Science Experiment

Apple Oxidation

Materials: a variety of liquids. Examples:

- plain water
- salt water (1/8 tsp of salt, 1 cup of water)
- sugared water (1 tbsp of sugar, 1 cup of water)
- honey water (1 tbsp of honey, 1 cup of water)
- pure lemon juice
- lemonade
- apple juice
- orange juice

Experiment:

1. Write down predictions about how each liquid will affect the oxidation (browning) process of the apple
2. Prepare and pour each liquid into its own bowl, cup, or baggie. Be sure to label the liquids and use the same amount of each.
3. Slice an apple into small pieces.
4. Immediately place one apple piece into each liquid. Make sure the liquid is covering the white part of the apple. Leave one piece of apple out of the liquid as the control variable.
5. After 3 minutes, remove the apples from the liquid and place them on a platter. Record observations.
6. After 6 minutes, observe the apples again and record any new observations.
7. After 9 minutes, observe the apples again and record any new observations.
8. After 12 minutes, observe the apples again and record any new observations.
9. Check predictions.