
# Bike Safety Maths Link

Here is an activity that can integrate bike safety with maths. It looks at helmets and protective equipment as well as middle primary measurement and number concepts.

| | | | |
|---|---|---|---|
| English | Maths | Science | Health and PE |
| HASS | Technologies | The Arts | |

**How big is my head?**

- Discuss with students that a helmet is essential when riding as it protects your brain. Your helmet must fit your head properly; if is not the right size and is not fitted correctly it will not protect your head correctly. You can demonstrate this on a student head with their own bicycle helmet, or even with your own helmet on your head. Put the helmet on and leave the straps unclipped or loose. Show that the helmet can move about freely while the helmet is not fitted properly. Helmets must be the correct size and fitted correctly, which the following activities will address.
- Ask students to measure their own head using a piece of string and a ruler or a measuring tape. They should measure around their head from approximately 2 finger widths above their eyebrow. They can record this in their books or on the 'How big is my head' worksheet.
- They can complete the worksheet and compare the size with others and 'buy' other protective equipment.

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- Students can also research what size bike helmet they need from a real bike shop, by finding a sizing chart online or looking in a shop as an ‘at-home’ task.

**Curriculum Links**

- **Year 3 Measurement and Geometry**: Measure, order and compare objects using familiar metric units of length, mass and capacity (ACMMG061)
- **Year 4 Measurement and Geometry**: Use scaled instruments to measure and compare lengths, masses, capacities and temperatures (ACMMG084)
- **Year 3 Being healthy, safe and active:** actions in daily routines that promote health, safety and wellbeing (ACPPS018).
- **Year 4 Being healthy, safe and active:** Strategies to ensure safety and wellbeing at home and at school (ACPPS036)

Name:

# How big is my head?

Place 2 fingers above your eyebrow. From there, use a piece of string or a measuring tape to measure your head all the way around.

My head is ☐ cm around.

Record the head size of two of your classmates below

| Name | Head size (cm) |
|---|---|
| | |
| | |

The person with the biggest head is _____

The person with the smallest head is _____

Below is a pretend helmet fitting table (in cm) for Chip's bike store.

| | XS | S | M | L | XL |
|---|---|---|---|---|---|
| Size (cm) | 46-48 | 48-50 | 50-54 | 54-59 | 59-65 |
| Price ($) | 20 | 22 | 24 | 26 | 28 |

If you were to buy a helmet from this store which size would you need? _____

How much would it cost? _____

This bike shop also sells extra bike safety gear. Choose one other item you would like to buy to keep you safe.

I chose _____ it costs _____

How much will it cost you for your helmet and this item? Show your working in the box below.

| Item | Cost ($) |
|---|---|
| Bright vest | 12 |
| Sneakers | 45 |
| Knee pads | 20 |
| Drink bottle | 8 |