

## **FILM CANISTER ROCKET**

### **What you need**

Film canister  
Bi-carb of Soda – 5ml (1 flat teaspoon)  
Vinegar – 5 ml (1 flat teaspoon)  
Food colour  
Teaspoon  
Eye protection  
Tray to catch residue

### **What you do**

#### **READ ALL THE INSTRUCTION BEFORE STARTING!!**

Practise taking the lid on and off the film canister.  
Put on your eye protection.

Pour 5ml of vinegar into the main part of the film canister.  
Add one or two drops of food colouring to the vinegar.  
Use the popstick/teaspoon to fill the lid of the film canister with bi-carb of soda.

Now is when that practice comes in handy!

Put the lid of the film canister back onto the main part of the film canister  
**AND QUICKLY**  
Place the newly joined film canister down on its lid on the ground  
**AND STAND BACK!!**

### **What should happen**

The film canister should blow apart and the main piece launch like a rocket into the air.

### **Why this happens**

Check what's left behind in the lid; it should be bubbling.  
So, if it's bubbling what was made in the film canister?  
If something new was made in the film canister what happened to the pressure inside?

### **Investigations from this experiment**

What is the best type of vinegar to make a film canister rocket go highest?  
What is the best powder to make a film canister rocket go highest?  
What is the best amount of vinegar to make a film canister rocket go highest?  
What is the best amount of powder to make a film canister rocket go highest?  
What is the best type of film canister rocket to make a film canister go highest?