

NAME:

HONORS CHEMISTRY

SECTION:

Metallic Bonding HW

Watch this video on metallic bonding <https://www.youtube.com/watch?v=9IDVDf9AKhQ>

1. Explain how a sample of metal stays together. Describe the movement of the valence electrons under ordinary conditions.
2. Use the metallic bonding model to explain why metals are malleable (and ductile!). Describe the movement of particles when the metal is hit with a hammer.
3. Describe the movement of electrons when a potential difference is applied. Describe the movement of electrons when current flows in a wire.
4. Why are metals shiny? Explain what causes luster.

Go to

http://chemwiki.ucdavis.edu/Theoretical_Chemistry/Chemical_Bonding/General_Principles/Metallic_Bonding and use the information there to answer the following questions about metallic bonding.

5. Three things the strength of a metallic bond depends on:

