

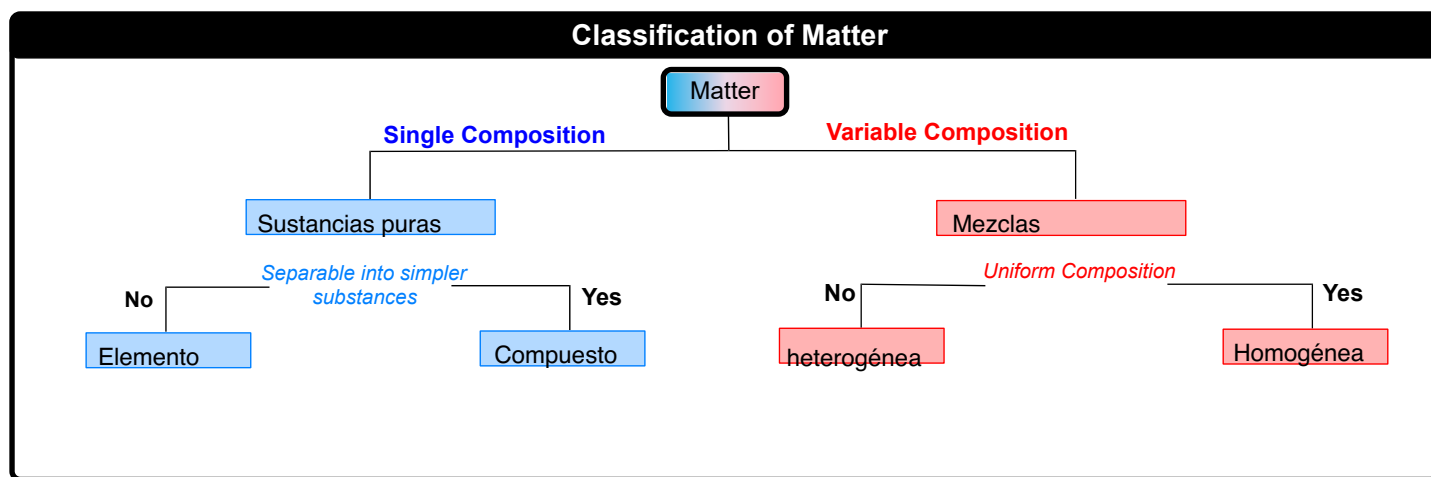


Study Prep

Available on Pearson+

CONCEPT: CLASSIFICATION OF MATTER

- **Chemistry:** the study of matter and the changes it undergoes, with the Átomo being its basic functional unit.
 - **Matter:** anything that occupies Espacio and has Masa.
 - Classified into 3 types:
 - Elemento: The simplest type of matter that is composed of 1 kind of atom.
 - Compuesto: Matter composed of 2 or more different elements that are chemically bonded together.
 - Mezcla: Matter composed of elements and/or compounds that are physically mixed together.



EXAMPLE: Consider the following substances:

- I. Gatorade II. Crystalline sugar III. Lead wire IV. Salsa

- I and II are pure substances, IV is a homogeneous mixture.
- I and II are homogeneous mixtures.
- II and III are pure substances, I is a homogeneous mixture.
- None of the above is true.

PRACTICE: Which of the following statements is true?

- Compounds can only be broken down by chemical means.
- Gasoline is a pure substance.
- Only elements are pure substances.
- Milk is an example of a homogeneous mixture.
- Concrete is an example of a homogeneous mixture.

CONCEPT: CLASSIFICATION OF MATTER

PRACTICE: Choose the homogeneous mixture from the list below.

- a) Soda
- b) Smog
- c) Trail mix
- d) Bowl of cereal with milk
- e) Pure oxygen and nitrogen gas

PRACTICE: Choose the homogeneous mixture from the list below.

- a) Chicken noodle soup
- b) A cup of black coffee
- c) Sand (unfiltered)
- d) Fruit salad
- e) Seawater (unfiltered)

PRACTICE: Classify each of the following as an element, compound or mixture.

- a) Ammonia, NH_3 **Compuesto**
- b) Gold bar **Elemento**
- c) Orange juice **Mezcla**
- d) Wine **Mezcla homogénea**
- e) Saline solution **Mezcla homogénea**