

chem + native Review 2020

- Heating curve
 - Know gases, liquids, solids
- Know melting, freezing, evaporation, vaporization, condensation relative to heating curve.
- Electron configuration: (EC)
 - identify elements based on EC.
 - Identify group or family based on EC
 - ~~✗~~ c) Given element like Mg - how many energy levels needed for e^- ?
- Size of ions compared to neutral atoms:
 - cation smaller than neutral atom
 - anion larger than neutral atom
- core vs. valence e^-
 - valence = surface of atom
 - nuclear charge + valence = size
- select molecule ~~✗~~ ^{with} ionic bonds
- Form ionic compound from ions like Na^+ and PO_4^{3-}
- Determine charges on cation and anion in compound like:
 Na_3PO_4
 $Mg_3(PO_4)_2 \rightarrow Mg^{+2} PO_4^{-3}$

Identify what group X comes from if XCl_2 .
X is group 2A

Naming

Type I + Type II ionic
Simple covalent

Which elements combine to form ionic bonds?

Lewis Formulas

Recognize correct Structures