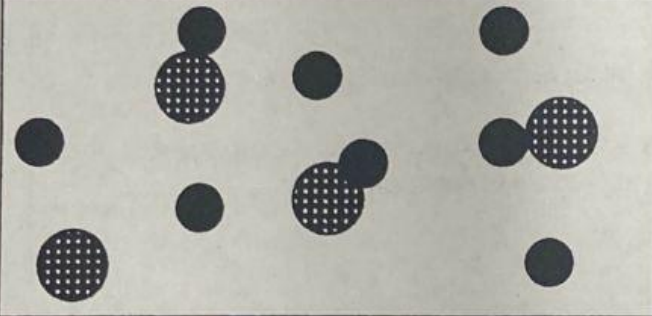
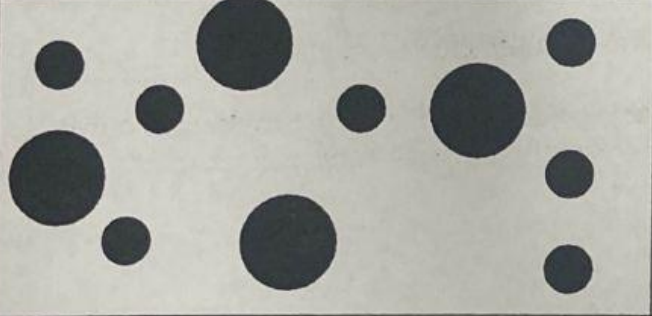
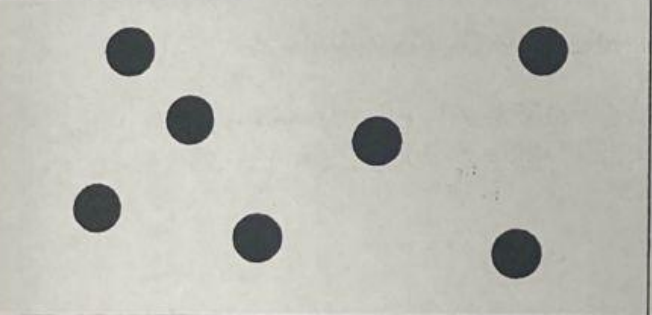
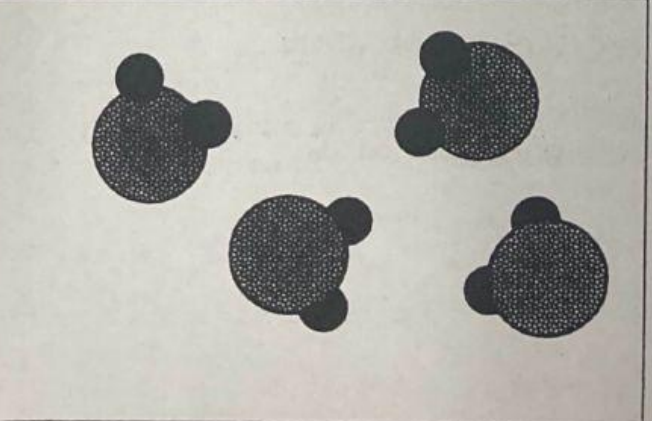


