

Task 1: Can I demonstrate the effects of air and water resistance?



1. Scan the QR codes to find out about air and water resistance.
2. Get 2 pieces of paper that are the same size. Scrunch 1 up and hold the other flat. Then drop them from the same height. Which one falls the fastest? Can you explain why?
3. Ask permission to do this next experiment first.

Get a glass of water and experiment with lumps of playdough or plasticine that are the same size. Can you alter the shape of them so that they fall quicker or slower through the water? Think carefully about how the surface area affects the speed that it falls.
4. Play the Kahoot quiz to show what you have learnt
PIN 0818662

Task 2: Can I show that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect?

1. Go to the pod called Simple Machines on Study Ladder.
2. Watch the tutorial and answer the practise questions.
3. How many objects can you think of that contain levers?
4. How many objects can you think of that contain pulleys?
5. How many objects can you think of that contain gears?

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