Learning Target #1: I can describe and explain the difference between pure substances and compounds.
Learning Target #2: I can describe and explain the difference between heterogeneous and homogeneous mixtures.

Elements vs. Compounds & Heterogeneous vs. Homogeneous Mixtures Video Notes

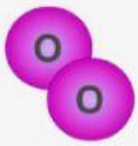
1. A _____ substance (_____) is pure because it only consists of ____ thing. A pure substance or _____ cannot be _____ into other substances. Another name for a pure substance is an _____.

2. A _____ is a combination of _____ things that can be _____ down into other substances.

3. What is the difference between a pure substance (element) and a compound? _____
_____

Water (H_2O)

Helium

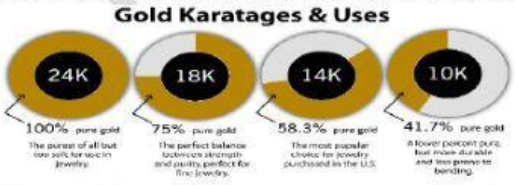


Oxygen (O_2)

_____ _____ _____

4. Write whether the following substances above are pure substances (elements) or compounds.

Use the following diagram below to answer the questions that follow.



5. Which gold karat is the cheapest? _____ Why? _____
_____

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6. Which gold karat is the most expensive? _____ Why? _____

_____

7. Which of the gold karat is a pure substance/element? _____ Which ones are compounds? _

_____

8. Helium and oxygen contain only _____ atom. Water contains _____ kinds of atoms.

9. Why is water considered to be a compound? _____

Quick Check for Understanding! Determine if the following are elements or compounds. You have 2 minutes.

_____ _____ _____ _____ _____ _____

10. A _____ mixture is a mixture of substances blended so thoroughly that you _____ see individual substances. Every sample of the mixture will show the _____ amounts of each substance. Homogeneous mixtures can be _____ mixtures.

Quick check for understanding! Take one minute to write down at least 5 homogeneous mixtures.

_____

11. A heterogeneous mixture is a mixture in which the composition is not uniform or the _____ the mixture. Why are vegetable soup and salad examples of heterogeneous mixtures? _____

_____

Quick Check for Understanding! Take one minute to write 5 other types of heterogeneous mixtures.

_____

12. In summary, pure substances (elements) are made up of only _____ of _____, while compounds are made up of _____ elements chemically bonded together. You cannot ____ an _____ down any further, but you can break a _____ into its individual components. Heterogeneous mixtures are not thoroughly _____, so you can see and pick out an _____ part of the mixture. _____ Mixtures are blended so thoroughly, it looks like _____ Homogeneous mixtures are _____ or the same throughout their makeup just like _____

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