

# Project Egg Drop



Student Name: \_\_\_\_\_ Homeroom Teacher: \_\_\_\_\_

## **Purpose:**

We are trying to protect the egg from breaking when it is dropped from different heights. This experiment is like wearing a helmet on your head when you are riding your bike or skateboard. When you fall off, the helmet protects your head from injuries. It is important to science and engineering because we need better ways to keep people safe.

**Prior Knowledge:** (What do I know about egg shells and bones?) \_\_\_\_\_

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**Research:** Chicken eggs have shells to protect the animal that is growing inside. It keeps the animal and its food in one place so that the baby chick has everything it needs to grow and hatch.

Bones give our bodies shape; they also protect certain parts of our body. The rib cage protects the heart and lungs, while the skull protects our brains.

Both egg shells and bones are partly made of calcium carbonate. Like egg shells, bones can break. When this happens, we get hurt. We can have trouble moving or we may hurt an important organ inside our bodies.

Some sports have you wear special gear to protect your body from getting hurt. Write down a sport that has you wear special equipment to protect your body.

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## **Materials:**

- Something to measure height (ruler, tape measure, yard stick, meter stick)
- Uncooked eggs
- Scrap materials found around your house

## **Procedures:**

1. Collect scrap materials found at your house.
2. Create a container to protect your egg.
3. Place the egg in the container and close it up. (Either draw the container or take a photo.)

4. Height 1: Record the tallest height your child can hold the container by just standing on the floor.
5. Drop the egg from that height.
6. Check the egg. Record if the egg broke or was safe. If it broke, modify your container so that it protects the egg and try again until your egg drops without breaking. Then move to the next step. (Either draw the container or take a photo.)
  
7. Height 2: 6 feet. Measure 6 feet up and drop the container from that height.
8. Check the egg. Record if the egg broke or was safe. If it broke, modify your container so that it protects the egg more. (Either draw the container or take a photo.)
  
9. Height 3: \_\_\_\_\_
10. Check the egg. Record if the egg broke or was safe. If it broke, modify your container so that it protects the egg more.
11. Last height will be done with Ms. Baldwin

Data

Project	Height 1 ___ feet ___ inches	Height 2 6 feet 0 inches	Height 3 ___ feet ___ inches	Height 4 To be done with Ms. Baldwin
Safe or Broke?				
Safe or Broke?				
Safe or Broke?				

The materials that protected my egg were


**Conclusion:** I learned that \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Analysis:** Will be done with Ms. Baldwin

Please return these sheets, drawings or photos and your container to the school by Tuesday, November 29<sup>th</sup>.