Graphing the periodic table

**PART I: Coding the Table**

*Go to graphing the periodic table:*

<http://dptv.pbslearningmedia.org/asset/lsps07_int_graphperiodic/>

1. Launch the Periodic Table Animation. Select Groups.
2. On the blank periodic table you have been given do the following: Be sure to create a key as you go!
   1. Color Code the following areas of the table.
      1. Alkali Metals
      2. Alkaline Earth Metals
      3. Halogens
      4. Noble Gases
      5. Lanthinide Series
      6. Actinide Series
   2. Use Symbols or labels (ex. ⏺, O , / , \* ) and code the following larger areas of the table. Again – remember to update your key.
      1. s Block
      2. p Block
      3. d Block
      4. f Block
      5. Metals
      6. Nonmetals
      7. Transition metals (Please include Zn, Cd and Hg ☺)
      8. Metalloids
   3. Label your groups and periods as follows:
      1. Label the rows aka PERIODS on the left side by using the numbers 1-7 as seen on the screen.
      2. Label the columns (AKA Groups) at the top of the table using the numbers 1-18 AND
      3. Label the Main Group Elements (aka the Representative Elements) 1A-8A at the top as well, as seen on the screen. Include this in your key.
3. Practice and Apply!
   1. Describe Fluorine using 3 different identifiers of the periodic table.
      1. ii. iii.
   2. What is the name of the element that is a period 4 noble gas? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Who is the first alkaline earth metal on the periodic table? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. Research another name for the F block elements. They can be called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   5. T or F: There are more metals than nonmetals on the periodic table. \_\_\_\_\_\_\_\_\_\_\_\_\_\_
   6. What element is the only nonmetal of Group 1A? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   7. What is the group number and period for sodium? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   8. Name a halogen with more than 20 protons. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   9. Describe element Eu using 3 different identifiers of the periodic table.
      1. ii. iii.
   10. Compare and contrast the elements aluminum and sulfur using at least two ways for each.