

## **Rocket Poppers**

### **You will need**

1. Film canister
2. Dissolvable vitamin C tablets
3. Water
4. A large bowl or container (to prevent mess)
5. A stopwatch

### **What to do**

1. Fill a film canister half way with water and drop one vitamin C tablet in
2. Place the lid on (not firmly) and place the canister upside down in the bowl pressing start on the stopwatch as you do
3. Wait for the canister to pop upwards and stop the timer when this happens
4. Discuss the results as a group, deciding on different ways to make the canister pop higher or speed up the pop such as water temperature, number of tablets used, or tightness of the lid being replaced

### **How does it work?**

When the vitamin C tablet and the water are combined, the vitamin C starts to break down and releases gas. This is then filling up inside the sealed film canister, increasing the air pressure until the pressure inside the canister is higher than the air pressure outside which forces the canister to pop open and be propelled into the air.

This experiment helps to explain **the force of air pressure** through practical demonstration.

***Remember to always wear your safety glasses!***

