

# Super Sleuths – Div A

## Practice Event

### **TEST BOOKLET**

#### **GENERAL DIRECTIONS**

You will have 50 minutes to complete this event. All answers must be recorded on the google form in order to be graded. Be sure to click 'Submit' to see your score! You can print this part of the test if it helps you.

#### **Everything is NOT Awesome: Problems in Bricko-Land**

(We can't call those building blocks their real names due to Copyright issues)

All was calm and peaceful in Bricko-Land. Awesome Style was teaching Everyman Brickoski how to be a "Master Builder" by building a Bricko-mobile. They were eating snacks containing baking powder, cornstarch, and powdered sugar as they built the Bricko-Mobile. Awesome Style was also teaching Everyman how to build with slime made with Borax. Everyman and Awesome decided to take a break from building. After they returned from their break, they found the Bricko-mobile had been totally destroyed!

Evidence recovered from the destroyed Bricko-Mobile includes:

- **Powder X**
- **Powder Y**
- **Footprint**
- **Soil Sample X**

Three likely suspects were identified:

**Awful Cop** does NOT like anyone to have fun in Bricko-Land. Due to the stress of being an Awful Cop, he takes lots of antacids containing Baking Soda. He also eats lots of donuts made with flour and powdered sugar. He claims he was investigating who had left a mess of salt and vinegar potato chips (flavored with sodium acetate) when the Bricko-mobile was destroyed. **Powder A** was found on his uniform. **Soil A** was found on his feet. His footprints are shown below:



**Boss Business** thinks that training Everyman to be a master builder is a waste of time and money. He claims he was at a golf course at the time the Bricko-mobile was destroyed. He was eating snacks made with crystal sugar, powdered milk, and yeast. He also tries to eat healthy by taking Vitamin C Supplements. **Powder B** was found on his feet. The golf course has soil samples of **Soil B** and **Soil C**. His footprints are shown below.



**Rodney Badvest** was Everyman's best (or vest!) friend until Everyman decided to be a master builder. Rodney was very jealous of Everyman and Rodney has a reputation of being a Master Breaker (and not a Builder!). He claims he was washing his special vest (with detergent containing sodium carbonate) when the Bricko-mobile was destroyed. He also likes sour candies flavored with citric acid. **Powder C** was recovered from his clothes. **Soil C** was recovered from his feet. His footprints are shown below.



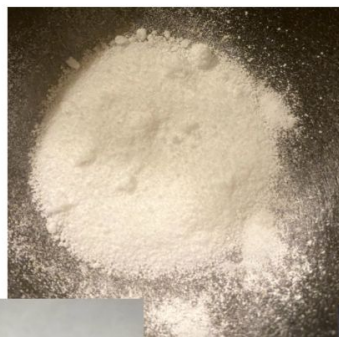
Super Sleuths, can you help Everyman and Awesome Style determine who destroyed the Bricko-mobile?

## Crime Scene Chemical Evidence

Below are the results from tests performed on each Powder. Use these pictures to help you identify the unknown Powders.



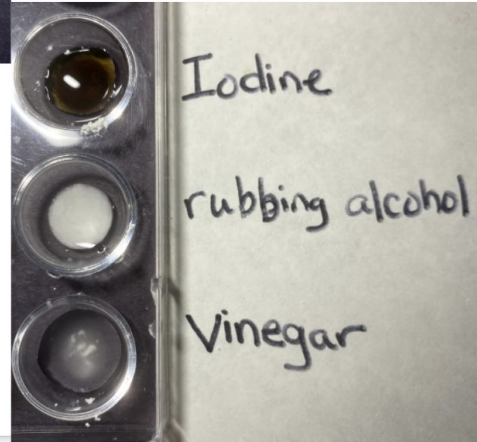
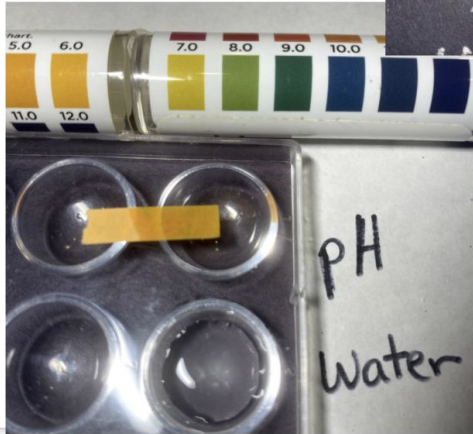
# Powder X



