

General Chemistry
Mr. MacGillivray
Quiz #32:
Dissociation and Colligative Properties

1) Write a balanced equation for the dissociation of Na_2CO_3 in water.

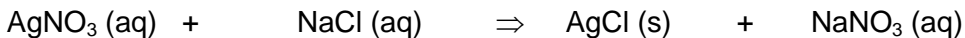
2) The following precipitation reaction **does** take place:



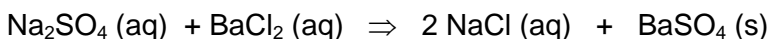
Write the molecular equation for the above reaction.

- MAKE SURE that the products contain the correct ions paired with each other.
- MAKE SURE that the formulas make sense in terms of charge (i.e., do they “add up to zero”?)
- MAKE SURE that you indicate the phase of matter with s, l, g, aq, etc.

3) Write the COMPLETE ionic equation for the balanced molecular equation below.



4) Write the NET ionic equation for the balanced molecular equation below.



5) How will the boiling point of a solution be changed if more solute is dissolved in it?

6) How will the freezing point of a solution be changed if more solute is dissolved in it?

7) How will the vapor pressure of a solution be changed if more solute is dissolved in it?