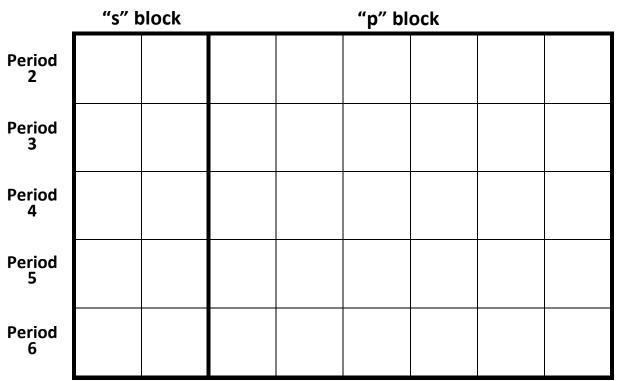
Worksheet #7

Name: Period: Seat#:

On the blank chart below, you are to fill in the letters of the imaginary elements A – NN according to the clues below. Not all elements will have a clue. Use your knowledge of the periodic table and its organization to fill in the "elements."

Your "Periodic Table" represents periods 2-6 of the s and p blocks of the real periodic table.

The "elements" below follow the same patterns that the actual elements on the periodic table follow.



Clues:

1. The "elements" are grouped in the following Families:

Α	В	C	D	E	P	Q	R	S	Т	EE	FF	GG	нн	II
F	G	Н	ı	J	U	٧	W	X	Υ	IJ	KK	LL	MM	NN
K	L	М	N	0	Z	AA	ВВ	СС	DD					

- 2. Y is the most electronegative element.
- 3. **GG** is the most reactive metal and the least electronegative element.
- 4. If **K** lost 4 e-, it would look like **E**, the smallest Noble Gas.
- 5. If I gained 2 electrons, it would look like **A**, and if it had 2 less protons, it would be **K**.
- 6. **BB** is the biggest element in its family.
- 7. AA is smaller than K but bigger than I.
- 8. **CC** is the only element in its group that is diatomic*.
- If NN lost 1 electron, its electrons would fill ONLY the s sublevel.
- 10. JJ Is the second biggest element in its family.
- 11. **S** is in the same period as **JJ**.
- 12. **Z** and **L** are not in the same period.
- 13. **B** is the largest noble gas.
- 14. If II were a real element, it would only have 3 electrons.
- 15. FF is in the same period with U but not O.

- 16. H is to JJ as I is to KK.
- 17. **U** has a larger ionization energy than **I**.
- 18. M's valence electrons are in the 4th energy level.
- 19. The shielding effect for **EE** is greater than for **HH**.
- 20. **F** is the smallest element in the group that would form charges of -2.
- 21. G gains 2 electrons to look like B.
- 22. P's atomic number is 1 more than GG.
- 23. **T** is not in the same period with **Z**.
- 24. **L** is not in the same period as **GG**, but is in the same period with C.
- 25. When **W** gains 1 electron, it's a 4p⁶.
- 26. R has 1 less energy level than M.
- 27. The valence electrons for **X** and **LL** are not in the same energy level.
- 28. **MM** and **Z** are in the same period.
- 29. N is in the same period as LL but not CC

^{*}diatomic gases are – hydrogen, nitrogen, oxygen, fluorine, chlorine, bromine, iodine