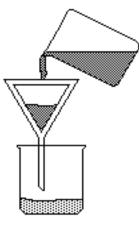
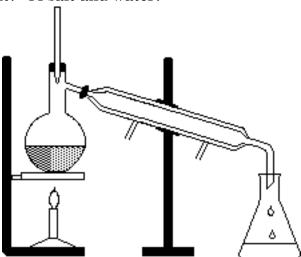
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## **Chemistry – Unit 4 Worksheet 1**

1. Identify the separation techniques pictured below. Which technique would be useful to separate a mixture of sand and salt? Of salt and water?





- 2. Explain why the technique at left would not be effective in separating a mixture of salt and sugar.
- 3. Draw particle representations for the following:

A mixture of iron and sulfur	A compound of iron and sulfur

4. Explain why a magnet can separate iron atoms from the mixture but not from the compound.

5. Consider the four containers below.  $\infty$  $\infty$ В a. Which of these are mixtures? \_\_\_\_\_ pure substances? \_\_\_\_\_ b. Which contain only compounds? \_\_\_\_\_ only elements \_\_\_\_\_ 6. Consider the four containers below. Α В a. Which of these are mixtures? \_\_\_\_\_ pure substances? \_\_\_\_\_ b. Which contain only compounds? \_\_\_\_\_ only elements \_\_\_\_\_ 7. Consider the four containers below. В a. Which of these are mixtures? \_\_\_\_\_ pure substances? \_\_\_\_\_ b. Which contain only compounds? \_\_\_\_\_ only elements \_\_\_\_

U4 ws1 v1

8. Which of the containers in #7 contain a gas? \_\_\_\_ a liquid \_\_\_\_ a solid \_\_\_\_