



Egg Drop Experiment

Egg Drop Day

Friday, November 18th at 9:30 a.m.

Bring:

- this Power Point...completed
- Your Egg Drop Invention

- Your job is to invent something that will prevent a raw egg from breaking when dropped from 9 feet.
- Your invention cannot be larger than 12 inches by 12 inches by 12 inches.
- You must be able to reveal your unharmed, raw egg in 60 seconds.
- Your form must be in complete sentences.

Inquiry Skills needed during this project: Question Problem, and Hypothesis, Predictions, Materials and Process, Observation and Data, Conclusion and Reflection. See Science Notebook for more information.

Extra credit: Include any photos or labeled illustrations of successful or failed experiments or variations on your experiment.

A raw egg will break if it is dropped from 9 feet.

A container could prevent from breaking.

Step 1:

Question, Problem and Hypothesis

What do you think will prevent the egg from breaking? In complete sentences, think of at least 2 ideas for your invention and write questions that you could find the answers to.

For example: I could wrap the egg in plastic wrap with toilet paper in between to prevent my egg from cracking. Would it work better to wrap 4 thin layers, or 2 thick layers using more toilet paper in between? Would cotton and toilet paper provide more cushion than just the paper?

I am learning about....

I think this is going to happen...

Step 2: Predictions

For example: I can predict a raw egg will not break when dropped from 9 feet when it is because I know that.....
(describe your container in detail that you will be making).

I can make this prediction because I know that....

Step 3: Materials and Process

List the materials you will need in order to do your experiment. Be specific. Use measurement and exact amounts when possible.

List the steps you used.

I used these materials....

These are the steps that I used...

Step 4: Observation and Data

When, where and how did you do it? What did you see? Remember to test your invention more than once.

I saw that...

Step 5: Conclusion

State in complete sentences whether your original hypothesis was correct or incorrect.

Did your experiment prove or disprove your hypothesis?

Did you have to make any changes or adjustments?
I claim that....

Step 6: Reflection

What do you wonder? Think of a question that you could ask to take this project one step further.

For example: What if I used a _____ instead of a raw egg? Or: What if I dropped my container from _____ instead of 9 feet?

Answer your own questions the best you can using what you already know or what you learned from this experiment.

I wonder....

Egg Drop Experiment Invention Rubric

4

All directions are followed, all sentences complete.
Project shows evidence of time, much effort, and serious thinking.
Invention is **original** and **creative**.
Neat and follows plans accurately.
Extra credit may or may not be included.

3

Most directions are followed.
Some effort was put into the completion of the form.
Invention meets the requirements.

2

Some directions are followed.
Form is incomplete.
Very little time was invested in the project.
Invention submitted does not meet the requirements.

1

Directions are not followed.
Form is incomplete.
No time was invested in the project.
No project is submitted.

Extra credit: Include any photos or labeled illustrations of successful or failed experiments or variations on your experiment.

***** Note*****

No peanut butter jars, balloons, parachutes or stuffed animals are allowed!