



## metals

### physical properties

- luster/shiny
- malleable/ductile
- solids @ room temp (except Hg)
  - ↳ high mp, bp
- high density
- good conductors

### Chemical properties

- react w/ acid
- when bond: lose  $e^-$ 
  - ↳ low electronegativity
  - ↳ low ionization energy

## nonmetals

### physical properties

- dull (no luster/shine)
- brittle
- can be solid, liquid, gas
  - ↳ most are gases
  - ↳ low mp, bp
- low density
- poor conductors

### chemical properties

- don't react w/ acid
- when bond: gain  $e^-$ 
  - ↳ high electronegativity
  - ↳ high ionization energy

## metalloids/semi-metals

have properties of both metals and nonmetals