

Tuesday 23rd March 2020

Science - Forces

WALT: Identify the effect of air-resistance on materials

Look at the following pictures. Can you copy them and then draw arrows on them to show where GRAVITY and AIR-RESISTANCE will be acting on each person:

Bike with high handle bars



Parachutist. Chute is NOT open



Bike with low handle bars



Parachutist. Chute IS open



Image taken from

https://www.stem.org.uk/system/files/elibrary-resources/legacy_files_migrated/28352-Forces%20and%20air%20resistance%20activity%20sheet.pdf

What effect do you think air-resistance is having on each person? Is air-resistance useful or is it a problem?



Investigation

Can you make a parachute for a toy or a plastic cup?

- Try using a plastic bag, paper, fabric or anything else you can find at home. What effect does air resistance have on each material?
- Draw a table to show your results:

| Material used for parachute | Effect of air-resistance on material |
|-----------------------------|--------------------------------------|
| | |

What conclusion can you make? Which material worked best? Which had the most air resistance? Which had the least?

Write a conclusion.