



THE POWER OF WATER

Go with the flow

Name: _____

In this experiment, you will be recording how far a small object can be moved using just the power of water.

You will need:

- A small object (e.g. a small stone, an eraser, a plastic toy). The object should not absorb water and should be heavy enough that it will not float easily.
- A trough or plastic tub
- Masking tape
- Permanent marker
- A measuring jug or bucket
- Water
- Ruler
- Recording table (on page 2)

What to do:

1. Use the masking tape to make a line in the plastic tub or trough. This will be the starting point for your light object each time.
2. Using the permanent marker, write START on the masking tape.
3. Place your object on the masking tape.
4. Put the required amount of water in your jug or bucket (the quantities are on the recording sheet).
5. Pour the water into the trough or tub. This should be done quickly and from behind the object.
6. Watch how far the water moves the object.
7. Put a piece of masking tape where the object stops.
8. On this piece of tape write how much water was used (e.g. if it is the first turn, then '1 cup' would be written on the tape).
9. Repeat steps 3 to 8 for each of the quantities listed in the table.
10. Once you have done each one, use the ruler to measure the distance from the starting line to each piece of masking tape and record the distance in the table.
11. Make sure you are water smart and reuse as much water as you can.

When you are finished, you could experiment with objects of varying weights. Use the same quantity of water each time and see how far different objects move. There are also two blank lines in the recording sheet for you to choose quantities of water.



THE POWER OF WATER

Object to be moved: _____	
Quantity of water	How far the object moved
1 cup	
500 ml	
1 litre	
2 litres	