

Pure Substances, Mixtures and Solutions

Instructions

Use your notes and your textbook (pg. 100-115) to help you complete the following:

Classifying Pure Substances

Classify each of the following substances as either a pure substance or a mixture. For the pure substances, label them as either an element or a compound. For the mixtures, label them as either a “mechanical” mixture (heterogeneous) or a mixture.

Scrambled Eggs

Sugar

Rubbing Alcohol

Baking Soda

Aluminum

Cooking Oil

Food Colouring

Mouthwash

Quartz

Cement

Fresh-squeezed orange juice

Ginger Ale

Toothpaste

Salt

Sand

Iron

Raisin Bread

Oxygen

Air

Gold

Carbon Dioxide

Soil

Black Coffee

“Double-double” coffee

Elements

Pure Substances

Compounds

Mechanical

Mixtures

Solutions

4. Read the descriptions below. In the space provided, indicate whether each mixture is a mechanical mixture (M) or a solution (S).
- a. The different substances in this mixture can be distinguished from each other with the unaided eye or a magnifying glass. _____
 - b. The substances in this mixture cannot be separated by filtering.

 - c. When this mixture is left to stand undisturbed, the substances do not separate by floating to the top or sinking to the bottom. _____
 - d. This mixture appears cloudy or opaque. You cannot see through it clearly.
