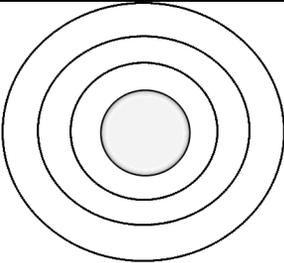
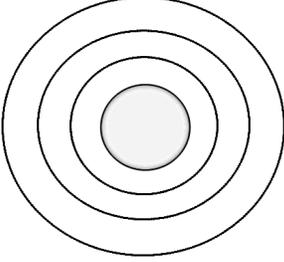
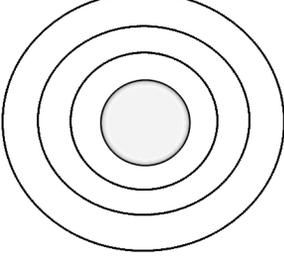
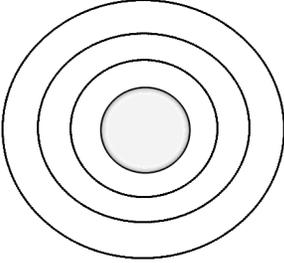


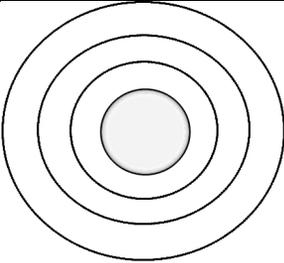
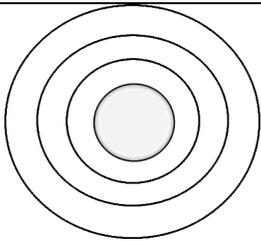
Review: Bohr Model of the Atom

Atomic mass	28.0855
Symbol	Si
Atomic number	14
Name	Silicon

- **Atomic number = # of protons**
- **Mass number = # protons + # neutrons**
- **For *neutral* atoms, # electrons = # protons**

Bohr Diagrams Practice: You may round to the nearest whole number for the atomic mass

Element	Subatomic Particles	Bohr Diagram	# Valence Electrons
Hydrogen H	# protons= # neutrons= # electrons=		
N	# protons= # neutrons= # electrons=		
O	# protons= # neutrons= # electrons=		
P	# protons= # neutrons= # electrons=		

Element	Subatomic Particles	Bohr Diagram	# Valence Electrons
S	# protons= # neutrons= # electrons=		
Ne	# protons= # neutrons= # electrons=		

What is the difference between an ionic and covalent compound?

What is the HONC Rule?

Properties of Water Review

Life as we know it could not exist without water. Water molecules are polar and are capable of forming hydrogen bonds with other polar or charged molecules. As a result, water has the following properties:

- A. Water is considered to be the **universal solvent**
- B. H₂O molecules are **cohesive**; they form hydrogen bonds with each other
- C. H₂O molecules are **adhesive**; they form hydrogen bonds with other polar substances
- D. Water molecules have a **high surface tension**
- E. Ice is **less dense** than water.
- F. Water molecules can travel up narrow spaces due to **capillary action**
- G. Water has a **high specific heat capacity**

Which properties of water listed above are related to the situations described below?

- ___1 During the winter, air temperatures can remain below freezing; however, fish and other animals living in the lakes can survive.

- ___2 Many substances, such as salt and water, dissolve quickly in water

- ___3 When you pour water into a graduated cylinder, a curve forms at the top due to the water molecules sticking to the glass sides of the cylinder.

- ___4 Some light insects can walk across the surface of water.

- ___5 Water drops that fall on a surface tend to join together to form rounded drops or beads

- ___6 If you touch the edge of a paper towel to a drop of colored water, the water will move up into (or be absorbed) by the towel.

- ___7 On hot sunny days, the air and ground feel warmer than large bodies of water (such as oceans, lakes)