

True or False. For any statements you believe are false, change the words in the statement that would make it true.

1. An element is a pure substance that contains only one type of atom. **TRUE**
2. Pure gold is made up of 3 kinds of atoms. **FALSE**
3. If a scientist breaks up a sample of a substance she would find many of the same type of atoms. **TRUE**
4. Elements are made when atoms are combined. **FLASE, (that's a molecule)**
5. An atom is the smallest particle of matter that retains the properties of the element. **TRUE**
6. A block of carbon is broken down into small pieces. Each piece of the carbon is a different kind of atom. **FALSE, they are all carbon atoms.**
7. The smallest unit of matter is an atom. **TRUE**
8. When an atom is bonded to another different atom it is called an element.  
**FALSE (that is a compound, which we haven't learned about yet).**
9. Anything that has mass and volume is made out of atoms. **TRUE**
10. Most of the mass of an atom is found in the electron layers. **FALSE**
11. The nucleus of an atom contains protons and neutrons. **TRUE**

12. Electrons are found in layers outside the nucleus. **TRUE**
13. The atomic number of a substance tells how many protons an element has. **TRUE**
14. The number of protons an element has can vary. **FALSE**
15. The atomic mass of an element can often be found below its chemical symbol on the periodic table. **TRUE, look for the number with decimals.**
16. In the periodic table, the atomic number is found above the chemical symbol.  
**TRUE**
17. All chemical symbols have one letter. **FALSE, they can have one or two letters and are sometimes called the "Element Symbol."**
18. The chemical symbol for neon is Ne. **TRUE**
19. Protons have a positive charge, while electrons have a negative charge. **TRUE**
20. When drawing an atom, we draw the same number of electrons as protons. **TRUE**