

Gravity

Simple Science Trick

When a heavy item and a light item are dropped from the same height at the same time which one will hit the floor first? This quick and easy science "trick" is interesting and fun and uses materials you may already have around your home.

Remember, it's always a good idea to practice at home first!

Suggested Materials:

- ❖ 1 x pencil (or similar)
- ❖ 1 x compact but slightly heavy book (or similar)

Suggested Instructions:



Step 1: At home, hold one item in each hand with your arms outstretched in front of you at shoulder height. Practice dropping your items at exactly the same time, from exactly the same height, and watch them hit the floor at the same time.



Step 2: At school, ask the class this question before performing your demonstration: "If I let go of both these things from exactly the same height, at exactly the same time, which one do you think will hit the floor first?"



Step 3: Pass the items around the class so that they can feel the difference in weight between the 2 items. Then move on to Step 4.



Step 4: Hold both your arms outstretched at shoulder height and let go of your 2 items at exactly the same time. Watch your classmates' amazement as the light item hits the floor at the same time as the heavy item.