

## Curriculum Links

### Level 7

- Round decimals to a specified number of decimal places (VCMNA246)
- Introduce the concept of variables as a way of representing numbers using letters (VCMNA251)
- Create algebraic expressions and evaluate them by substituting a given value for each variable (VCMNA252)

### Level 8

- Investigate the relationship between features of circles such as circumference, area, radius and diameter. Use formulas to solve problems involving determining radius, diameter, circumference and area from each other (VCMMG288)

## Learning Intention and Success Criteria

### Learning Intention

To investigate the relationship between the length of diameter and the length of the circumference of a circle.

### Success Criteria

- ✓ Identify the circumference and diameter of a circle.
- ✓ Accurately measure the circumference and diameter of a circle.
- ✓ Calculate the ratio circumference to diameter for multiple circles.
- ✓ Attempt to approximate a rule for using diameter to calculate circumference.

## Equipment Required

- Ruler
- Piece of string, ribbon, shoelace or cotton
- Loose piece of paper
- Calculator (non-scientific is sufficient)

## Career Pathways

Understanding and being able to apply formulae is a vital skill for everyone. These skills are still very valuable for students to learn and develop.

Jobs ranging from scientists and mathematicians to builders and architects require the ability to use formulae on a daily basis.