

Chapter 6 Summary Worksheet

Name: _____

Each of the following letters represents one of the first 20 elements. The groups of two, three, or four letters each represent elements of one column. (For example, you would find elements E, O, S, and U in the same column of a periodic table, though not necessarily in that order.)

CNJ, ADG, EOSU, BZ, QT, FH, KV, IM

Applying what you learned about the Periodic Table and periodic trends in Chapter 6, use the following clues to fill in the blank Periodic Table below with the correct letters. (Note that the d and f blocks have been omitted from the blank Periodic Table.)

1. A is a gas with no assigned electronegativity
2. B is a halogen
3. E has 1 proton
4. O, S, and U are alkali metals
5. U has the largest atomic size in its group
6. S has the smallest atomic size in its group
7. B has a greater atomic mass than Z
8. A has 2 protons
9. D has 8 more electrons than G
10. J has a smaller atomic radius than N
11. Q and T have 3 valence electrons
12. Q has a lower ionization energy than T
13. K has 6 electrons
14. C is an alkaline earth metal with the highest ionization energy in its group
15. F has a lower electronegativity than B but higher than I
