EGG DROP

MATERIALS

- Eggs
- Cups
- Popsicle sticks
- Packing Material
- Paper towels
- Straws
- Tape
- String
- Plastic Sheets

EXPERIMENT

The experiment can be completed by individual children or in small groups (two kids per group is recommended). Each child/group should be given the exact same amount of materials. The exact materials listed above do not have to be the only materials used for building a cushioning mechanism for the egg drop; feel free to expand or substitute materials from this list. Encourage the children to use as much or as little of the material as they would like. Groups should be cautioned that it isn't a failure if their egg breaks in the first fall, because it is just as important in science to learn what doesn't work as what does and to explore the whys of the results.

1. The kids began by dropping their eggs from a standing position at about the same height (smaller children lifted theirs up).
2. If their egg survived, the kids then dropped them from a larger height.
3. Finally, a third, large height is selected for the final drop. (For example, one library's last drop was from their upstairs patio onto the downstairs patio - a full story high.)
4. Discussion should be initiated at each drop about what factors were necessary in order for the eggs to survive.

HOW DOES IT WORK?

This experiment challenges children to invent and use their creativity to either create a cushion for the egg to fall into or a device for the egg to fall in that will prevent the egg from cracking. Children learn to interact with materials around them, study the properties of the materials they are using, and consider how these materials work together. This experiment will also help demonstrate the fundamentals of gravity with practical application.

A great resource for further reading on this experiment is: http://eggdropproject.org/