*Matter and Its Properties: What Makes up Matter*

video guide

All matter is made up of \_\_\_\_\_\_\_\_. An atom is the \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ of complete matter. What do \_\_\_\_\_\_\_\_\_ in a balloon, \_\_\_\_\_\_\_\_\_ in a can and \_\_\_\_\_\_\_ in a pipe have in common? They all contain \_\_\_\_\_\_\_\_\_. An element is a \_\_\_\_\_\_\_\_\_ made of only \_\_\_\_ \_\_\_\_\_\_ of matter or one kind of \_\_\_\_\_\_\_.

There are over 100 known elements. These are organized in a chart called the Modern \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_. A chemical \_\_\_\_\_\_\_\_\_ is one or two \_\_\_\_\_\_\_\_\_ used to \_\_\_\_\_\_\_\_\_\_ the name of an element. You know already oxygen is symbolized by the letter \_\_\_\_. Hydrogen is \_\_\_\_. Gold is \_\_\_\_. An advantage to writing the chemical symbol is that it’s \_\_\_\_\_\_\_\_ to write one or two letters instead of the whole word.

Sometimes in nature matter exists as a pure substance but more often elements \_\_\_\_\_\_\_\_\_\_\_ with other elements to form substances. For example, glass is made of \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. A \_\_\_\_\_\_\_\_\_\_ is matter made up of two or more \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_. In a compound different elements combine to form a \_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_. Water is a common substance made of \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_. Some of the foods we eat such as \_\_\_\_\_\_\_ are made of many elements.

Salt is a compound made up of \_\_\_\_\_\_ and \_\_\_\_\_\_\_. A \_\_\_\_\_\_\_\_\_\_\_ of salt is the smallest piece of matter that still has the \_\_\_\_\_\_\_\_\_\_ of the \_\_\_\_\_\_\_\_\_\_ matter. If we were to break the molecule apart we \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ salt but two \_\_\_\_\_\_\_\_\_\_\_\_\_ atoms. \_\_\_\_\_\_\_\_\_ molecules must have \_\_\_\_\_\_ atoms of hydrogen and \_\_\_\_\_\_ atom of oxygen.

The symbol for the element sodium is \_\_\_\_ and the symbol for chlorine is \_\_\_\_. The chemical formula for salt is \_\_\_\_\_\_\_. A chemical \_\_\_\_\_\_\_\_\_ is a \_\_\_\_\_\_\_ of symbols for a compound that shows the \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_ of atoms. For water, to show there are \_\_\_\_\_ hydrogen atoms, we write the number \_\_ under the \_\_\_.

When a \_\_\_\_\_\_\_\_\_ is made of two or more \_\_\_\_\_\_\_\_\_\_ elements the \_\_\_\_\_ compound is \_\_\_\_\_\_\_\_\_\_\_ than the \_\_\_\_\_\_\_\_\_\_ elements. Not all compounds combine to form new compounds. Vegetable soup is a \_\_\_\_\_\_\_\_\_\_. A mixture is matter made up of \_\_\_ \_\_\_ \_\_\_\_\_ different substances but \_\_\_\_\_\_\_\_\_\_\_ in a mixture \_\_\_\_\_\_ change.

A \_\_\_\_\_\_\_\_\_\_ is a mixture in which \_\_\_\_\_\_\_\_\_\_ of different substances are \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_.

Video quiz answers

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_