

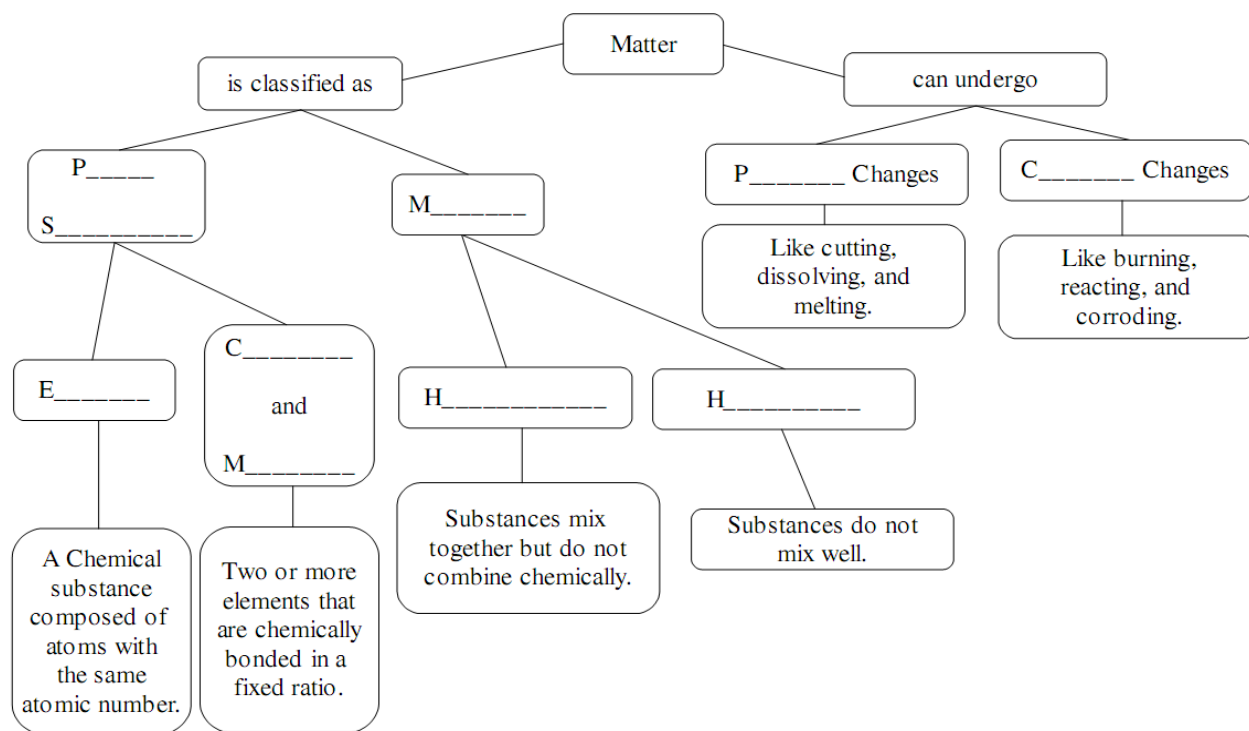


Name: \_\_\_\_\_

02/22/09

### Assignment #10: Intro to Solutions

1. Complete the diagram:



2. What are the four types of mixtures? Classify them as homogeneous or heterogeneous.

3. Observe the gummy bears that have been soaked in different solutions. Record your observations in the table below:

Solution:	Corn Syrup 100%	Corn Syrup 50%	Corn Syrup 25%	Tap Water	Distilled Water
Observations:					

4. How does the size of the gummy bear correspond to the amount of sugar that has been dissolved in the liquid?



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5. Define the following terms:

a. Solvent -

b. Solute -

c. Dissolve -

6. You are making kool-aid with cold water, but find it hard to get all the powder to dissolve. What are some of the things you could do next time to make the powder dissolve faster?

7. Which of the following would make a gummy-bear dissolve in (pure) water faster?

- a. adding sugar to the water.
- b. adding salt to the water.
- c. cooling the water to near freezing.
- d. chopping the gummy bear into small pieces.

7. Which would it be easiest to dissolve salt in?

- a. Distilled Water
- b. Tap Water
- c. Lake Water
- d. Ocean Water

8. If you want to make Iced Tea that is as sweet as possible, when will you be able to dissolve the maximum amount of sugar in your tea?

- a. Before boiling the water.
- b. Immediately after boiling the water and adding the tea-bags.
- c. When the tea has cooled, before placing it in the refrigerator.
- d. After adding the tea to a glass with ice.