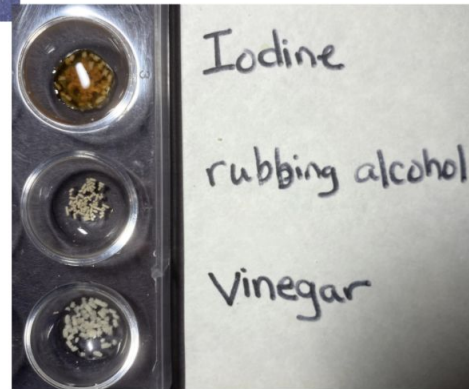
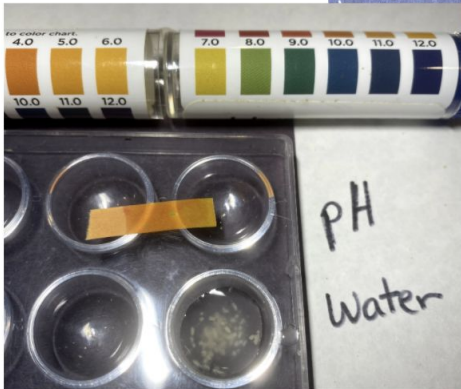
# Powder Y



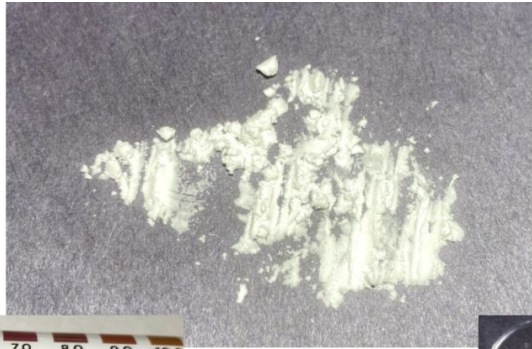
Powder A



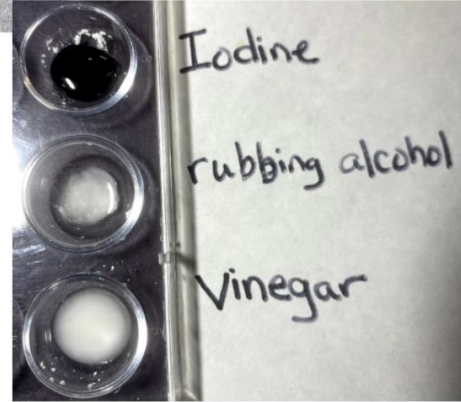
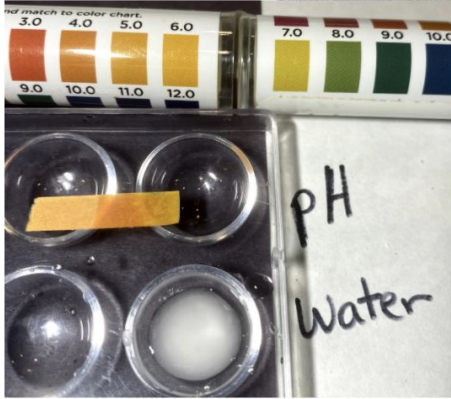
Powder B





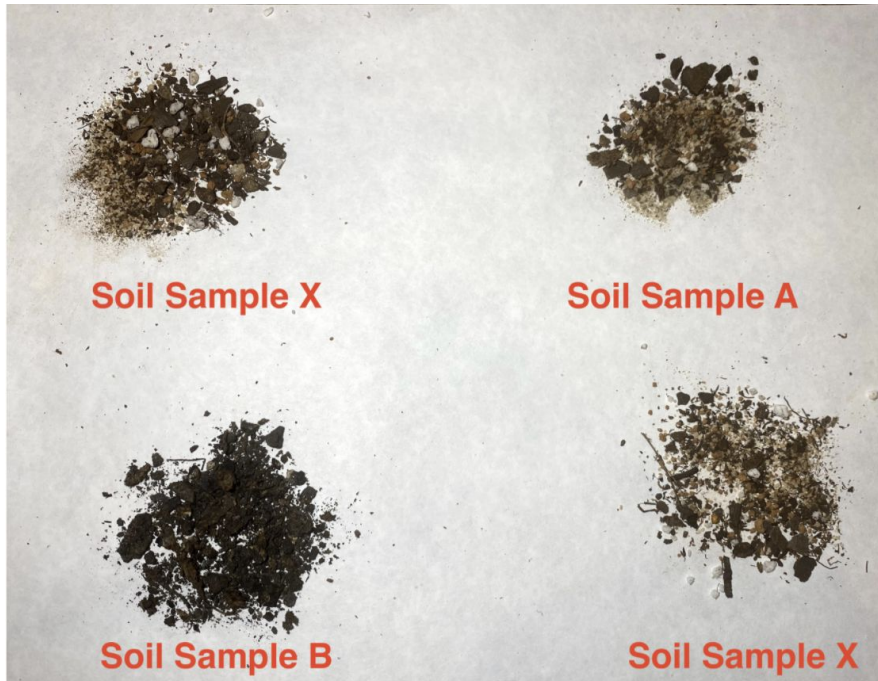


Powder C



**Crime Scene Physical Evidence**

**Soil Evidence.** Compare Soil X to Soils A, B, and C.



**Footprint Evidence.** A footprint was found near the destroyed Bricko-Moblie. A picture of that footprint is shown below.

