

KEY CONCEPT#3

What two elements, by mass, make up the greatest percentage of the Earth's crust?

- Oxygen
- Silicon



SiO_4 Silicate group (largest crystal/chemical group)



 Cubic (3 cleavages, 6 faces at right angles; e.g. halite)	 Octahedral (4 cleavages, 8 faces; e.g. fluorite)	 Dodecahedral (6 cleavages, 12 faces; e.g. sphalerite)
 Rhombohedral (3 cleavages, 6 faces not at right angles; e.g. calcite, dolomite)	 90°/90° Prismatic (2 cleavages, 4 faces of many possible angles; third side fractures irregularly; e.g. pyroxene, amphibole, feldspar)	 60°/120° Basal (1 cleavage, 2 faces; e.g. biotite, muscovite, chlorite)

KEY CONCEPT#4: What cause minerals to have different physical properties?

Internal arrangement of atoms