

Name: _____ Block: _____ Date: _____

Colligative Property Scenario Group Questions

Directions: Answer each question using images to help explain.

Scenario #1 Two beakers with identical volume are put into a freezer at the same time. Which will freeze first? Which one has the higher freezing point? Why do you think this is?



Beaker 1: Sodium chloride dissolved in water



Beaker 2: Pure water

Scenario #2

Person	Location	Average Winter Temp
Joe	Anchorage, Alaska	21.1 F
Suzy	Chicago, Illinois	30.6 F
Milo	Washington, DC	39.6 F

Who needs to put the most salt on their driveway? Explain why.

Scenario #3

Why is a mixture of ethylene glycol and water a anti-freeze agent in your car than pure water? Freezing point of water is 32 F and Freezing point of ethylene glycol is -34F