



California State University of Bakersfield, Department of Chemistry

Bouncy Egg



Standards:

5-PS1-3. Make observations and measurements to identify materials based on their properties.

MS-PS1-2. Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred.

Introduction:

Have you ever tried to bounce an egg? In this experiment, you will be able to bounce an egg by placing it in vinegar. Vinegar has an acid called acetic acid. Acetic acid is an acid that reacts with the high calcium content of the eggshell causing it to dissolve.

Materials:

- Vinegar
- Cup or Container
- One egg

Safety:

- Always wear eye protection and gloves when doing chemistry experiments

Procedure:

1. Put the egg into the cup.
2. Pour vinegar into the cup making sure that the egg is completely submerged.
3. Change the vinegar every day for a week.

Data and Observations:

Record your observations in this space

Questions:

1. What happened to the egg after each day?

2. What made the egg bounce?

References:

1. Kids-Science-Experiments.com. <http://www.kids-science-experiments.com/magicegg.html> (accessed Jul 17, 2012)