



## Activity Card

# “Lift: The Helicopter”

**OUTCOME:** To demonstrate how a helicopter uses lift to manoeuvre.

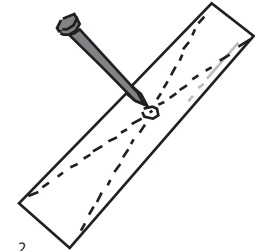
- PROCEDURE:**
1. Cut a rectangular strip of plastic from the bottle. This is going to be the rotor blade.
  2. Use a nail to make a hole in the centre of the plastic strip.
  3. Push the dowel through the hole in the plastic strip. It must be a tight fit. Twist the blades slightly. Now you are ready for a test flight. Spin the helicopter with your hands and throw it into the air.
  4. How can you improve your helicopter design? Try making rotor blades that are short and fat. What happens when the blade is long and thin?

**MATERIALS NEEDED:** a length of dowel  
a plastic pop bottle

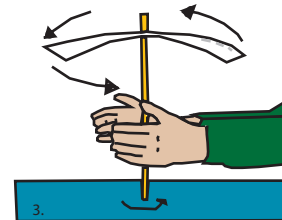
scissors  
a nail



1.



2.



3.