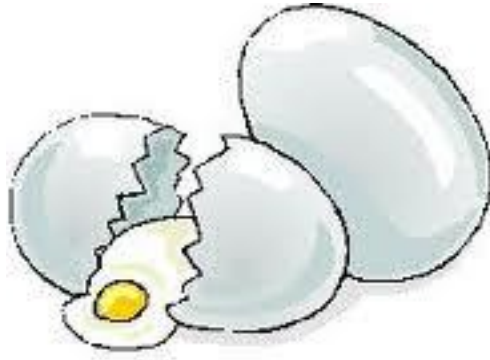


The Great Egg Drop

by _____

As a class, we will be using the steps of the Scientific Method to design our own experiment to test the following problem:



Step 1: State the Problem

How can we keep an egg from cracking when it is dropped from _____ feet onto the pavement?

Step 2: Make Observations

Take a close look at your egg. You may want to make note of how big the egg is so that you know how big to build your structure. Think about the shape of the egg. Write down at least 3 observations that will help you build a structure to protect your egg.

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Step 3: Form a Hypothesis

If I protect the egg using _____
_____ then the egg will **not** break.

Step 4: Test the Hypothesis / Experiment

On Friday, Nov. 8, we will drop our eggs from a ladder onto the pavement to test our hypotheses. Please bring in the structure you plan to use to protect your egg on this day. List below all the materials you use to build your structure.

Materials:

Step 5: Analyze Data

There are 2 types of data that scientists use: **quantitative** (numbers) and **qualitative** (written descriptions of their observations). Which type of data do you think we will be collecting during this experiment?

Quantitative

Qualitative

Write a brief description of your observations during the egg drop below. Be sure to describe what happened to your egg when it hit the ground and anything interesting that happened while it was falling.

Draw a picture of your egg before the experiment:

Draw a picture of your egg after the experiment:

Step 6: Draw Conclusions

Look back at your hypothesis from Step 3. Your hypothesis said that if you used your chosen materials, the egg would **not** break. Were you right?

Yes

No

Step 7: Communicate Results

Scientists always share the results of their experiment with other scientists. Write a paragraph below to explain the results of your experiment. You should answer the following questions:

- Did you successfully protect your egg from cracking? Why or why not?
- What would you change if you did the experiment again?
- What tips would you give to another scientist who wanted to try this experiment?

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