Ch 3-7: What is the periodic table? Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Basic Physical Science Notes S2 2019

Key Terms:

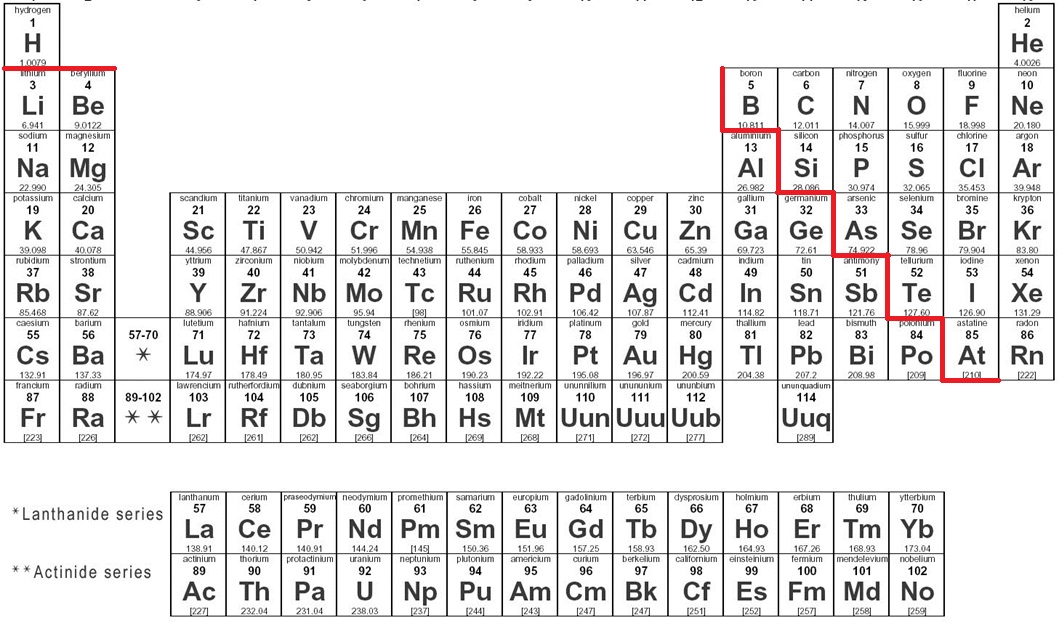
1. Chemical Symbol: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
   EX:
2. Periodic: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Group: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fill-in-the-blank:

1. When writing a chemical symbol, the first letter is \_\_\_\_\_\_\_\_\_\_\_\_, while the second letter is \_\_\_\_\_\_\_\_\_\_\_.
2. Mendeleev organized elements by increasing \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_.
3. The Modern Periodic Table was organized by increasing \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_.
4. Elements that are in the same \_\_\_\_\_\_\_\_\_\_ have similar physical and chemical properties.
5. In a period, elements on the left are \_\_\_\_\_\_\_\_\_\_\_ and elements further to the right are \_\_\_\_\_\_\_.

Short Answer:

Circle and label a group and a period on the periodic table below.

1. 
2. How are elements arranged in the modern periodic table? How is that different from Mendeleev’s periodic table?
3. Name that element:  
   Group 1, Period 3 \_\_\_\_\_\_\_\_ Group 4, Period 4 \_\_\_\_\_\_\_\_

Group 2, Period 6 \_\_\_\_\_\_\_\_ Group 11, Period 5 \_\_\_\_\_\_\_\_

Group 16, Period 2 \_\_\_\_\_\_\_\_ Group 18, Period 1 \_\_\_\_\_\_\_\_

Group 13, Period 3 \_\_\_\_\_\_\_\_ Group 17, Period 4 \_\_\_\_\_\_\_\_

Element Investigation:

Choose any 5 elements and answer the following questions about them.

1. Element: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Symbol \_\_\_\_\_\_\_ Atomic # \_\_\_\_\_\_\_   
   Mass # \_\_\_\_\_ # Protons \_\_\_\_\_\_ # Neutrons \_\_\_\_\_\_ # Electrons \_\_\_\_\_  
     
   Where is this element found in nature? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
     
   What is this element used for? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is this element harmful? YES NO Is this element abundant? YES NO

1. Element: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Symbol \_\_\_\_\_\_\_ Atomic # \_\_\_\_\_\_\_   
   Mass # \_\_\_\_\_ # Protons \_\_\_\_\_\_ # Neutrons \_\_\_\_\_\_ # Electrons \_\_\_\_\_  
     
   Where is this element found in nature? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
     
   What is this element used for? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is this element harmful? YES NO Is this element abundant? YES NO

1. Element: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Symbol \_\_\_\_\_\_\_ Atomic # \_\_\_\_\_\_\_   
   Mass # \_\_\_\_\_ # Protons \_\_\_\_\_\_ # Neutrons \_\_\_\_\_\_ # Electrons \_\_\_\_\_  
     
   Where is this element found in nature? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
     
   What is this element used for? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is this element harmful? YES NO Is this element abundant? YES NO

1. Element: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Symbol \_\_\_\_\_\_\_ Atomic # \_\_\_\_\_\_\_   
   Mass # \_\_\_\_\_ # Protons \_\_\_\_\_\_ # Neutrons \_\_\_\_\_\_ # Electrons \_\_\_\_\_  
     
   Where is this element found in nature? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
     
   What is this element used for? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is this element harmful? YES NO Is this element abundant? YES NO

1. Element: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Symbol \_\_\_\_\_\_\_ Atomic # \_\_\_\_\_\_\_   
   Mass # \_\_\_\_\_ # Protons \_\_\_\_\_\_ # Neutrons \_\_\_\_\_\_ # Electrons \_\_\_\_\_  
     
   Where is this element found in nature? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
     
   What is this element used for? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is this element harmful? YES NO Is this element abundant? YES NO