

# Questacon at HOME

## Year 5 Activity Sheet

# Physical Properties

### ACTIVITY TIME – Describing Physical Properties

To begin this section, complete the following: Describe an aeroplane to someone that had never seen one before.

#### Q1. What is the length of an object?

- The distance of something from end to end.
- The distance of something from side to side.
- The distance of an object from its bottom to its top.
- Half the distance of an object from its bottom to its top.

#### Q2. What is the height of an object?

- The distance of something from end to end.
- The distance of something from side to side.
- The distance of an object from its bottom to its top.
- Half the distance of an object from its bottom to its top.

#### Q3. What is the width of an object?

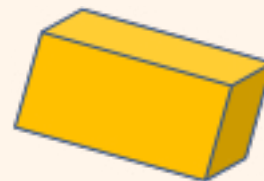
- The distance of something from end to end.
- The distance of something from side to side.
- The distance of an object from its bottom to its top.
- Half the distance of an object from its bottom to its top.



## Year 5 Activity Sheet

### ACTIVITY TIME – Measuring Physical Properties

Grab a ruler or a measuring tape, a blank piece of paper and find an object shaped like a rectangular prism! (Think: a tissue box or shoe box)



We can now use a ruler and what we know about physical properties to find out its **volume**! Volume is the amount of space taken up by something. To find out the volume of your object measure the **length**, **width** and **height** of your object. Now, **multiply** your measurements together. You now have the volume of your object. (Use a calculator for this part if you need too!)

For example, if my tissue box had the following properties:

Length = 15cm

Width = 5cm

Height = 5cm

Then, the volume would be:  $15\text{cm} \times 5\text{cm} \times 5\text{cm} = 375$ . Because your object was 3 dimensional, we say the volume of the tissue box is **375 cm cubed**!

Now **DRAW** your object on your blank piece of paper.

**Can you think of any other physical properties that you can measure about your object? (Hint: try putting your object on a measuring scale!)**



## Physical Properties – Answers

### ACTIVITY TIME – Describing Physical Properties

To begin this section, complete the following: Describe an aeroplane to someone that had never seen one before.

What describing words did you use? You probably used words such as large, long, metal and heavy. By doing this you have just described the **physical properties** of an aeroplane. We can do the same for everything around us, whether it is an aeroplane, a grain of sand or all the air around the Earth. These things are made of matter. To be classified as **matter** something needs to have **weight** and **take up space**, no matter how big or small.

#### Q1. What is the length of an object?

The distance of something from end to end.

#### Q2. What is the height of an object?

The distance of an object from its bottom to its top.

#### Q3. What is the width of an object?

The distance of something from side to side.

