Name: _____ Group: _____ Date: _____

CONCEPT REVIEW 7

Solubility and concentration

EST

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

Definitions

- A solution is _____
- Solubility is _____
- The concentration of a solution is _____
- The concentration in PPM ("parts per million") is _____
- EST Molar concentration is _____

Effects of various changes on the concentration of a solution

Change	Effect on the concentration
Dilution (addition of solvent)	
Dissolution (addition of solute)	

Mathematical formulas and units of measurement

Formula for calculating concentration in g/L:

where _____

Equivalences for 1 ppm:

$$1 \text{ ppm} = \frac{\text{g}}{\text{g}} = \frac{\text{mg}}{\text{g}} = \frac{\text{mg}}{\text{kg}}$$

In aqueous solutions:

1 ppm ≈ _____ ≈ _____

EST Formula for calculating molar concentration:

where _____