

Gravity: Coin Race

Grade Level: All grades

Learning Objective: To explain how air resistance affects objects.

Science Unit: Energy and forces – gravity

Skills Development

Observing

Materials Needed

- Two 1 dirham coins
- Two pieces of card
- Tape

Steps

1. Tape the coin to middle of the piece of card.
2. Tape the other coin close to the edge of the other piece of card.
3. Hold the card with coin at the edge vertically and hold the card with the coin in the middle horizontally.
4. Drop both cards at the same time and see which gets to the ground first.

What's Happening?

The card held vertically falls faster than the card held horizontally.

Scientific Principles

The card held horizontally takes longer to fall because it experiences more air resistance.

