

Name:
Period:
Date:



Nature of Science Review

Read the story:

Mr. Wizard is working with two Ector Jr. High students, Jeff and Suzy, in the lab. His mission for today is to demonstrate chemical changes. Mr. Wizard is wearing safety goggles. Before proceeding with the lab, he hands Jeff and Suzy their goggles. Suzy refuses because she doesn't want to mess up her hair, and she is wearing contact lenses. Jeff, however, wears his goggles.

Mr. Wizard pushes aside some books and papers on his desk to clear a small spot for his lab equipment. He is now ready to begin his first demonstration. Mr. Wizard hands Suzy a piece of calcite and gives Jeff two bottles of clear liquid.

Mr. Wizard says, "Jeff, hand me the hydrochloric acid."

To which Jeff replies, "Golly, Mr. Wizard, which one is the hydrochloric acid?" They are only labeled "A" and "B". Can I taste them to find out?"

"Wait!" exclaims Suzy, "I have an idea. The acid will react with the calcite, so lets' put several drops of each liquid on the calcite."

"Far out, Suzy" said Mr. Wizard, "Let's try it!" Suzy places the two drops of liquid A on the first piece of calcite and nothing happens. He then places three drops of liquid B on the second piece of calcite, and it immediately starts to fizz.

"That's swell, Mr. Wizard. Can we play again tomorrow?" asks Jeff.

"We sure can" says Mr. Wizard. "We'll leave this mess and worry about it tomorrow."

List as many lab safety rules being broken as possible:

Measurement

	Tool Used to Measure	Units used when measuring	Definition
Length			
Mass			
Volume			
Density			

Graphing

	What does it look like?	When do you use one?
Line Graph		
Bar Graph		
Circle Graph		

Graphing

	Definition	Where is it located on a Graph?
Title		
X Axis		
Y Axis		
Axis Labels		
Units		
Key		

Scientific Method

	Title	Definition
Step 1		
Step 2		
Step 3		
Step 4		
Step 5		
Step 6		
Step 7		