

Drop Day is Monday, April 12th.
Lab Report is due Friday April 16th.

The Second Annual Crossroads Egg Drop

Objectives:

- Students will use the scientific method to build an egg drop apparatus to protect a raw egg that is dropped from six feet onto concrete, then dropped from 10 feet onto concrete, and finally dropped from 12ft plus onto concrete. Think of the egg as a passenger in a car going through a crash test.
- Students must turn in a complete typed lab report that includes the following:
 1. Purpose
 2. Research (minimum of three documented sources)
 3. Hypothesis
 4. Experimentation (Include materials needed, procedure, and any additional tests run prior to drop day.)
 5. Results
 6. Analysis
 7. Conclusion

**Sections 5-7 will be completed after drop day.*

Restrictions:

- The egg and its contraption must hit the ground!
- The container may be no longer than 6 inches on any side. For each centimeter that the container is off a point will be deducted from the final grade. This does not include parachutes. There is no weight restriction.
- Only raw, store bought chicken eggs; size medium or larger may be used. You may NOT soak the egg in vinegar.
- Your egg project must have an opening or be easily opened so that we can see the egg after each drop. *It is recommended that you place your egg in a small Ziploc bag.*

Grading Criteria:

- This project is equal to two tests grades for the fourth quarter. One grade will be given for a completed lab report and a second will be given for the actual egg drop results.
- If the student's apparatus participates in the six foot drop but the egg cracks and is unable to continue on, he or she will receive the grade of a 80 = C.
- If the apparatus and the egg withstand the initial six foot drop and are able to participate in the 10 foot drop but the egg cracks and is unable to continue on, he or she will receive a 90 = B.
- If the egg and the apparatus survive the first two drops and are able to participate in the twelve foot droop, the student will receive a 100 =A.
- If the egg and apparatus survive all three drops, the student will receive a bonus point for each additional foot it is able to survive.