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Metallic Bonding – PPT and Properties

Go to the MOODLE page and click on the Metallic Bonding PPT. Answer the questions as you move through the PPT. You must have the Power point in presentation mode for it to work correctly.

1. Cations make up metals but how do metals form cations in the first place?
2. Metals also have an “electron sea”. Where do these “electron sea” electrons come from?
3. Draw the basic picture of a metal. **Label the metal cations and the delocalized electrons** (electron sea). Write a caption for your picture that includes the words: **metal, cations, electron sea, and repulsion.**

**Properties of metals: Explain each property in terms of the electron sea model**

1. Metals are shiny-
2. Metals are good conductors of heat and electricity-
3. Metals are malleable and ductile –

\*Skip the slide about making metallic bonding models with beads. We will not be doing this. Continue through the PPT slides.

1. What is an alloy?
2. Give an example of an alloy and what elements it is made up of. Why might scientists want to create alloys in the first place?