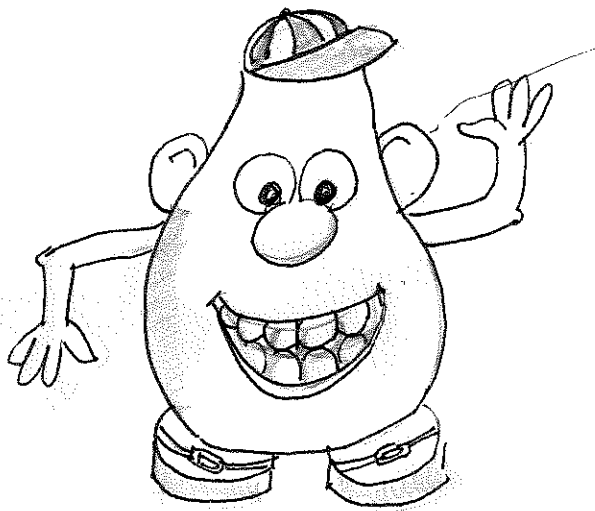
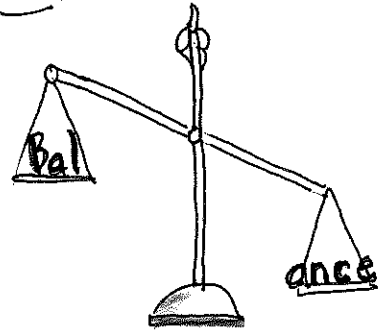


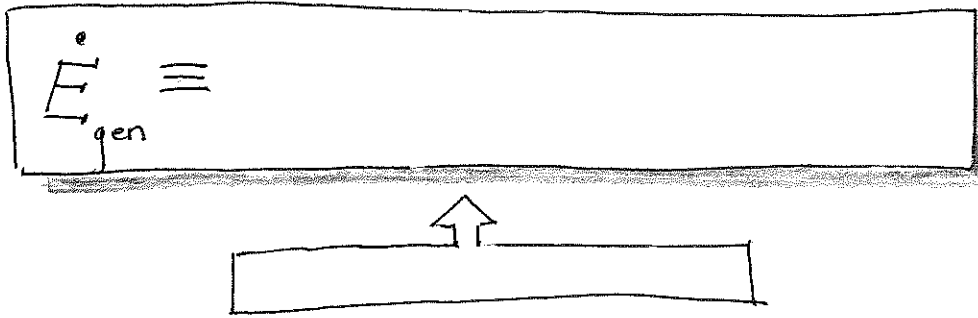
The Thermal Energy



Start with a general conservation of energy

Make it a closed system. Do not ignore forms of energy besides U and do not ignore electrical power. (You can ignore KE & PE and other forms of power, though.)

Seeing as how this course is Heat Transfer,
let's lump everything that is not U
together:



Put it all together...