

## Transcript of video

This video is available for viewing at: [www.qsa.qld.edu.au/18074.html](http://www.qsa.qld.edu.au/18074.html)

### **Investigation 1: Modelling how fluids move** (0.00)

A fluid is a substance that can flow, such as water (a liquid) and air (a gas).

### **Investigate** (0.10)

How can we model how one-way fluids (water and air) move in nature?

### **Materials** (0.15)

- transparent container
- dropper
- 2 cups
- 700 mL room temperature (tap water)
- 200 mL hot water
- 2 mL tap water (coloured red)
- ice cube frozen with paperclip (coloured blue)

*(Follow your teacher's safety instructions and the steps below to set up a model in your group.)*

### **Procedure** (0.43)

1. Fill the transparent container with tap water. Keep the container and water still until there is no movement.
2. Carefully fill one cup with hot water and the other cup with tap water.
3. Place the cups next to each other.
4. Slowly lift the plastic container onto the cups, keeping the water as still as possible.
5. Carefully hang the paperclip with ice over the edge of the container above the room temperature cup.
6. Use a dropper to gently squeeze the red water onto the bottom of the container above the hot water cup.

### **Observe** (3.07)

At eye level, observe the movement of the blue and red water for 2–3 minutes.