

Equipartition, Heat & Work

Thermodynamics

Spring 2021

College of the Atlantic.

1. What is the rms speed of N_2 molecules in the air under typical (room temperature, one atmosphere) conditions? The answer may surprise you.
2. Which of the following processes are heat and which are work?
 - (a) Warming up your hands by rubbing them together
 - (b) Heating up water in a microwave.
 - (c) Heating up water on an electric stove.
 - (d) Heating up water on a gas stove.
 - (e) Ice melts in warm water.
 - (f) Energy flows from the sun to the earth