Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Colligative Properties Lab

Problem:

Does adding a solute to water change its boiling and freezing points?

Procedure:

Boiling Point

* + Half fill a 250 ml beaker with hot water
  + Boil and record the temperature
  + Add a good amount of salt
  + Boil and record the temperature
  + Publish temperatures on the board

Freezing Point

* + Half fill a styrofoam cup with cold water
  + Add ice and stir
  + Monitor the temperature until it stops changing and record
  + Add salt
  + Monitor the temperature until it stops changing and record
  + Publish temperatures on the board

Data:

|  |  |
| --- | --- |
| Boiling Point | Boiling Point |
| With Out Salt | With Salt |
| Temperature: | Temperature: |

|  |  |
| --- | --- |
| Freezing Point | Freezing Point |
| With Out Salt | With Salt |
| Temperature: | Temperature: |

Conclusion:

How are the boiling point and freezing point changed when solute particles are added to water?