

Aerodynamics Experiment Tips

Read below for extra tips to help you complete your science experiments.



Air-Powered Rocket

- Safety first — Aim your rocket away from other people, animals and fragile items.
- Holes in your nosecone or between the air tube and chamber may slow down your rocket. Be sure to seal gaps tightly with tape.
- Space out your fins evenly by making marks around your rocket before you tape the fins down. Once taped, they may be difficult to readjust.
- Use the rocket template as a guide, and with more paper, design new rockets to launch! Try shaping the nosecone differently or adding bigger fins.



Hovercraft

- Blowing up a balloon can be tricky! Ask an adult to help inflate the balloon, if needed.
- Do not tie the opening of the balloon closed. Twist it instead. This gives the air a way to escape and propel your hovercraft.
- Leaks between the foam circle and plastic disk may slow down your hovercraft. Be sure to seal gaps tightly with clay.



Ball Launcher

- Widen the slits of the cylinder with an index card first. This will make it easier to insert the rubber bands into the slits.
- To launch, squeeze the sides of the cylinder. Experiment by squeezing with varying degrees of pressure and by launching from different angles.
- Safety first — Aim your cylinder away from other people, animals and fragile items when launching.
- Play a game with your launcher: Make targets out of boxes and try to launch the ball into the box.