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$\qquad$

Safety- Know location and use of safety equipment: goggles; gloves; apron; fire extinguisher; fire blanket; Know procedures for: accidents; glass breakage.

MSDS— Know how to read basics of an MSDS sheet: chemical name; At-a-Glance; First Aid Measures; Fire Fighting Measures.
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 |
| :--- |
| $\quad$ Chloroform |
|  |
| Health -2 |
| Flammability -0 |
| Reactivity -1 |
| Exposure - 2 |
| Storage-2 |

What would you do if someone breathed chloroform?

Drank it?

[^0]Classification of Matter-Know definition of Matter; Be able to give examples of and tell difference between:
Mixtures and substances (non-mixtures); Homogenous and heterogeneous mixtures; Elements vs. Compounds.


Metrics-Be able to do metric conversions. Know the different basic units: meters; liters; grams.
Know the prefixes: Kilo-, Hecto-, Deka-, Basic Unit, Deci-, Centi-, Milli-. Know how big the common metric units are.

| Convert the following |  |
| :---: | :---: |
| 0.23 centimeters $=$ | ___ meters |
| 0.12 liter $=$ | milliliters |
| 2500 milliliters $=$ | __ liters |
| 4500 grams $=$ | kilograms |
| 9 kilograms $=$ | _ grams |
| $22 \mathrm{~cm}^{3}=$ | ___ g |


| What is the correct order shortest to longest? |  |  |
| :--- | :--- | :--- |
| Kilometer millimeter meter centimeter |  |  |
|  |  |  |

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:
$\qquad$
$\qquad$

States of Matter—Know the four states of matter: Solid; Liquid; Gas; Plasma.
Of the three most common states (Solid; Liquid; Gas) know the properties of each: shape; volume; compressibility; speed of molecules; distance between molecules.
Know the names of the temperatures at which a substance changes state: freezing point, etc.

| What are the differences between solids <br> and liquids? | What are the differences between <br> liquids and gases? | The temperature at which a solid turns to <br> liquid is: <br> The temperature at which a liquid turns <br> to a gas: <br> What are the similarities between solids <br> and liquids? <br> liquid: <br> The temperature at which a liquid turns <br> to a solid: <br> When a solid turns straight to a gas: |
| :--- | :--- | :--- |
| What are the similarities between <br> liquids and gases? |  |  |

Know and be able to list the 6 major steps of the Scientific Method.
Be able to apply the Scientific Method to tell the difference between states of matter or different kinds of matter.

| Use the Scientific Method to determine if an <br> object is a mixture or a substance. Make sure to <br> name each step as you go. |  |  |
| :--- | :--- | :--- |
| 1. | 4. |  |
| 2. | 5. |  |

With precision be able to measure distance with the meter stick; volume with the graduated cylinder; mass with the balance scale. Be able to calculate area and volume with formulas and with the displacement method.
Be able to use the indirect method of measuring small or large objects.

On side of a cube measures 3 cm . Find its volume.
You put an object into 25 mL of water. Afterward the graduated cylinder reads 32 mL of water. What is the volume of the object?

A book measures 10 cm by 12 cm . Find its surface area.

You are trying to find the mass of a kernel of corn. If 20 kernels read 12 grams, how much mass does one kernel have?


[^0]:    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.

