

Name: _____

Atomic Structure Notes

Period _____

1. What color element symbol(like He, or Li) designates elements that are a gas at a given temperature? red

2. What family of elements does the red color indicate? Transition metals

3. Hover the cursor over Magnesium, Mg, what type of specific information is given about the element?

Atomic number, symbol, name, atomic mass, and electron count for each shell.

4. Now click on the element name for Magnesium, Mg. What information are you presented with?

The Wikipedia page

5. What are the element symbols for the Metalloid elements?

B, Si, Ge, As, Sb, Te, At

6. What is the symbol and atomic number of the element with the most protons according to this periodic table? Click on its symbol to find out what year it was discovered.

Og Atomic number 118. It was discovered in 2002

7. If an element's symbol is written in blue, what information does this tell you?

That element is liquid phase based on the temperature selected by the slider

8. Reduce the temperature value to 0K, using the control. How many gaseous elements exist at 0K according to the table? How many liquid elements exist? List the symbol of any elements that fall in these categories.

no gasses, He is the only liquid

9. Change the temperature value to room temperature, 298K. At the top of the screen, choose the "Properties" tab. How does this view differentiate between solid, liquid and gas element states?

10. Using your cursor, choose Iron, Fe. Determine the following values for Iron:

Melting Point = 8111K

Boiling Point = 3134K

Atomic Radius = 156pm

Density = 7874kg/m³