

# The Great Egg Drop

Activities for Collaborative Thinking

ICEBREAKERS AND TEAM BUILDERS TO BUILD COMMUNITY

## OBJECTIVES

- To work as a team
- To design a solution working within certain constraints
- To test one's ideas

## MATERIALS


- For this activity, each group will need a paper bag with the following:
- One sheet of newspaper
  - Two pieces of paper
  - Two paper plates
  - Six drinking straws
  - Tape (two feet or less)
  - Glue (only for gluing things)
  - One plastic or Styrofoam cup (Thirty-two oz. or smaller)
  - Ten toothpicks
  - Five Popsicle sticks
  - One balloon
  - One plastic spoon and fork
  - One empty water bottle that is twenty-four oz. or less
  - One small Ziploc bag
  - You will also need one unbroken raw egg in its shell for each group.

## SETUP

- Prepare the materials in bags. You will need enough bags for groups of three participants each.
- Place each egg in separate Ziploc bags for easy clean up.

## INSTRUCTIONS

1. Ask participants to get into **groups of three** (perhaps by pulling names from a hat).
2. Explain that they will now **imagine they are structural engineers** and their challenge is to **build a contraption that can safely hold an egg**.
3. To test each structure, the groups will **drop the structure (with a raw egg in it) from a second-floor classroom window**.

CONTINUED 

## The Great Egg Drop continued

4. Explain that the group whose **egg is still intact** after the fall will win **Engineer of the Year**.
5. **Give** each group a paper bag with all their materials and one raw egg.
6. Explain the rules: **they may only use the materials in the paper bag, and the final product must be small enough to fit through a classroom window**.
7. The groups will have **thirty minutes** to complete the task.
8. **Call, "Time,"** after thirty minutes, and **gather** the groups to witness each other's egg drop.
9. **Celebrate** the winning team and the efforts and creativity of the whole group.

## DEBRIEF

- What was hard about this activity?
- What were some "scientific approaches" your group took?
- What did you like about the other groups' prototypes?