

# 15.1 IDENTIFY THE SAMPLES

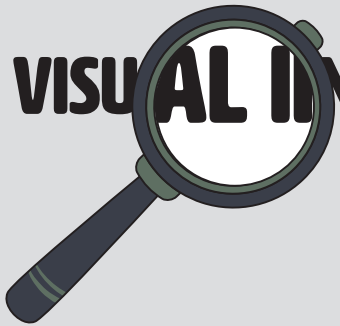
One of these rocks is a meteorite and one of these rocks is an Earth rock similar to ones we find on the Moon. Can you conduct the following tests to work out what each rock is?

## TEST FOR MAGNETISM



Use the magnaprobe and see if the mini magnet gets attracted to the sample.

## VISUAL INSPECTION



Use the hand lens to look closely at the surface of each sample.

Can you see a fusion crust?

Can you see any chondrules?

Does it look like it contains metal?

Does it look like melted or bubble glass?

## FINDING THE DENSITY

The equation to find the density of an object is:

$$\text{density} = \frac{\text{mass}}{\text{volume}}$$

To find the volume of your rocks (*since we are NOT allowed to drop the rocks in the water!*) we need to make a replica of the rock out of plasticine. Half your group model, and find the volume of one of the samples, and the other half will model, and find the volume of the other sample. You will then work out an average volume for each sample and record these in your work sheets.

**YOU WILL NEED TO CAREFULLY SELECT THE CORRECT MEASURING CYLINDER TO GIVE YOU ACCURATE RESULTS.**

Once you have performed your measurements, use the space rocks samples fact sheet to help you identify the objects.

**! MAKE SURE YOU DRY YOUR HANDS THOROUGHLY BEFORE YOU HANDLE THE SAMPLES !**