Exp ring the Periodic Table

The purpose of this assignment is to familiarize you with names of the different parts of the periodic table and all the information contained within it. In order to complete it, refer to pages 150 – 203 in the Chemistry text. There you will find information regarding all the different parts, families, classes, and groups of elements that make up the periodic table of the elements. Follow the following instructions:

1. **Outline the periodic table** on the grid below.
2. **Number Groups (columns) and Periods (rows) and Include Chemical Symbols** for each element. Atomic # & atomic mass are **not** required.
3. Using colors and/or lines and/or symbols, **show the following** on the table:

Metals	**Nonmetals**	**Metalloids/Semimetals**	**Main group**	**Transition Group**
Inner transition Group	**Halogens**	**Noble gases**	**Boron Group**	**Carbon Group**
Nitrogen Group	**Oxygen Group**	**Alkali Metals**	**Alkaline Earth Metals**	**Synthetic Elements**
Gases	**Liquids**	**Lanthanide Series**	**Actinide Series**	

4. **Hint:** Keep in mind that many elements can be classified by several of the above names. Choose your colors, lines, and symbols accordingly so that you can fit multiple in one box. For example, coloring all the nonmetals black won't leave room to show that some are gases.
5. **Create a Key.** Off to the right of each bold term listed in step 2, show what color, line, symbol, etc… you used to represent it on your table.

	1A 1	2A 2	3B 3	4B 4	5B 5	6B 6	7B 7	8B 8	9	10	1B 11	2B 12	3A 13	4A 14	5A 15	6A 16	7A 17	8A 18
1	H																	He
2	Li	Be											B	C	N	O	F	Ne
3	Na	Mg											Al	Si	P	S	Cl	Ar
4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
5	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
6	Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
7	Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt	Uun	Uuu	Uub		Uuq		Uuh		Uuo

Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	