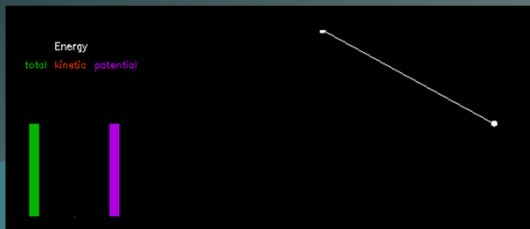
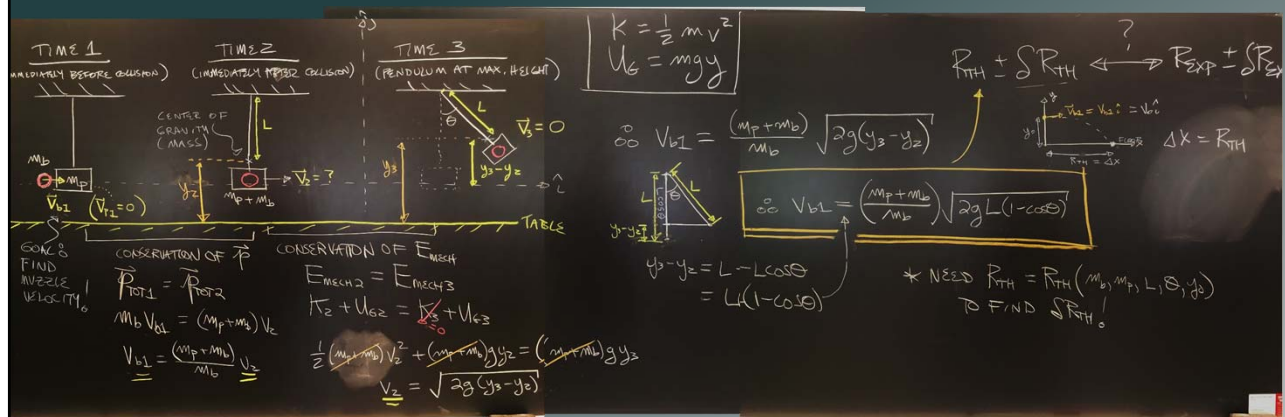


