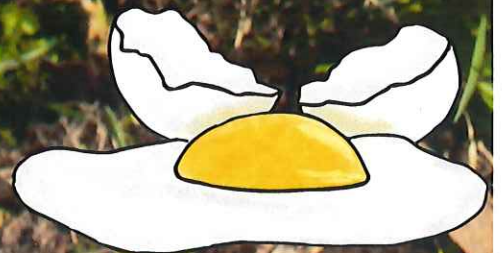




SPRING STEM EGG DROP

Carly and Adam





Example!

Egg Drop Instructions

Materials for each group of 2-3 students:

- eggs
- scrap paper/newspaper
- paper towels
- straws
- scissors
- popsicle sticks
- tape
- glue
- cardboard boxes
- plastic sandwich bags
- grocery bags
- plastic containers
- balloons
- string

*Materials may vary, but you want students to have a variety to choose from. You also may want to allow students to bring in at least one material from home to use in their design.

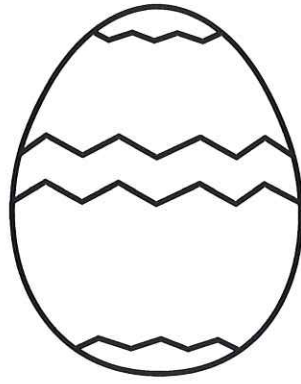
Instructions:

- This challenge will be completed in groups of 2-3 students.
- Students will construct a device to protect an egg from cracking when it is dropped.

Egg Drop Instructions

Instructions (Continued):

- Allow students approximately 10 minutes to plan their design individually and another 10-20 minutes to plan as a team. Use the included planning pages.
- Students will have 30 minutes to build their design.
- At the end of the time limit test each design.
- There are many different options to test:
 - If testing inside the teacher can stand on a chair or ladder to drop the egg.
 - If testing outside the teacher can stand on top of the playground.
 - Another option is to test each design by dropping it out of a second story window.
- *To add more challenge test from a higher distance.
- The designs that keep the egg from cracking will complete the challenge successfully.
- Following testing have students complete the reflection page.



Dear Students,

Your challenge is to design and build a device that will protect an egg from breaking after it is dropped.

Your design will need to cushion the egg and slow it down so that it does not crack or break when it hits the ground. Your teacher will tell you what materials you are allowed to use. You will have 10 minutes to plan individually and another 10-20 minutes to plan as a team. You will have 30 minutes to complete this challenge. To successfully complete the challenge your egg must not crack or break.

Materials:

Check with your teacher to see what materials you will be using.

Good luck!

Name: _____

EGG DROP



My Design:

Name: _____

EGG DROP PLANNING



How will you use your materials?

How will you be sure that your egg will not break?

What possible problems could come up as you construct your design?

Name: _____

EGG DROP REFLECTION



What about your design worked well?

If you were to do this STEM challenge again
what would you do differently?

How did your group work together? What was
your role in the group?
