

# Egg Drop Challenge

**Goal:** Design and construct a container that will protect an egg from breaking. Then, with an adult's help, drop the egg in the container from a high spot to test the protective container!

## Materials:

- Hardboiled egg or plastic egg (Easter egg)
  - *Tip! If using a real egg place into a resealable bag to prevent mess.*
- Small boxes
- Recycled paper, newspaper, or packing paper
- Cardboard tubes
- Resealable bag
- Cotton balls
- Coffee filters
- Plastic bags
- Straws
- Any other desired materials allowed

## What to Do

1. Design a container to keep an egg from breaking!
2. Make your design.
3. Seal the egg inside the container.
  - a. *Tip! Build your design around your egg.*
4. With an adult's help, drop the egg from a high place.
5. Now look to see if your egg cracked!

## Evaluate

1. Did it work?
  - a. Great job! Now, with adult's help, try dropping your egg from an even higher spot. How did your design help protect the egg?
2. Did not work?
  - a. You still did a great job! How could you make the container more protective? What could you add or change to your design?

## What is Happening?

- The egg is falling due to gravity and will keep falling unless something stops it! In this case, the ground stopped it! This is the concept of inertia.
- The materials around the egg will absorb the impact so your egg doesn't break when it hits the ground

**Draw an egg-cellent design to protect the egg!**



**Predict: Why do you think your design will work?**

---

---

**Conclusion: Did it work? Why did it protect the egg? Or why did it not protect the egg?**

---

---

---

---

---

**Ohio Academic Standards:**

1.PS.2, 2.PS1

**Next Generation Science Standards (NGSS)**

K-2-ETS1-2, 3-5-ETS1