



Names: _____

Period: _____

Assigned on Wednesday, August 20, 2025

1.1 Demo: Paint Can Conundrum

Due Wednesday, August 20, 2025

Get into a group of two or three people. Watch the demonstration and answer the following questions.

Observations

Write down your observation of the apparatus to be used in the demonstration before the demonstration is carried out. Include observations about size, arrangements, unusual modifications, etc. Be sure to include a diagram of the apparatus.

Pre-demo:

Diagram:

Now write down your observations of what happened in the demonstration. Your observations should not include any explanations or interpretations. Be sure to include a diagram.

Post-demo:

Diagram:

Prior Knowledge

What do you know about the demonstration (substances involved, arrangement, chemical properties, etc.) that might help you understand what happened in the demonstration?

Hypothesis

A hypothesis is a temporary explanation of an observed phenomenon. Hypotheses are based on evidence and prior knowledge. They identify the variables involved in the experiment as well as offer an explanation for how or why the event occurred. One way to write a hypothesis is to phrase it as an "If (or When)...., then..., because...." statement. "If" or "When" the independent variable is changed, "then" the dependent variable will change in a certain way, "because" some underlying principle caused the change. Write a hypothesis for how/why this demonstration occurred the way it did. It should be written in 3rd person as this is the most utilized voice in scientific writing. All of your scientific writing should be written in 3rd person.
