

## Getting Eggs Are Easy!

People have always asked the eternal question "Which came first, the chicken or the egg?"  
BUT...

The real question is how do you keep an egg from breaking before you get it home?  
PACKAGES! PACKAGES! PACKAGES!

### TASK

You are to design a package that will protect your egg from breaking when dropped from a height of at least 8 feet.

### Activity:

- 1) You are to design an egg package that will protect one large egg from breaking. Reminder: your package will be dropped from at least 8 feet!
- 2) You are to submit a drawing of your package with a list of the materials that will be used for building.
- 3) You will then build your package.
- 4) We will drop the package from selected height and inspect the egg. If the egg is broken you will need to redesign yourpackage.

YOU WILL ONLY HAVE TWO OPPORTUNITIES FOR SURVIVAL!!

### ASSESSMENT

Grades will be based on the following:

Drawing of design with all parts labeled  
and a list of bulding materials 10pts.

Participation and cooperation in class 10pts.

Survival of package 40pts.

One page written essay highlighting the following questions: 10pts.

Why do you think the package survived?

What are the possible scientific reasons why the package survived?

(based on what you now know about the laws of motion)

Was your egg in perfect condition when you opened the package? If not, what was wrong?

How many times did you make the package before you were successful?

(If you had to rebuild, what did you and your partner do differently?)

EGG DROP:

- Maximum width, depth, and length of the device are 5". Note this is a maximum dimension.
- Maximum weight of the device, with the egg, may not exceed 12 ounces.

Type of materials that may NOT be used to construct the device:

- glass or any materials that may be hazardous to any bystander
- spray foam or other hard setting materials
- parachutes of any type may not be used.
- The egg itself may NOT be covered with materials of any kind, such as tape, glue, etc. that would prevent the shell from cracking.
- You must use a large RAW chicken egg.
- Contestants must load the egg into their device before submitting it for entry.

### Egg Drop Scoring Sheet

	<b>Points Available</b>	<b>Points Awarded</b>
<b>Drawing of design</b>		
<b>Labels</b>	<b>3</b>	
<b>Neatness</b>	<b>3</b>	
<b>Details</b>	<b>4</b>	
<b>Participation and Cooperation in Class</b>	<b>10</b>	
<b>Survival of Package</b>	<b>40</b>	
<b>Essay</b>		
<b>Content</b>	<b>7</b>	
<b>Neatness</b>	<b>1</b>	
<b>Grammar and Spelling</b>	<b>1</b>	
<b>Length</b>	<b>1</b>	
<b>TOTAL</b>	<b>70</b>	