

## Lesson 8: Why is the Statue of Liberty Green?

### Activity 8.1

#### Purpose

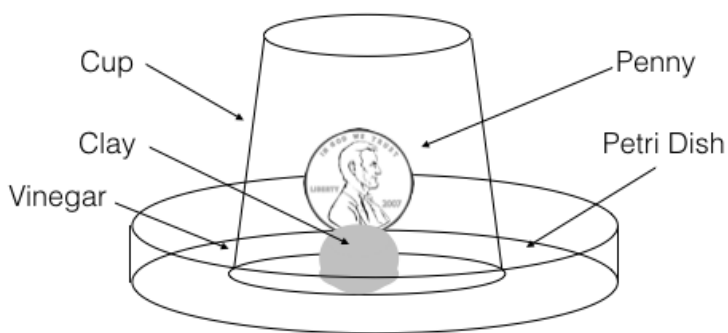
To build a working model of the Statue of Liberty and the acid rain which affects it.

#### + Safety

Vinegar is acetic acid and is moderately corrosive. Avoid getting the vinegar in your mouth or eyes.

#### Procedure

1. Place a piece of clay, about the size of a marble in the petri dish.
2. Stand a penny in the middle of the dish by pressing it into the clay.
3. Fill the petri dish about half full with vinegar.
4. Record your observations of the penny on the data table.
5. Place the cup upside down over the penny.
6. Place the dish in the back of the room, where the teacher has indicated, until the following class period.
7. After the model has been allowed to work for at least 24 hours, bring it back to your lab station.
8. Remove the cup and make observations about how the penny has changed.
9. Record your observations on the data table. Include all of the properties you can observe of the vinegar, copper, and the green substance on the penny.



#### Your Progress:

- Mastery
- Proficient
- Developing
- Beginning

## Data

Substance	Properties
Vinegar	
Copper	
Green Substance	

## Conclusion

Describe what happened in this activity with a word equation:

\_\_\_\_\_ + \_\_\_\_\_ → \_\_\_\_\_

What specific property changes occurred that convince you that this was a chemical reaction?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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