

CONCEPT REVIEW

3

PROPERTIES OF SOLUTIONS



PAGES 13 TO 19

Complete this concept review handout and keep it as a record of what you have learned.

DEFINITIONS

- The concentration of a solution corresponds _____

- Dilution is _____

- Solubility is _____

- A saturated solution is _____

MATHEMATICAL FORMULAS AND UNITS OF MEASUREMENT

Mathematical formula for calculating concentrations

_____ is _____ (in g/L).
 $C = \frac{\text{_____}}{\text{_____}}$ where _____ is _____ (in g).
 _____ is _____ (in L).

Mathematical formula for calculating concentrations when diluting

_____ is _____
 $C_1V_1 = \text{_____}$ where _____ is _____
 _____ is _____
 _____ is _____

Units of measurement

Concentration or solubility can be expressed as: _____

HOW TEMPERATURE AFFECTS SOLUBILITY

Example of a substance dissolved in a liquid solvent	Increase in temperature	Decrease in temperature
Salt (solid)	Solubility increases.	
Oxygen (gas)		