

Name:

Helicopter Lab

Directions

- 1) Obtain a colored piece of paper with the helicopter diagram on it.
- 2) Cutting **ONLY ON THE DOTTED** lines, cut out the helicopter.
- 3) Keep the scrap paper to use later in the experiment.
- 4) Fold the helicopter on the **SOLID BLACK** lines, make sure that blade "1" is facing **UP**.
- 5) Read and answer the questions below. Predict what will happen **BEFORE** you complete each test.

1. What do you predict will happen when you drop the helicopter and allow it to fall towards the floor? What actually happened? Which way did the blades turn (clockwise or counterclockwise)?

I predict that

I observed

The blades

2. Fold each blade in half in the other direction, so that blade "2" is facing up. What do you predict will happen when you drop the helicopter and allow it to fall towards the floor? What actually happened? Which way did the blades turn (clockwise or counterclockwise)?

I predict that

I observed

The blades

3. What happens when you add a paperclip to the bottom of the helicopter? What do you predict will happen when you drop the helicopter and allow it to fall towards the floor? What actually happened? Did the blades move faster or slower? What happened when you added more than one paperclip?

I predict that

I observed

The blades

When more clips were added

- 4. What happens when you add paperclips to the wings of the helicopter? What do you predict will happen when you drop the helicopter and allow it to fall towards the floor? What actually happened? Did the blades move faster or slower? What happened when you added more than one paperclip?**

I predict that

I observed

The blades

When more clips were added

- 5. Design, cut out, and test helicopters of varying different sizes. Write 2-3 sentences to summarize what you've learned during this lab. Be sure to mention what happened to the SPEED of the helicopter what the size was changed.**

