

Exam

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- A Keeping it at a high pressure allows you to cool the coolant through adiabatic cooling by reducing the pressure. Such as by the radiator cap releasing coolant.
- B Heat is the transfer of thermal energy. Once a gas has that energy it will use that energy to vibrate an equal amount of energy to each type of vibration and energy is distributed among all the particles so, for a given amount of heat the change in temperature will be less the more ways to vibrate there are and the more particles there are $\Delta T = \Delta E / nC_v$
- C Energy is not distributed evenly among all particles. Some particles are moving particularly fast and have enough energy to break the hydrogen bonds keeping that particle part of the liquid.