Basis of Science Test Part I Test Review



All sections marked with a are considered essential concepts and must be completed to receive full credit on WS.

Which of these two chemicals is more hazardous to your health?

Which one is more flammable?

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.

Use the MSDS information above to answer the following: Which section tells you what to do if someone breathed in chloroform?

Which section if someone drinks it?

What should you wear in the lab to protect against chemical spills?

What should you wear to protect your eyes against splashing chemicals?

What should you wear to protect your feet from chemicals and falling objects?

Can this statement be supported by the scientific method?

"Chocolate chip is the best ice cream flavor."

Why?

Use the Scientific Method to figure out if a substance is a liquid or solid. (The first step is done for you.)

Step One: Observe: the substance changes shape.

Step Two:

Step Three:

Step Four:

Step Five:

Liquid	Color	Burns?	Volume	Reacts with Baking Soda? Yes	
Α	Clear	No	35 mL		
В	Clear	Yes	12 mL	No	
С	Clear	No	46 mL	Yes	
D	Clear	No	88 mL	No	

Make a reasonable conclusion from the above data table.



Object A			Object B			
			ШШП	ШШ		ШШ
9	1cm	2cm	30	cm	4cm	5cr

How many millimeters is object A?

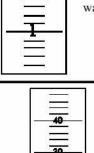
How many millimeters is object B?

How many centimeters is object A?

How many centimeters is object B?

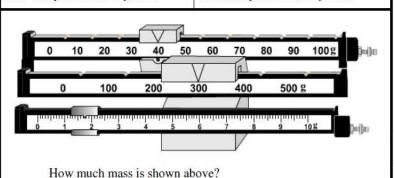
How many meters is object A?

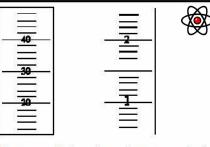
How many meters is object B?



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

What is the curve of water called?





Which of the two cylinders above is more precise?

Why?

Draw the metric prefixes chart here: Convert the following What is the correct order shortest to longest? 3.2 kilometers = _____ meters Kilogram milligram Megagram gram centimeter microgram 0.23 centimeters = _____ micrometers 0.12 liter = milliliters Which is bigger? How Big Are They Really? Mega- or kilo-? A centimeter is the width of: 2500 milliliters = _____ liters Centi- or milli-? The size of a liter is: 4500 grams = _____ kilograms Micro- or milli-? A meter is how many feet? 9 kilograms = _____ grams Centi- or micro-? A gram is about: Kilograms or grams? A millimeter is the width of: 54 megaliters = _____ centiliters Do the following conversions. Given: 1 in = 2.54 cm; 3.3 ft = 1 m; 12 in = 1 ft; 5,280 ft = 1 mi (mile)A. Convert 3.5 miles to feet B. Convert 6 ft to meters C. Convert 2.5 weeks to days

D. Convert 2500 seconds to minutes

F. Convert 60 mph (miles) to m/hr (meters)

E. Convert 18 m/sec to m/min