

Chemistry Worksheet: Matter #1

1. A mixture (**is/is not**) a chemical combining of substances.
2. In a compound the (**atoms/molecules**) are (**chemically/physically**) combined so that the elements that make up the compound (**retain/lose**) their identities and (**do/do not**) take on a new set of properties.
3. The smallest identifiable unit of a compound is a(n) _____, which is made up of _____ which are chemically bonded.
4. True or False: A mixture is always made up of a combination of elements.
5. In a mixture, the substances (**lose/retain**) their identities.
6. In a mixture the substances involved (**can/cannot**) be separated by a simple physical process.
In a compound the elements involved (**can/cannot**) be separated by a simple physical process because the elements are (**physically combined/chemically bonded**).
7. True or False: An element can be broken down into a simpler substance.
8. The smallest identifiable unit of an element is a(n) _____.
9. From the following list of substances, circle the ones that are elements:

silver	carbon dioxide	wood alcohol	chromium
water	hydrogen	carbon	nitrogen
oxygen	gold	sugar	salt
air	sulfur	magnesium	nickel
10. Explain how to separate the sugar and water in a solution of sugar and water.
11. How would you separate a mixture of alcohol and water?
12. How would you separate sand and water?