Egg Drop Challenge

STEM • GET OUTSIDE!

Have you ever wondered how birds and fish protect their eggs from cracking or breaking? Use your science and engineering skills to design and build a device to protect an egg, then test out your device from different heights and track your results!

Materials:

- 1 Raw Egg
- Recycled materials for building (i.e. cardboard, paper, foam, yarn, cotton balls, cups, bags, etc.)
- Tape and/or glue

Directions:

1. Gather your materials.
2. Using your materials, sketch a design of your Egg Drop device in the box below
3. Once you have your design perfected, it is time to build!
4. Build your device.
5. With help from an adult, it is time to test your device!
6. Now it is time to drop your device from different heights and collect your data! Use the data sheet on the next page to write down your predictions and results.

Design: Using the materials you have gathered, sketch a design of your device below.

Egg Drop Data Sheet

Record your predictions and results of your egg drop activity using this chart:

Attempt	Prediction (Will your device be successful? Why or why not)	Result (Did the egg crack or break?)
#1 Height _____ ft		
#2 Height _____ ft		
#3 Height _____ ft		
#4 Height _____ ft		
#5 Height _____ ft		

Questions:

1. What material was most important in your design?
2. How would you improve your design for next time?