**Vocabulary: Freezing Point of Salt Water**

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**Vocabulary**

* Freeze – change from a liquid to a solid.
* Freezing point – the temperature at which freezing occurs.
  + At sea level, the freezing pointof pure water is 0 °C (32 °F).
* Liquid – a phase in which matter has definite volume but no definite shape.
  + A liquid will take the shape of a container but cannot expand or be compressed.
  + Molecules in a liquid move randomly but stay close to one another.
* Melt – change from a solid to a liquid.
* Melting point – the temperature at which melting occurs.
  + At sea level, the melting pointof pure water is 0 °C (32 °F).
* Solid – a phase in which matter has a definite shape and a definite volume.
  + A solid will retain the same shape and volume in any container.
  + Atoms in a solid are held in a rigid structure and cannot move freely.
  + Water in the solid phase is called *ice*.
* Transformation rate – the speed at which molecules transition from one phase to another, such as from liquid to solid or solid to liquid.
  + If the liquid to solid transformation rate is greater than the solid to liquid rate, the substance will freeze.
  + If the solid to liquid transformation rate is greater than the liquid to solid rate, the substance will melt.