

Egg Drop Contest

Each student will construct a container that will allow an egg to withstand a drop from approximately 20 feet to the ground below.

Instructions:

1. Review all contest rules.
2. Using my website and other internet resources, research container designs.
3. Construct container.
4. Test container and make modifications. Testing prior to competition must take place in class and will be drops of approximately 10'. You may want to test with something more fragile than an egg to test your design. Receive approval from me prior to contest day.

Rules:

Originality and creativity are appreciated, but your design needs to follow these rules.

1. Weight cannot exceed 175 grams.
2. Each container must have an "egg compartment" that allows the egg to be inserted within 2 minutes prior to each drop.
3. Container cannot exceed 20 cm in any dimension when handed to the judge to be dropped.
4. No more than 20 parts may be used in your container (each type of adhesive counts as 1).
5. The egg may not be altered in any way and tape or glue may not be applied to the egg.
6. The container must land within the defined drop zone or it will be disqualified. You do NOT want your container to bounce!
7. Your design must have a loop on top to attach to the drop mechanism.

Scoring the Solutions:

1. The winner is the design that allows the egg to land unharmed and is closest to the drop zone center.
2. In the event of a tie, the lighter container wins.
3. Each container will receive 0 – 5 points for quality of construction and design considerations. Each container will receive 0 – 5 points for performance in the competition based on egg survival and closeness to the drop zone center.