



## 2008 HollyFest Egg Drop Contest Rules

### How the Competition Works

Your job is to build an egg holder that will protect a raw, uncooked egg as it falls from the Holly Springs Fire Department's Cherry Picker to the ground below. We'll start at 5 feet and increase until there is only one egg left uncracked.

If you are successful you could win a trophy; learn about energy, motion and design and watch other people splatter their eggs.

### Creation of Container

You can make your container at home or you can join us for a fun filled time at the Holly Springs Cultural Center. We will bring materials and our science expertise, on October 18<sup>th</sup> from 11am-3pm (material fee \$8). Note: This is not a drop off program. Parents should plan on staying with your child since each child will build their contraption in their own time – stay as little or long as you want.

### Rules

1. There will be 4 age divisions: Elementary School, Middle School, High School and Adults.
2. Weight and Size and Design Restrictions:
  - a. Elementary: 4 lbs, 24 inches
  - b. Middle School: 2½ lbs, 18 inches
  - c. High School: 2 lbs, 15 inches, no wings or parachutes
  - d. Adults: 1½ lbs, 12 inches, no wings or parachutes, no Styrofoam, no pre-made plastic bubble wrap or other store bought packing material or foam.
3. No gases other than air may be used.
4. No splatterables such as peanut butter, jell-o, liquids, fruit or vegetables (popcorn is OK).
5. No flammable substances.
6. No glass.
7. Containers in the children's divisions must look like they were made by the child with limited adult help.
8. Containers must be able to withstand multiple droppings. No alterations, repairs or repackaging can be made after first drop.
9. Container must be constructed with a hatch or door so that the egg (wrapped in a plastic bag) can be inserted before each drop and inspected after each drop.
10. Failure to follow design guidelines above could result in disqualification. It is up to the judges' discretion as to whether or not the guidelines are being followed.
11. Must be present during your divisional competition to win.
12. Employees of Wonder Full Science, Dinosaurs Rock NC, and Holly Spring Cultural Center are not eligible.
13. Children of employees listed in #12 may compete but can not win.

### How the eggs get dropped

1. Prior to the drop, the contestants may inspect eggs for cracks. All eggs will be of similar size, age and grade.
2. Prior to the drop, at the site, the contestant must insert the egg into a plastic bag and then into the container. (Due to health safety, if the bag opens or leaks egg onto the structure, it will be disposed of.)
3. A member of the Holly Springs Fire Department will drop all competing egg containers.
4. Drops will start at the height of 5 feet and continue up in 5 foot increments.
5. The winner will be the contestant in each category whose container falls the greatest distance without the egg inside cracking or breaking.
6. A cracked egg is defined as one that is visibly leaking its contents. Hairline fractures are not considered cracks.
7. After each drop the contestant will be required to remove the egg from their container to show the judges that it did not break.
8. In the event of a tie (i.e. all the finalists' egg cracking at the same height or all survive the highest height), a winner in each category will be determined from the following formula (combination of lightest and smallest win).

$$\text{Elementary school: } \text{Score} = \frac{64}{\text{weight in ounces}} \times \frac{24}{\text{largest dimension in inches}}$$

$$\text{Middle school: } \text{Score} = \frac{40}{\text{weight in ounces}} \times \frac{18}{\text{largest dimension in inches}}$$

$$\text{High school: } \text{Score} = \frac{32}{\text{weight in ounces}} \times \frac{15}{\text{largest dimension in inches}}$$

$$\text{Adults: } \text{Score} = \frac{24}{\text{weight in ounces}} \times \frac{12}{\text{largest dimension in inches}}$$

### How to enter

1. Registration form and payment must be submitted to Holly Springs Cultural Center.
2. All containers must be submitted to the Wonder Full Science booth at HollyFest prior to the contest.
3. Entries must be clearly marked with the owner's name. Each entry will be assigned a number.

### Contest Date and Time

Womble Park, 1201 Grigsby Ave., Holly Springs, NC 27540

Saturday, October 25<sup>th</sup>, 2008

Egg drop begins at 12noon



# 2008 HollyFest Egg Drop Contest Registration Form

Submit by mail or in person to the Holly Springs Cultural Center

Instructions:

- Fill in all information and submit your registration form with fee by mail or at the Holly Springs Cultural Center
- If paying by check, please make checks payable to: Town of Holly Springs
- If mailing, please send to:  
Holly Springs Cultural Center      PO Box 8      Holly Springs, NC 27540
- Early registration is \$10 if submitted and paid for by 5:00pm Friday, October 24<sup>th</sup>, 2008.
- Late registration is \$15 if submitted and paid for on Saturday, October 25<sup>th</sup>, 2008.

Participant Name: \_\_\_\_\_

Phone #: \_\_\_\_\_ Email: \_\_\_\_\_

Age Group (choose one):

\_\_\_\_ Elementary

\_\_\_\_ Middle School

\_\_\_\_ High School

\_\_\_\_ Adults

\_\_\_\_ Team    Team Name: \_\_\_\_\_

Team Capitan Name or School Administration Contact Information:

\_\_\_\_\_

School Name (if applicable): \_\_\_\_\_

**I have received and read the rules for this competition (entry will not be accepted unless this is checked)**