

# Look Kool – Measurement

**ABC ME screening details:** Monday 18 May, 2020 at 11:20am

This episode can also be viewed on [ABC iView](#) (select Series 2 from the drop-down menu)

**Key learning areas:** Mathematics

**Level:** Levels 3-5

**About:** Hamza wants to measure everything about Koolkatt that has changed since he was a teeny-weeny little robot-kitten - but how? Hamza finds out there are a lot of different ways to measure the world around us.

## Before the episode

1. Did you know that, for most people, their **arm span** is about equal to their **height**? How do you think your arm span compares with your height? Use a measuring tape or a ruler to find out. Write and draw what you found.






## During the episode

1. Make a list of all the measuring tools you have used at home and at school.

## After the episode

1. Measure yourself! Print the table below or divide a sheet of paper into four boxes.

| Measuring Me  |  |
|---|--|
| <p><b>HEIGHT (Length)</b></p> <p>How tall are you? Measure yourself using a tape measure or a ruler and record your height in metres and centimetres.</p>                               | <p><b>WEIGHT (Mass)</b></p> <p>How much do you weigh? Measure your mass using bathroom scales and record it in kilograms.</p>    |
| <p><b>AGE (Time)</b></p> <p>Calculate and record your age in:</p> <ul style="list-style-type: none"><li>• years and months</li><li>• days</li><li>• hours</li><li>• minutes</li></ul>  | <p><b>You choose...</b></p> <p>Use a stopwatch to measure your <b>speed</b>. How long does it take you to run 100m?</p> <p>Use a <b>thermometer</b> to measure your body temperature.</p> <p>Measure your <b>heart rate</b> by checking your pulse.</p> <p>Measure the length and width of your foot. What is your <b>shoe size</b>?</p> |

**Follow-up activity:** Mathematicians say the human arm span to height **ratio** is 1:1. Explore other body ratios. For example, how tall are your legs in comparison to your height? How many times would your head circumference fit into your height?

# Teacher notes

This resource contains self-directed learning activities that students can complete while learning at home or in the classroom. The activities align with the Victorian Curriculum F-10 and can be modified to meet the needs of your students. Teachers could collect student work for feedback and assessment.

## Learning intentions

- To use a range of measuring tools to measure objects.
- To record measurements using appropriate units.

## Victorian Curriculum content descriptions

|                            | Level 3  | Level 4   | Level 5  |
|----------------------------|--|---|--|
| Using units of measurement | Measure, order and compare objects using familiar metric units of length, area, mass and capacity ( <a href="#">VCMMG140</a> ) | Use scaled instruments to measure and compare lengths, masses, capacities and temperatures ( <a href="#">VCMMG165</a> ) | Choose appropriate units of measurement for length, area, volume, capacity and mass ( <a href="#">VCMMG195</a> ) |

## Victorian Curriculum achievement standards

|                          | Level 3  | Level 4   | Level 5  |
|--------------------------|--|---|--|
| Measurement and Geometry | Students use metric units for length, area, mass and capacity. | Students use scaled instruments to measure length, angle, area, mass, capacity and temperature of shapes and objects. They convert between units of time. | Students use appropriate units of measurement for length, area, volume, capacity and mass. |

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