

Egg Drop

Initials/number: _____ Teacher: _____

Date: _____

Please circle ALL THE WORDS that describe the activity you just did:

Fun	Asking Questions	Boring
Creative	Like	Solving Problems
Dislike	Hard	I'm good at it
Easy	Thinking	Learning

1. A bike helmet protects a bicycle rider's head, and an egg carton keeps an egg from breaking. What are some other ways that people and things are protected from impacts?

2. Arrange the following elements of the Engineer Process in order and explain your reasoning.

Test
Define Problem
Design Solution

Build
Refine Solution

3. A "design constraint" is a requirement a design must meet in order to be successful. For example, a well-designed chair is comfortable to sit in. The constraint should not limit the solution to one kind of design. Which of the following would be a good design constraint for a device that protects an egg?
- The device must include an egg carton
 - The device must have room to hold at least one egg.
 - The device must be brightly colored
 - The device should bounce when it hits something.