



Project: Egg Drop





Learning Objective: SWBAT protect an egg from breaking when dropped from three different heights using a parachute and cushioning.

Mission

Using two different methods, protect your egg from breaking when dropped from

- 2 meters
- D-E breezeway
- E-F breezeway

Project Specifications

- Image of your egg must be shared with Mr. S. in your Google Slide show so he can print it out for display

Project Specifications

- *Design Criteria*
  - Container has a volume limit of 1 Liter (approximately a 10 cm by 10 cm by 10 cm cube)
    - Calculate the volume of your container
    - Show calculations on a Google Slide
  - Container is a uniform shape (nothing sticking out)
  - Container is usable **3 times** with no additional materials
  - Egg must be able to breath while riding (face is visible)
  - Egg must be easily removable to inspect

Project Specifications

- *Materials*
  - Limited amounts of newspaper, cardboard, straws and plastic bags will be provided
  - ***Any other materials must be brought in from home!***
  - Cushioning and parachutes must be engineered!
    - No use of materials that are designed to be parachutes or cushion (parachutes from toys, packing peanuts, bubble wrap, etc)

Project Specifications

- *Two Methods of Protecting the Egg*
  - Parachute and Cushioning

The Drops

Parachute and Cushioning

- 2 meters
- D-E breezeway
- E-F breezeway (for bonus points!)