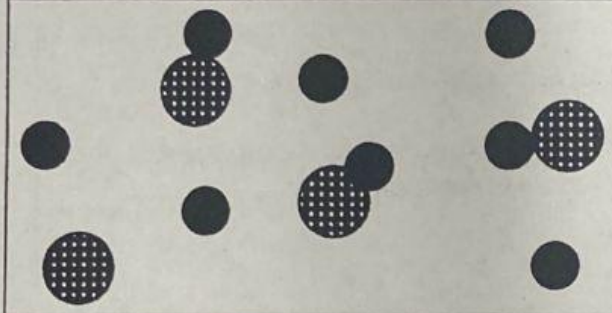
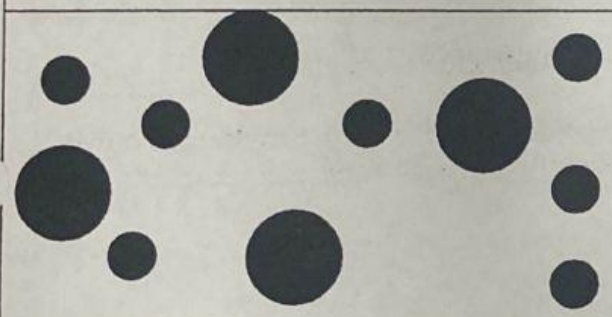
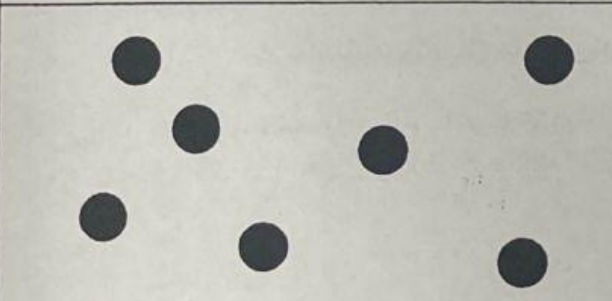
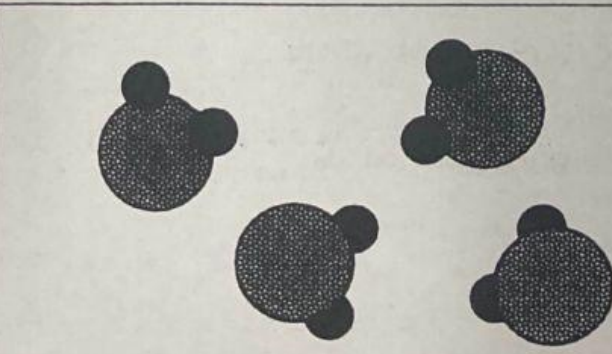
Name _____ Date _____

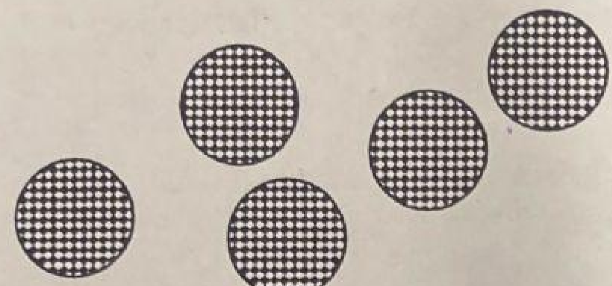
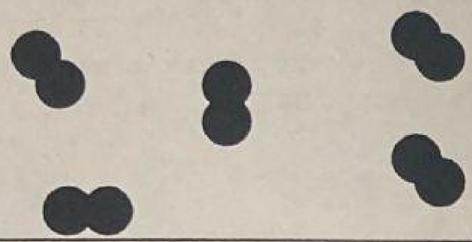
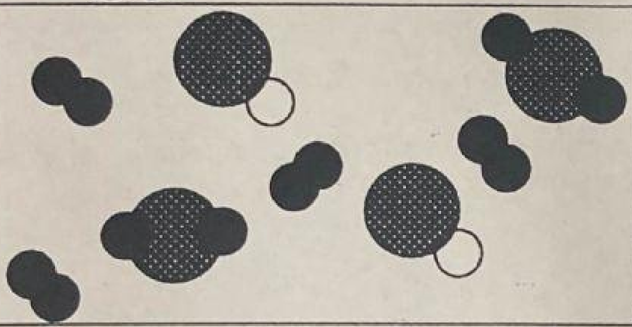
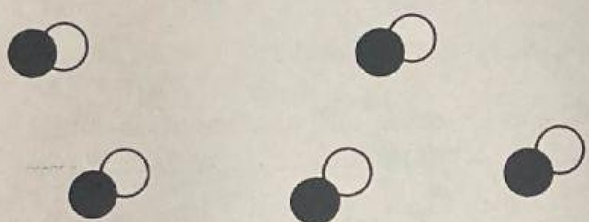
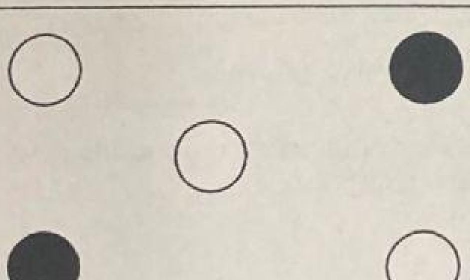
Chemistry Amityville Memorial High School

