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## ANGIE BRADSHAW

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Figure 8a-2: The three diagrams above illustrate the distinct arrangement patterns of water molecules as they change their physical state from ice to water to gas.Frozen water molecules arrange themselves in a particular highly organized rigid geometric pattern that causes the mass of water to expand and to decrease in density.

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Mass transfer is the net movement of mass from one location, usually meaning stream, phase, fraction or component, to another. Mass transfer occurs in many processes, such as absorption, evaporation, drying, precipitation, membrane filtration, and distillation.Mass transfer is used by different scientific disciplines for different processes and mechanisms.

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This example is an air flow problem using a supply vent on one side of a room and an open vent on the opposite side. It demonstrates how "vents" are used to define boundary conditions how flow into a model must have an exit.

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TL;DR (Too Long; Didn't Read) To calculate the amount of heat released in a chemical reaction, use the equation  $Q = mc \Delta T$ , where  $Q$  is the heat energy transferred (in joules),  $m$  is the mass of the liquid being heated (in grams),  $c$  is the specific heat capacity of the liquid (joule per gram degrees Celsius) and  $\Delta T$  is the change in temperature of the liquid (degrees Celsius).

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