You may find the following to be useful:

Heat Transfer

Q=mcΔT

Phase Change

Q=mL

Thermal Expansion

ΔL=αL0ΔT

Heat Exchange

+Qin=-Qout

Power

P=E/t

Entropy

S=Q/T

1st Law

ΔU=Q+W

Carnot Efficiency

e=1-TC/TH

PV Work

Work=Area under curve

Thermal Efficiency

e=Wout/Qin

Water

Lfus=3.33x105, Lvap=2.26x106

cice=2093, cwater=4186, csteam=1890

Temperature

TF=TC\*9/5+32

TK=TC+273.15

Internal Energy

U=3/2nRT

Ideal Gas

PV=nRT

R=8.3

Engine

QH=QC+W

Kinetic Energy

U=Σ KE

KE=1/2mv2