Molarity (M)

- expresses _______________ _______________
- \( M = \) __________
- _______________, _________________, ______, and _________________ all represent the same ratio.

Ex #1. A saline solution contains ________ g of NaCl per ________ mL of solution. What is its molarity?

\[ M = \] _________________

Ex. #2 How many moles of solute are contained in ________ L of ___________ M CaCl\(_2\)?
Colligative Properties
• Any of the _______________ of a _______________ that change when the _______________ of the _______________ changes.

• Depend on the _______________ of _______________ dissolved in a given _______________ of _______________

• Examples of Colligative Properties:
  a. Vapor _______________ Depression
      -- the _______________ of the _______________ _______________ of a liquid that occurs when substances are _______________ in the _______________.
      -- Vapor Pressure: the _______________ of a _______________ in _______________ with its _______________.

  b. Freezing _______________ Depression
      -- the _______________ of the _______________ _______________ of a liquid that occurs when substances are _______________ in the _______________.
      (ex. using _______________ in car radiators and __________ on icy roads)

  c. Boiling _______________ Elevation
      -- the _______________ of the _______________ _______________ of a liquid that occurs when substances are _______________ in the _______________.
      -- boiling occurs when _______________ _______________ equals _______________.
      (ex. _______________ in a car acts as a coolant in the summer.)

• More Examples of Colligative Properties:
    _______________ , _______________ , _______________

The Chemistry Quiz

CR1. _____  CR2. _____

1. _____  2. _____  3. _____  4. _____  5. _____

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