



# Science Experiment: Dental Health Project: Health

## **Supplies:**

- 5 cups or jars
- 4 containers or plates with lips\*
- 1 cup soda
- 1 cup vinegar
- 1 cup juice
- 1 cup water
- 1-4 toothbrushes
- Baking soda or toothpaste
- 4 hardboiled eggs and/or 4 ceramic tiles\*
- Paper towel
- 4 egg holders (optional)

**\*For younger participants, it may be easier to use the ceramic tiles with the plates for the experiment. They do not move around as easily when brushing. Otherwise you do not need these items for the experiment.**

**Time:** 15 minutes, overnight for observation

## **What to Do:**

1. Place the eggs in the cups or jars.
2. Pour the chosen liquid over each egg until they are completely submerged.
3. Make an index card or chart to show which liquids are in which containers.
4. Have participants right down their predictions for what will happen to the eggs when left in the liquid.
5. Leave the cups to soak overnight. (If you leave them soaking too long, the shells will start to dissolve).  
If you are not able to meet back with a group the next day, you can do a sample of the experiment ahead of time to show participants what will happen.
6. Take out the eggs one at a time and observe the changes in each egg.
7. Students can try to brush off any residue on the eggs, first with water and then with tooth paste or baking soda, to see if it comes off easily or is more difficult.

## **Reflect:**

1. What did you notice about the eggs when you took them out of the solution?
2. What did each solution do to the eggs?
3. Were the eggs easy to clean?

## **Apply:**

1. What part of your body is the egg shell like?
2. Can you determine from this experiment what types of drinks are good for your teeth or not good for your teeth?
3. How are the egg shells different from your teeth?
4. What can you do to prevent your teeth from looking like some of the egg shells that you saw today?