

1. Explain the difference between ionic and covalent bonds. (What happens to the electrons?)
2. Explain why losing an electron gives an atom a + charge.
3. Write out the Lewis structures for the following molecules
 - a. SCl_2
 - b. PCl_3
 - c. O_2
4. Write out the Lewis structures for the following ionic substances
 - a. BaO
 - b. NaI
 - c. Li_2O

5. Which of the following substances is probably covalently bonded, and explain why you think so.

	Boiling point	Color	Dissolves in water
substance X	50°C	Yellow	No
substance Y	450°C	Brown	Yes
substance Z	750°C	White	No