

Lesson 5: How Does The Surface Affect the Jumping Frog Toy?

Activity 5.1

+ Safety

Use the toy frogs only to perform the lab. Do not misuse the lab equipment.

Purpose

The main question is: what type of surface will allow a frog to jump a greater distance? Conduct an experiment that measures the jumping distance of a toy frog on different surfaces. Answer the follow the questions before your start your experiment.

Variables

What is the independent variable (manipulated variable) for this experiment?

What is the dependent variable (measured/ responding variable) for this experiment?

What are the controlled variables (variables that stays the same) for this experiment? (State at least 3)

Data

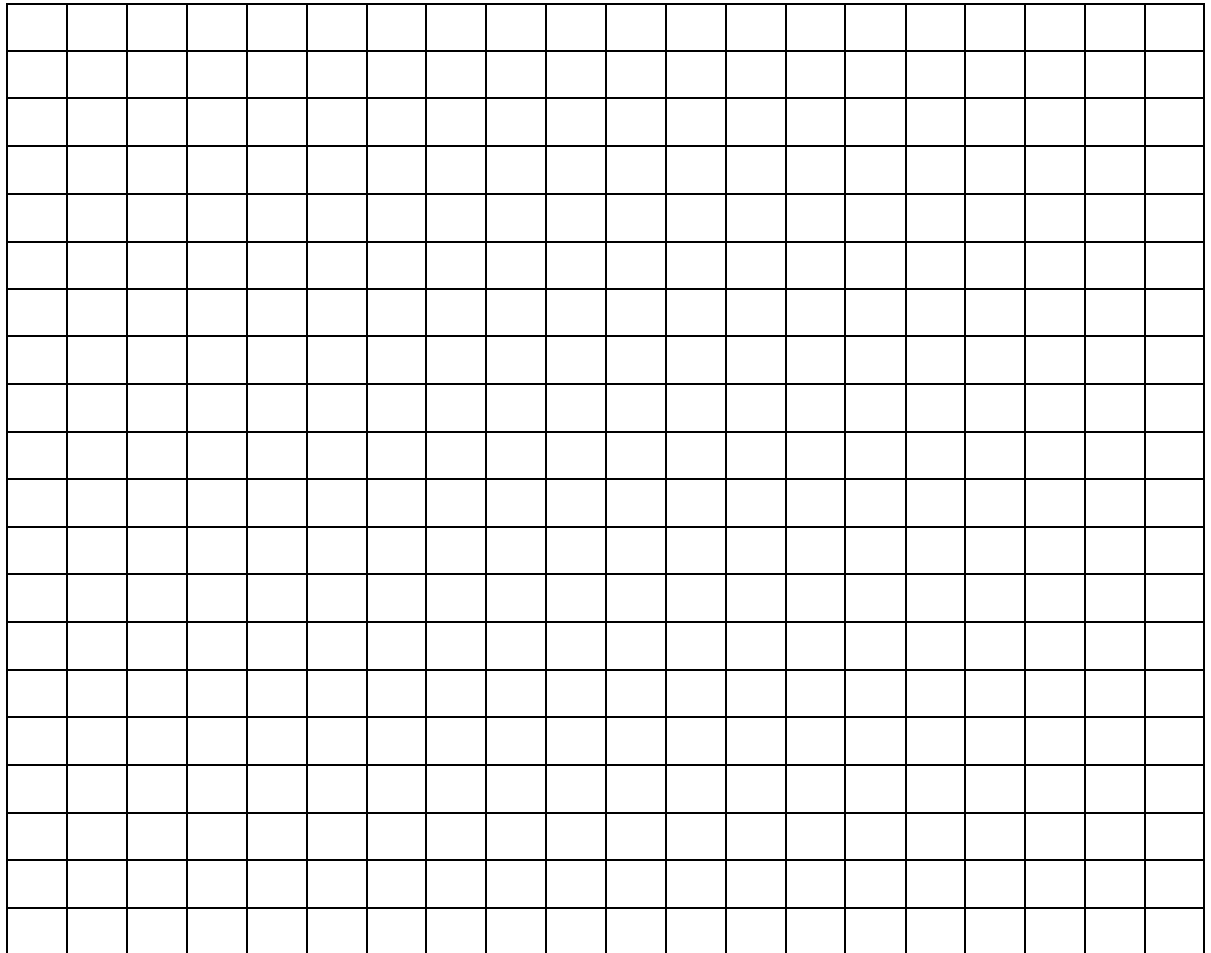
Type of Surface:	Trial #1	Trial #2	Trial #3	Average

Your Progress:

- Mastery
- Proficient
- Developing
- Beginning

Use this grid to create a bar graph with your **average** for each type of surface.

- Labeled X axis with the independent variable.
- Labeled Y axis with the dependent variable, and units.
- Plot the data from your experiment and create a bar for each average..
- Give the graph an appropriate title that describes both variables.



How does the surface affect the distance the toy frog can jump?

Do you think this is because the surface adds energy to the toy? Explain your thinking.
