

Thursday Nov 17

- 1) go over answers to HW
- 2) Safety Symbols

Warm-Up:

For each of the following list whether it is chemical or physical

Copper turning green in the air

Popsicle Melting

Water Boiling

baking a cake

For each of the following list if it is an element or compound

NaCl

H₂

CaCO₃

Cl₂

C₆H₂₂O₁₁

Answers p. 175 #1, 2, 4, 5

#1. a) soapy water = mixture because it contains more than one substance
b) hydrogen gas = pure substance because it is the name of an element
c) sodium chloride = pure substance because it is the name of a compound, which contains two elements which are pure.

#2. a) hydrogen = element
b) potassium carbonate = compound because it contains more than one kind of element (potassium, carbon and oxygen)
c) water = compound because it contains more than one kind of element (hydrogen and oxygen)
d) Mg = element

#4. a) gasoline is a clear pink solution = physical property
b) gasoline burns in air = chemical property
c) water boils at 100°C = physical property
d) electric current can split water into hydrogen and oxygen gases = chemical property

#5. a) chemical change
b) reactants = aluminum metal, hydrobromic acid
products = hydrogen gas, aluminum bromide



Hazardous Product Symbols



Canada uses two standard sets of symbols to identify hazardous materials.

The **Hazardous Household Product Symbols (HGPS)** were developed for common products used around the home. A combination of a picture and outline shape shows what the danger is and to what degree it is dangerous.

The **Workplace Hazardous Materials Information System (WHMIS)** was developed for products found in work places or science laboratories. Many workers must undergo WHMIS training every year.

Both sets of symbols provide warnings about the hazards of using such products, and precautions to take while using such products.

Hazardous Household Product Symbols



DANGER



WARNING



CAUTION



POISON



CORROSIVE



FLAMMABLE



EXPLOSIVE

Did you know that the warning symbols are based on shape? The more corners a symbol has, the greater the risk. Read the label to find out how to use the product safely and what precautions to take.

WHMIS Symbols



Compressed gas



Dangerously reactive material



Materials causing other toxic effects



Flammable and combustible material



Biohazardous infectious material



Oxidizing material



Materials causing immediate and serious toxic effect



Corrosive material