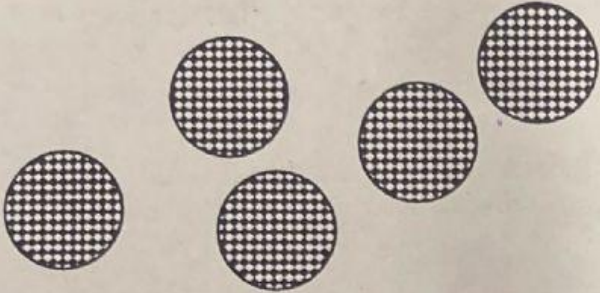
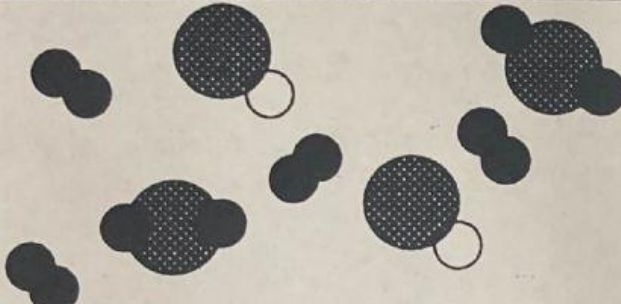
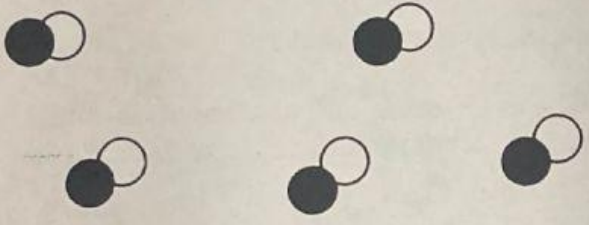
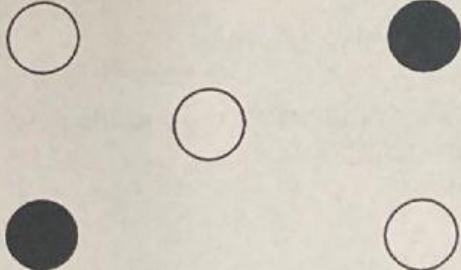
Name _____
Chemistry

Date _____
Amityville Memorial High School

Models: Mixtures vs. Substances

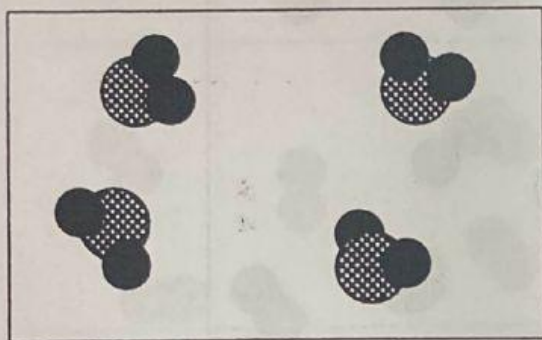
1. Directions: Look at the following models. Identify each as a substance or mixture. Then describe its composition as elements only, compounds only, or elements & compounds.

	Choose: Substance or Mixture _____ Describe as elements only, compounds only, or elements & compounds. _____
	Choose: Substance or Mixture _____ Describe as elements only, compounds only, or elements & compounds. _____
	Choose: Substance or Mixture _____ Describe as elements only, compounds only, or elements & compounds. _____
	Choose: Substance or Mixture _____ Describe as elements only, compounds only, or elements & compounds. _____

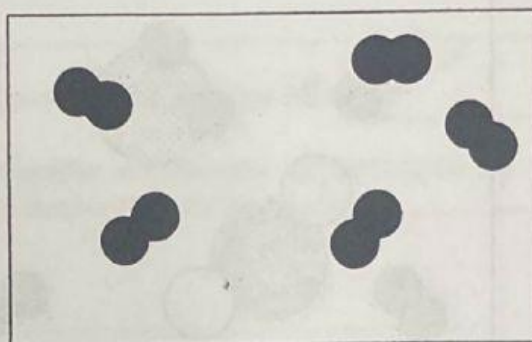
	Choose: Substance or Mixture _____ Describe as elements only, compounds only, or elements & compounds. _____
	Choose: Substance or Mixture _____ Describe as elements only, compounds only, or elements & compounds. _____
	Choose: Substance or Mixture _____ Describe as elements only, compounds only, or elements & compounds. _____
	Choose: Substance or Mixture _____ Describe as elements only, compounds only, or elements & compounds. _____
	Choose: Substance or Mixture _____ Describe as elements only, compounds only, or elements & compounds. _____

2. Match each description (a-d) with the appropriate diagram. Identify if it represents an element, compound, or both. Defend your answer.

