

Name: _____
 Period: _____

Basis Of Science
 Review

Basis of Science Review

Which of these two chemicals is more hazardous to your health? <i>Chloroform (higher #)</i> Which one is more flammable? <i>Acetone</i>	At-a-Glance Acetone Health—1 Flammability—3 Reactivity—2 Exposure—1 Storage—3	At-a-Glance Chloroform Health—2 Flammability—0 Reactivity—1 Exposure—2 Storage—2	First Aid Measures—Chloroform Call a physician, seek medical attention for further treatment, observation and support after first aid. Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately. Eye: Immediately flush with fresh water for 15 minutes. External: Wash continuously with fresh water for 15 minutes. Internal: Induce vomiting. After vomiting, give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.
What should you wear in the lab to protect against chemical spills? <i>apron</i> What should you wear to protect your eyes against splashing chemicals? <i>goggles</i> What should you wear to protect your feet from chemicals and falling objects? <i>closed-toed shoes</i>	Use the MSDS information above to answer the following: Which section tells you what to do if someone breathed in chloroform? <i>Inhalation (think "inhale")</i> Which section if someone drinks it? <i>Internal</i>		

Can this statement be supported by the scientific method?
 "I chocolate chip is the best ice cream flavor." *No*
 Why? *It is an opinion.*

Use the Scientific Method to figure out if a substance is a liquid or solid. *(The first step is done for you.)*
 Step 1: Observe: the substance changes shape.
 Step 2: hypth.: the substance is a liquid.
 Step 3: Exp.: does it change volume?
 Data: *No*
 Step 4: *concl: substance must be a liquid.*

Liquid	Color	Burns?	Volume	Reacts with Baking Soda?
A	Clear	<i>No</i>	35 mL	<i>Yes</i>
B	Clear	Yes	12 mL	No
C	Clear	<i>No</i>	46 mL	<i>Yes</i>
D	Clear	No	88 mL	No

Make a reasonable conclusion from the above data table.
liquid A+C are probably the same, (volume doesn't matter.)

Remember: 100cm = 1m so 1cm = 0.01m

How many millimeters is object A? *18 mm*
 How many millimeters is object B? *28 mm*
 How many centimeters is object A? *1.8 cm*
 How many centimeters is object B? *2.8 cm*
 How many meters is object A? *0.018 m*
 How many meters is object B? *0.028 m*

How many mL of water is there in the graduated cylinder?
2.1 mL

What is the curve of water called?
meniscus
 remember to read it at the bottom.

How much mass is shown above? *341.7 g* (don't forget units!)

Which of the two cylinders above is more precise?
The right one.
 Why? each mark = 0.1 mL. The left one, each mark = 2 mL.

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