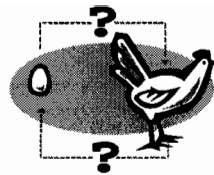


Egg Drop Project



Purpose: To design and build a wooden container to safely transport an egg during free fall motion.

Materials: The following materials may be used in construction of this project.

- Wood strips not larger than $\frac{1}{4}$ " \times $\frac{1}{4}$ " in cross-section. Any type of wood may be used. Note: Bamboo is not wood; it is a type of grass.
- Glue or adhesive material. This includes all glues, cements, super glues, and hot glue guns.

Specifications: The devise must hold a "Grade A Large" egg during its free fall decent from the second story balcony above the commons. The following specifications must be followed.

- The container's weight (in grams) will be recorded.
- A raw "Grade A Large" egg will be supplied by the teacher on the testing day. Do not bring any eggs to school. (Not all eggs are created equal)
- The egg will be placed into the wooden container on the testing day.
- The wooden container with the egg will be dropped from the 2nd floor balcony overlooking the commons.

Grading: The grade system is a competitive grade system which incorporates the following criteria.

- If the egg breaks or cracks at **any time**, the grade will be a 70. The egg is your passenger; you don't want an injured passenger.
- Grades will be determined by the lightest weight container which successfully carries the egg to the floor. The containers will be ranked according to weight. Grades will be determined from that rank; 1st will be given a 100, 2nd will get a 99, etc.
- An early turn in date will be posted. All projects turned in on the early turn in date will receive a 10 point bonus on final project grade.
- Any project not turned in on the due date by 8 am will receive a grade of a zero. Not meeting specs will result in a grade of 60 (no bonus)