

HYPOTHESIS WRITING

Name _____

Date _____ Per _____

Step 1: UNDERLINE the Independent variable and **CIRCLE** the Dependent Variable in each of the questions below.

Step 2: Write a hypothesis for each question. Your hypothesis should be in the format of: “**IF** the (write the manipulated variable), **THEN** the (responding variable) will.....”

1. How does the blade length of a paper helicopter affect its hang time (how long it's in the air)?

2. What effect does distance from a hoop have on the number of shots made (accuracy)?

3. What effect does liquid volume in a glass jar have on the pitch of the sound produced when the jar is struck?

4. What effect does the launch angle of a rubber band have on the distance the rubber band travels?

5. What effect does the mass of a pendulum have on the number of full back and forth swings (periods)?

6. What effect does the height of a ramp have on the distance a cup is pushed by a golf ball that is rolled down the ramp?

7. How does the number of drainage holes in a cup affect its draining time?

8. How does the volume of a jar placed over a candle affect its burning time?

9. How does the number of jumping jacks a person completes affect their heart rate?

10. How does ball drop height affect bounce height?

11. What effect does the mass of a car have on its speed at the bottom of a ramp?

12. What effect does ball type have on bounce height?