



# Egg Drop Competition

### Materials

- raw eggs
- a variety of arts and crafts materials such as cups, egg cartons, cardboard etc.
- sticky tape
- cushioning materials such as cotton balls, bubble wrap etc.
- pencil and paper
- Optional: parachute materials (string, paper bag, etc)



*Original Source: [Sciencebuddies.org](https://www.sciencebuddies.org)*

### Instructions

1. Form the students into groups of 2 – 3 and ask them to design a device that can protect an egg from a fall without cracking. A basic landing craft should have a protective case to sit the egg in and padding to reduce as much damage as possible from the fall. The design can include a parachute.

The only rules for this challenge are:

- the egg must be raw - unboiled
  - the egg must "survive" the fall with no cracks and be retrievable
  - the egg cannot be permanently stuck inside the design
2. After designs have been drawn, the group can start creating their landing craft using the creative materials provided.
  3. Determine a height to drop the egg landing crafts from.
  4. Take turns dropping the crafts with the egg in it and see how many eggs survives the landing!
  5. Using the observations from the first drop, ask the students to consider changes to their designs and build a second, improved prototype.