

1. Mutually soluble in all proportions; typically refers to liquid substances is considered \_\_\_\_\_, while of negligible mutual solubility; typically refers to liquid substances as well is considered \_\_\_\_\_
  - a. miscible; immiscible
2. An arrangement that has a cubic unit cell with atoms at all of the corners and at the centers of each face is referred to as which of the following
  - a. FCC
3. Of concentration that exceeds solubility; a nonequilibrium state is referred to as which of the following terms
  - a. Supersaturated
4. Crystalline structure in which planes of closely packed atoms or ions are stacked as a series of three alternating layers never reaching 100% as there will always be space in between atoms is referred to as which of the following
  - a. packing efficiency
5. The solubility of polar molecules in polar solvents and of nonpolar molecules in nonpolar solvents is an illustration of the chemical axiom" \_\_\_\_\_
  - a. Like dissolves like