

There has been a robbery in Windsor and the police need your help to analyze the evidence. It is your task over the next few classes to use your knowledge of chemistry to help the police catch the suspect. Good luck!

What Did Rover Eat?

The kitchen was ransacked during the robbery and many white powders were spilled on the floor. The owner's dog, Rover, ate some of the powders and they are worried it might get sick. The police need you to identify the unknown substance consumed by Rover.

Materials:

- Goggles - Well plate - Toothpicks - Magnifying glass

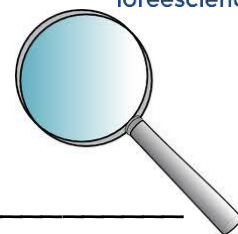
Procedure:

1. Place **small** amount of each white powder in the well plate (as shown on board)
2. Use the **magnifying glass** to examine each powder. Describe what you see (*colour, shape, size of pieces, clarity...*)
3. Add **5 drops of water** to each powder. Observe. Stir with toothpick & observe again. Record observations.
4. Repeat step 3 for each liquid
5. Wash well plate



White Powders	Physical Properties (using magnifying glass)	Reaction with...			
		Water	Universal Indicator	Vinegar	Iodine Solution
Icing sugar					
Flour					
Aspirin Powder					
"Mouse Poison"					
Unknown Powder Rover Ate					

SNC1L Forensic Chemistry – Lab #1



Questions:

1. Which unknown powder did Rover eat? Will he be okay?

2. What **physical properties** helped to identify the mystery powder?

3. What **reaction(s)** helped to identify the mystery powder?

4. Describe **one positive** test from for each of the 5 powders.

Icing Sugar - _____

Flour - _____

Aspirin - _____

Poison - _____

Unknown - _____

5. Why do you need to test the known powders before testing the unknown
