

Chemical Change: Oxidation



Lesson One: Turning Pennies Green

Objective: I will understand that copper can change color due to a chemical reaction. I will understand that oxidation is a chemical reaction.

<https://www.youtube.com/watch?v=oOCsabekU3Y>

<https://www.youtube.com/watch?v=9OgCjhAFCC0>



Experiment:

We will be examining pennies placed in a solution for several days.

1. Place pennies on a paper towel on a plate.
2. Pour vinegar on top of the pennies.
3. As the vinegar dries out (the next day), add more onto the plate.
4. Record your observations each day.

Each day write down your observations . Answer these questions:

- What do you think is happening?
- Why do you think it is happening?
- Is there a chemical or physical change?

READ: What Causes a Copper Penny to Turn Greenish Blue?



Name: _____

My Penny Experiment (Oxidation)

	Observation: Describe the color of the penny in the <u>vinegar</u> .	Prediction: What do you think the penny will look like tomorrow?	Observation: Describe the color of the penny in the <u>water</u>
Day 1			
Day 2			
Day 3			

Lesson Two: Reversing Oxidation

Objective: I will learn that tarnish on pennies can be cleaned up because of a chemical reaction. I will explore which solutions work best for cleaning the coins.



Experiment:

Drop the tarnished coins in a cup of soda.

Leave the coins in the mixture over night.

Pull the coins out and rinse well with water then place the pennies on paper towels.

Explain:

What do your coins look like now?

Record your observation using a piece of notebook paper.

What do you think happened?

There was a chemical reaction ?

