

Physical Science in Action- The Periodic Table Name _____
Date _____
Period _____ page _____

Directions: As you watch the video, fill in the word or words that best completes each sentence.

1. Atoms are different from one another simply because they have different numbers of _____, _____, and _____.
2. A substance made up of atoms all with the same numbers of protons is called an _____.
3. One of the most important things is to know how easily it can combine or _____ with other elements.
4. The first shell, the one closest to the nucleus can hold _____ electrons.
5. The most electrons that can be held in an outer shell is _____ electrons.
6. How easily an element can bond with other elements is determined by the number of _____ in the outer shell.
7. The roadmap of the elements is called the _____.
8. Mendeleev grouped the elements according to similar _____.
9. The information about an element that the squares on the periodic table gives us:
 - a. _____ a one or two letter code that represents the name of the element.
 - b. _____ the number of protons in the atom in the element.
 - c. _____ the average weight of one atom of the element. It's found by adding the _____ plus _____.
10. There are 7 rows across called _____. Every element in the same row has the same _____ for its electrons. In the second period the elements all have _____ shells for their electrons.
11. Elements in the same period are grouped together because of the number of _____ they have for their electrons.
12. The columns that run up and down are called _____. There are _____ groups.
13. Every element in a group the same number of electrons in _____.
14. The elements within each group have similar _____.
15. Some of the families of metals on the periodic table are the:
 - a. _____ in group 1. One electron in outer shells.
 - b. _____ in group 2. They are very reactive.
 - c. _____ take up groups 3 - 12 on the periodic table.
 - d. _____ aluminum, lead, and tin.
 - e. _____ uranium and plutonium
16. The _____ have properties of metals and nonmetals
17. The _____ are nonmetallic and include Cl, F and I. They are characterized by a strong smell.
18. The _____ are in Group 18. These gases are commonly used in lighting. They all have full outer shells.

