes or less?

**Short showers save water!**