

S8P1. The structure and properties of matter.

a. Develop and use a model to compare and contrast pure substances (elements and compounds) and mixtures.

Elements, Compounds & Mixtures Activity



Chemically	2 or more	Element	1 type	Physically
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Another name for a pure substance is an _____ like copper, silver, hydrogen, or oxygen. The difference between elements and compounds is that elements or pure substances only contain _____ of atom, while compounds contain _____ types of elements. The difference between compounds and mixtures is that compounds are substances that can be formed by _____ combining two or more elements. Mixtures are substances that are formed by _____ mixing two or more substances together.

Part 1: Determine if the following examples are elements or compounds.



Part 2: Examine the gold chart. Answer the questions based upon your chart analysis.

KARAT RATING	PERCENTAGE OF GOLD PRESENT	PERCENTAGE OF OTHER METALS PRESENT
24	100%	0%
21	91.6%	8.4%
18	75%	25%
14	58.5%	41.5%
10	41.7%	58.3

- Which type of gold costs the most? _____ Why? _____
- Which type of gold costs the least? _____ Why? _____
- What is the relationship between the pureness of gold and its price? _____

Part 3: Determine whether the following items are heterogeneous or homogeneous mixtures.



What is the difference between homogeneous and heterogeneous mixtures. _____

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