

# Metals and their Compounds

## Lecture 1.1

Brown/Lemay/Bursten Sections 7.5 & 7.6

Physical properties of metals

Metals e.g. copper	Non-metals e.g. sulfur
Lustrous (shiny)	Not shiny
Malleable (bendable)	non-malleable
Ductile (make into wires)	non-ductile
Good conductors of heat and electricity	Generally poor conductors but exceptions - diamond

While most metals are *hard* and *solid* - this is not a *general* property

- Some metals like mercury are liquids
- Pure metals like gold are very soft

"Metals" are a state of matter - hydrogen can be a metal !