

## Teabag rocket activity

**Hot air rises** and this easy activity for all ages is a great way to demonstrate how.

**Adult supervision required**

### You will need

- teabag
- lighter or matches

### Directions

1. Take an unused teabag, remove the staple and empty out all of the tea.
2. Open it upright so that it is standing up like a cylinder.
3. Light the top of it with matches or a lighter.
4. Count down and watch it fly.



### How did that happen?

There are a couple of reasons that cause the teabag to fly. Firstly, as the flame burns down the bag it heats the air inside. The tiny air molecules get really excited and run around in circles spreading out. This means the molecules inside the bag are further apart than the ones outside, making the air inside less dense. **Warmer less dense air rises above cooler more dense air.**

Secondly, as the bag burns the smoke lifts away leaving just the ash. Since the ash is so light the force of the rising hot air is strong enough to lift it into the air.