NOST Naked Eggs

Who doesn't love a little kitchen chemistry? We're going to use common household materials to dissolve an egg's shell without cracking it open -- effectively leaving our egg "naked"! Eggshells are made up of something called **calcium** carbonate. When submerged inside a glass of vinegar, the acetic acid in the vinegar reacts with the calcium carbonate to make water, calcium acetate, and carbon dioxide, which appear as bubbles on the egg's surface. When the shell is gone, the part that remains is the egg's semipermeable membrane.

Materials

- Clear Glass
 An Egg
- Vinegar

Once you have gathered the required materials for this experiment start by filling your glass with vinegar. You only need enough to fully submerge the egg.



Examine the egg, you should begin to see evidence of the chemical reaction occurring. If you observe the egg's shell you'll notice bubbles forming on the surface of the egg. These bubbles are the carbon dioxide being produced as a byproduct of this reaction.



Leave the experiment overnight and check the egg the next day. If you feel like it make a log and describe the egg every day to keep track of the experiment.





After a week, use a spoon to gently extract the naked egg from the glass container, notice if it is more or less rigid than before. Has it grown or shrunk? Let us know the results of your experiment and see if you can figure out why its size changed!