



## Look Up! - Activity 3 - Be a Courageous Explorer

Can you launch your own rocket?

**What you need:**

Small plastic bottle, vinegar, baking soda, cork (you could use playdoh or some other plugging device) and tissue paper.

**Method:**

- First, build a launch pad (I used lego).
- Pour an inch of vinegar into a bottle.
- Next, put a teaspoon of baking soda into the centre of a tissue square and fold it up (this will create a time-release packet).
- Then drop the baking soda packet into the bottle, put on the cork securely.
- Finally, place the bottle cork side down and observe.

**Challenge** - make a prediction. What do you think will happen and why? Try different amounts of baking soda and vinegar and see if it affects how far the rocket launches.

How does it work?

When **baking soda and vinegar** are mixed together, the reaction produces water and carbon dioxide gas. With the cork stopping the gas from escaping, the force of the gas pushes the cork out making the bottle fly!

**WARNING:** This must be done **outside** and overseen by an **adult**.