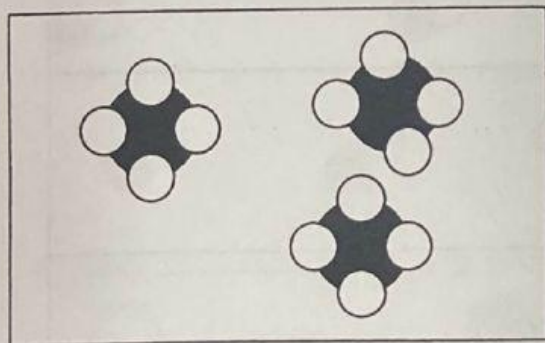
- a. $\text{N}_2(\text{g})$
- b. $\text{CH}_4(\text{g})$
- c. Mixture of gases
- d. $\text{H}_2\text{O}(\text{g})$



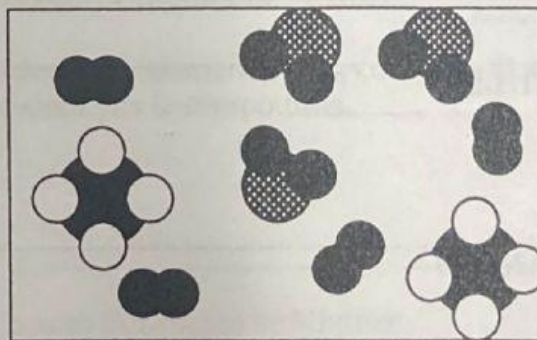
Description (choice a-d): _____
 Elements, Compounds, or both _____
 Defend: _____



Description (choice a-d): _____
 Elements, Compounds, or both _____
 Defend: _____

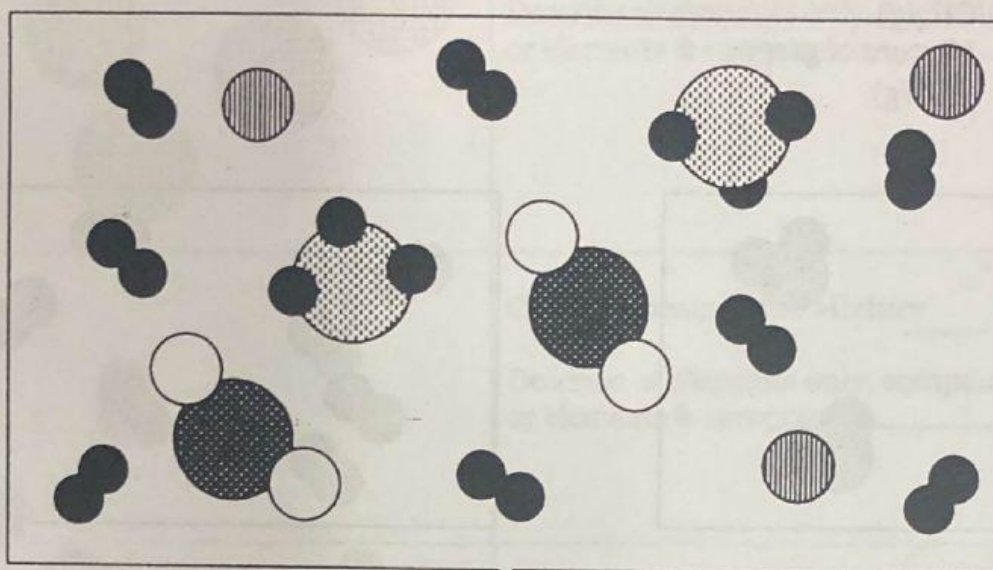


Description (choice a-d): _____
 Elements, Compounds, or both _____
 Defend: _____



Description (choice a-d): _____
 Elements, Compounds, or both _____
 Defend: _____

3. The following diagram represents a mixture of substances. Classify the components of the mixture as monatomic elements, diatomic elements, molecules, substances, or compounds. Then draw each substance in the correct box.



MONOATOMIC ELEMENTS

DIATOMIC ELEMENTS

MOLECULES

SUBSTANCES

COMPOUNDS