

Name: \_\_\_\_\_

Period: \_\_\_\_\_

## Basis of Science Test Part I Test Review

1.6

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

<p>Which of these two chemicals is more hazardous to your health? </p> <p>Which one is more flammable?</p>	<p style="text-align: center;">At-a-Glance Acetone</p> <p>Health — 1 Flammability — 3 Reactivity — 2 Exposure — 1 Storage — 3</p>	<p style="text-align: center;">At-a-Glance Chloroform</p> <p>Health — 2 Flammability — 0 Reactivity — 1 Exposure — 2 Storage — 2</p>	<p><b>First Aid Measures—Chloroform</b></p> <p><i>Call a physician, seek medical attention for further treatment, observation and support after first aid.</i></p> <p><b>Inhalation:</b> Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.</p> <p><b>Eye:</b> Immediately flush with fresh water for 15 minutes.</p> <p><b>External:</b> Wash continuously with fresh water for 15 minutes.</p> <p><b>Internal:</b> 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.</p>
<p>What should you wear in the lab to protect against chemical spills? </p> <p>What should you wear to protect your eyes against splashing chemicals?</p> <p>What should you wear to protect your feet from chemicals and falling objects?</p>			<p><i>Use the MSDS information above to answer the following:</i></p> <p>Which section tells you what to do if someone breathed in chloroform? </p> <p>Which section if someone drinks it?</p>

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?
A	Clear	No	35 mL	Yes
B	Clear	Yes	12 mL	No
C	Clear	No	46 mL	Yes
D	Clear	No	88 mL	No

Make a reasonable conclusion from the above data table.

Object A

Object B

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?

How much mass is shown above?

Which of the two cylinders above is more precise?  
Why?

Draw the metric prefixes chart here:



What is the correct order shortest to longest?



Kilogram milligram Megagram gram centimeter microgram

\_\_\_\_\_

Convert the following



3.2 kilometers = \_\_\_\_\_ meters

0.23 centimeters = \_\_\_\_\_ micrometers

0.12 liter = \_\_\_\_\_ milliliters

2500 milliliters = \_\_\_\_\_ liters

4500 grams = \_\_\_\_\_ kilograms

9 kilograms = \_\_\_\_\_ grams

54 megaliters = \_\_\_\_\_ centiliters

Which is bigger?



Mega- or kilo-?

Centi- or milli-?

Micro- or milli-?

Centi- or micro-?

Kilograms or grams?

How Big Are They Really?



A centimeter is the width of:

The size of a liter is:

A meter is how many feet?

A gram is about:

A millimeter is the width of:

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

E. Convert 18 m/sec to m/min

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