EGG DROP

OBJECTIVE:
You must create a container to protect one raw chicken egg from the forces of an extended fall.

Observation: What would happen to a raw egg if it is dropped off the 2nd floor, and why?

_______________________________________________________________________________________
_______________________________________________________________________________________
_______________________________________________________________________________________
_______________________________________________________________________________________

PROCEDURE:
1.) Determine what forces will act on an egg that is dropped from a great height.

2.) With your partner, decide how these forces could cause the egg to crack and how your container will prevent them from doing so.

3.) POSTER OR PRESENTATION: Create a drawing of your container that includes labels reflecting effort; is colorful and neat.
   - DESCRIBE which force the container is trying to lessen or alter.
   - IDENTIFY the parts of the container that change the effect of that force.
   - EXPLAIN how the container serves to change the effect of the force.
   - WRITE how you beat each of Newton's three laws of motion with the egg drop container.

4.) Build your container. (*It's okay if you make changes to your container that are not in your original drawing. Making changes as you discover what works and what doesn't is the mark of a good scientist!*)

5.) Test your container and make any needed changes.

6.) Final Test of your container in front of class on ________________.

7) Presentation of you drawing in front of class on ________________.
**Materials:** List all the materials that you have chosen to build your container. **Circle the ones you are responsible for bringing. You may not use peanut butter or liquids in your construction and no parachutes.**

1. Raw egg
2. Grocery Bag for storing materials
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 

You may also use school glue, scissors, and measuring devices in your construction.

**RULES:**

1.) Your container may not be larger than 12" by 12" by 12". Your container can have extensions coming from it, but may not measure more than 12 inches in any direction. In other words, your container and all of its parts must fit into a box that measures 12" by 12" by 12" without modification. **No parachutes!!!!**

2.) You may not alter your egg in any way. This includes anything to make the shell itself more resistant to cracking. Your egg must be fresh and in natural condition.

3.) All containers will be opened by the teacher and the egg inspected immediately after impact.

**FINAL TEST:**

**Part 1:** On Drop Day, the container will be dropped off the top of the stadium bleachers onto plywood. The egg container must be dropped to the floor without touching or interfering with its descent. I will then assess the damage to the egg.

**Part 2:** You and your partner will present your drawing complete with results during your science class. **Please see the rubric for how your project will be graded.**