

## Periodic Table Puzzle

Name \_\_\_\_\_

Period \_\_\_\_\_

Date \_\_\_\_\_

1							18
	2	13	14	15	16	17	

The following sets of elements belong together in groups:  
ZRD, PSIF, JXBE, LHT, QKA, WOV, GUN, YMC

- J has an atomic number three times that of T
- U has a total of six electrons
- $I_2A$  is the simple formula of an oxide
- P is less dense than S
- S is an alkali metal
- E is a noble gas
- W is a liquid
- Z has the smallest atomic mass in its group
- B has ten protons
- O has an atomic number larger than V
- D has the largest atomic mass of its group
- C has five electrons in its outer energy level

- F is a gas
- X has an atomic number one higher than F
- L is an alkaline earth metal with atomic mass of 40
- Y is a metalloid
- O is a halogen
- The atomic mass of T is more than that of H
- Q has an atomic mass 2 times that of A
- Atoms of I are larger than those of S
- M has an atomic number one less than that of A
- The electrons of atom N are distributed over three energy levels
- The atomic radius of K is the largest of the group