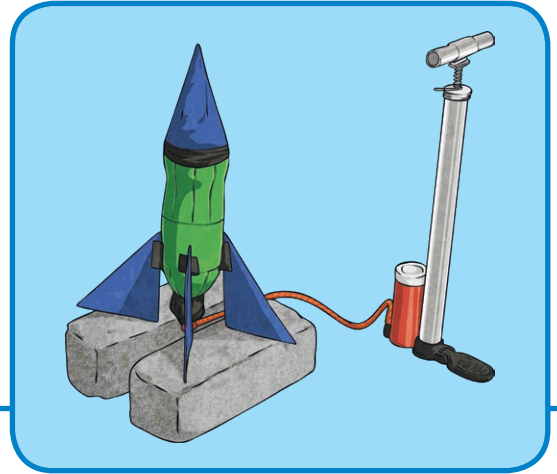


Make an Air Powered Rocket

This activity is suitable for outdoor use. Please make sure you have a suitable area of space to work within and that the correct risk assessments are completed.

What you will need:

- A 2-litre water bottle.
- Suitable craft resources to make your bottle into a rocket.
- A cork (this needs to be pre-cut by an adult to ensure the needle will be able to go all the way through it).
- An air pump with a needle adapter (e.g. bicycle or football pump)
- A launch pad (e.g. a garden fork) to place your bottle on in preparation for launch.



Instructions:

1. Decorate your bottle to turn it into a rocket. It is a good idea to put fins on either side.
2. Push the cork into the neck of the bottle.
3. Pierce the cork with the needle adapter, ensuring the needle comes through on the other side.
4. Place the bottle onto the launch pad, bottle neck down.
5. Attach the pump to the needle adapter and begin to pump air into the bottle.
6. When the rocket bottle is full of air, it will launch into the sky.

Extension Activities:

- Can you find a way of measuring how high your bottle launches into the sky? Can you make it go higher?
- Fill your bottle with different amounts of water before pumping it full of air. What happens when it launches?