

Thermal Physics Vocabulary

First test:

temperature
thermal equilibrium
ideal gas
Boltzmann's constant
degree of freedom
equipartition theorem
heat
work
quasistatic
first law of thermodynamics
isothermal
adiabatic
heat capacity
latent heat
enthalpy
microstate
macrostate
multiplicity
paramagnet
Einstein solid
fundamental assumption
second law of thermodynamics
entropy

Second test:

negative temperature
mechanical equilibrium
thermodynamic identity
diffusive equilibrium
chemical potential
efficiency
Carnot cycle
coefficient of performance
Helmholtz free energy
Gibbs free energy

Third test:

phase transformation
vapor pressure
triple point
critical point
Boltzmann factor
partition function
Maxwell speed distribution
quantum volume
Gibbs factor
grand partition function
boson
fermion
Fermi-Dirac distribution
Bose-Einstein distribution
degenerate electron gas
Fermi energy
Fermi temperature

Final exam:

Planck spectrum
blackbody radiation
phonon
Debye temperature
Bose-Einstein condensation