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 and 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. _____

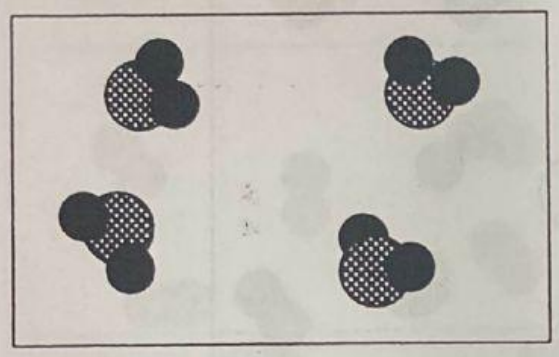
LIVEWORKSHEETS

	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. ________

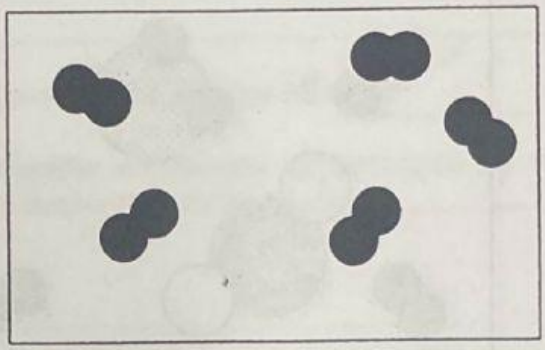
LIVEWORKSHEETS

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

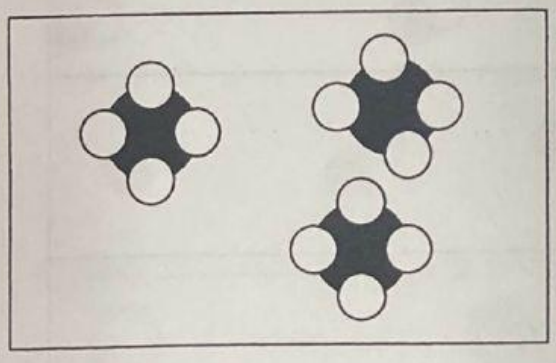
a. $N_2(g)$
b. $CH_4(g)$
c. Mixture of gases
d. $H_2O(g)$



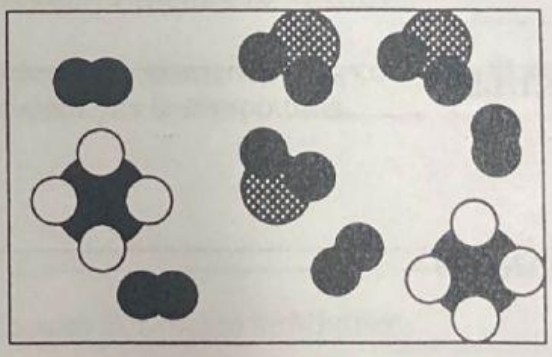
Description (choice a-d): _____
Elements, Compounds, or both_____
Defend: _____
_____



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



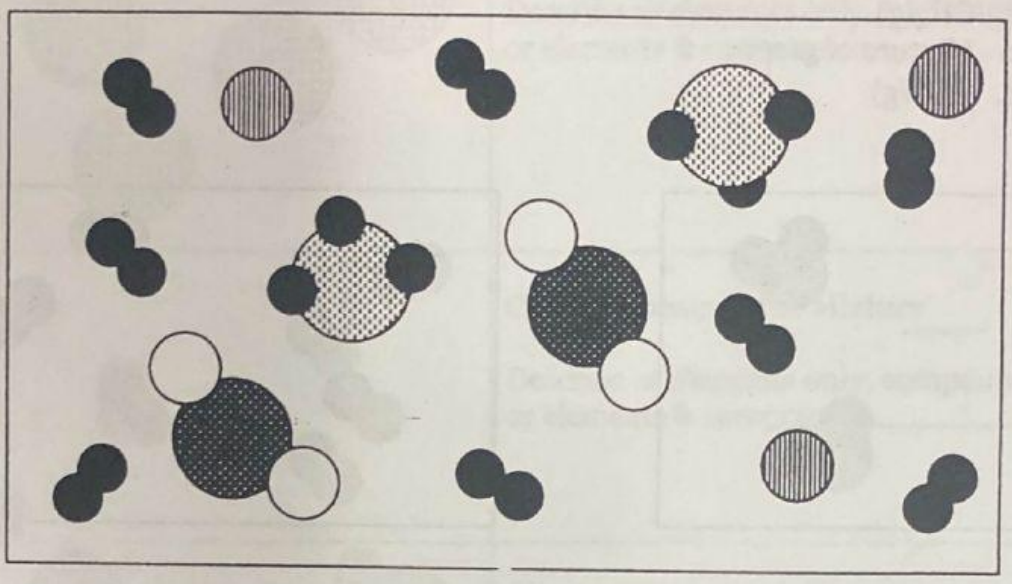
Description (choice a-d): _____
Elements, Compounds, or both_____
Defend: _____
_____



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

LIVEWORKSHEETS

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

LIVEWORKSHEETS