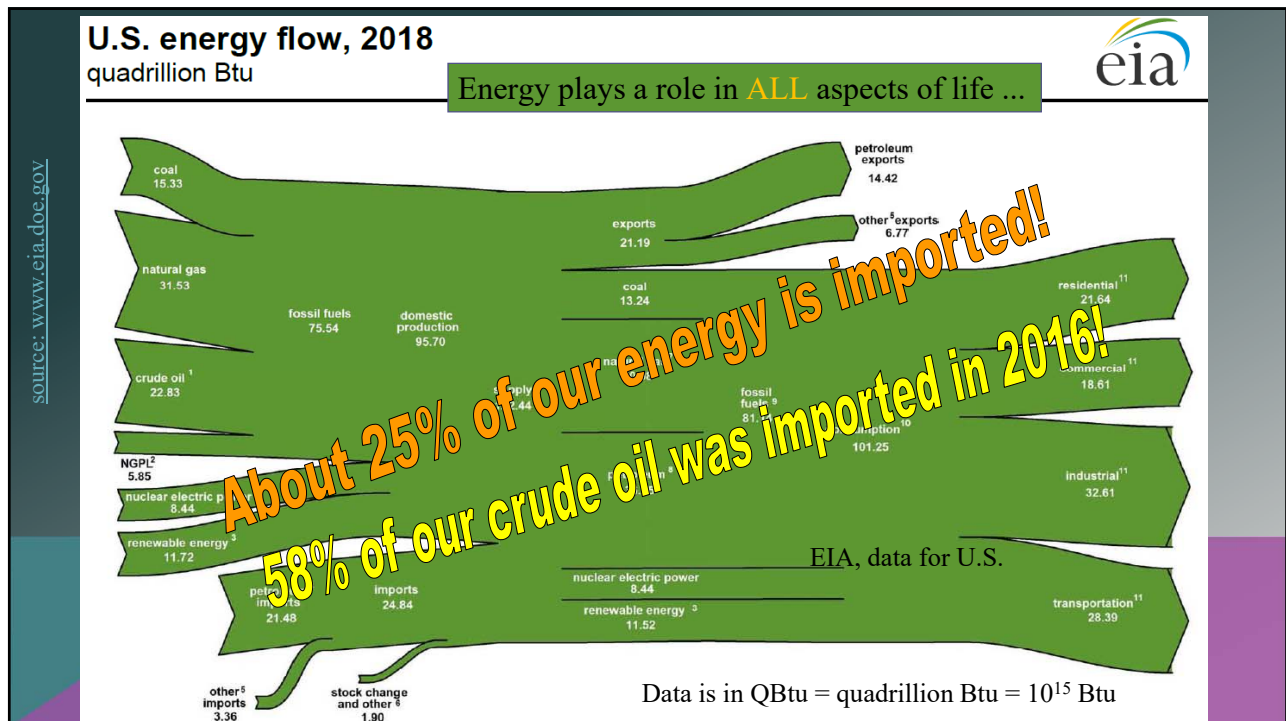
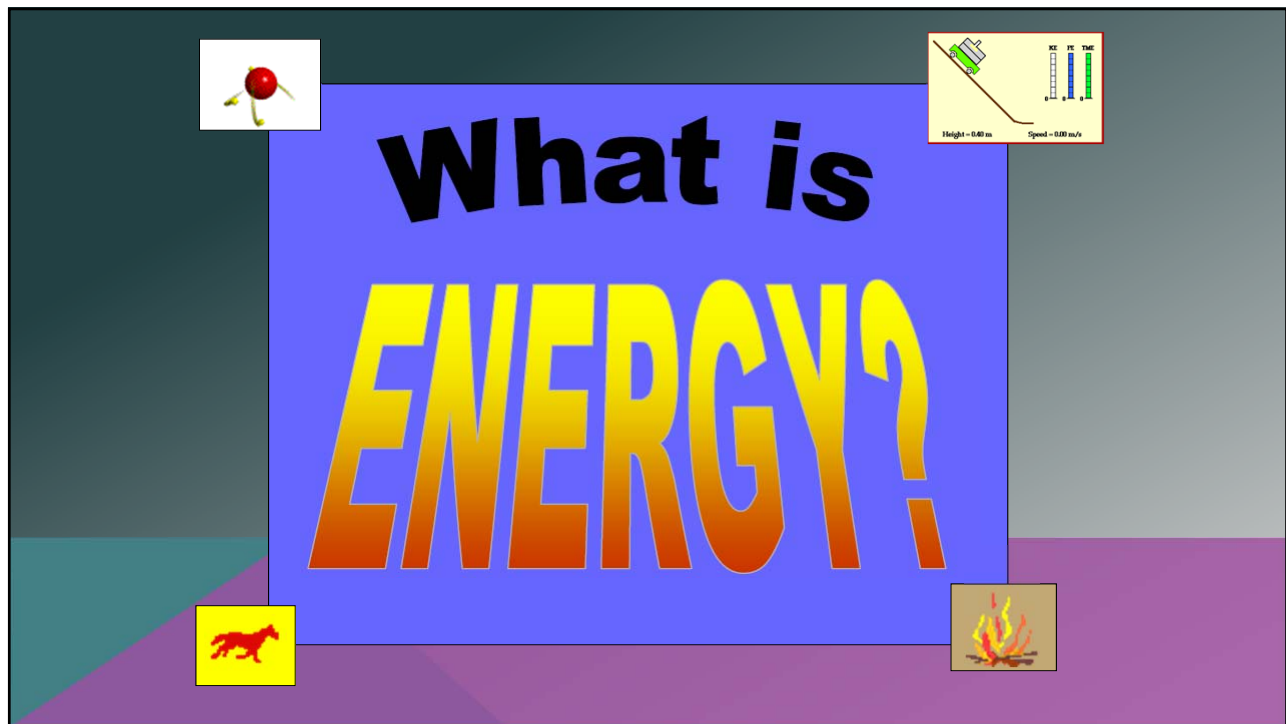
PHYS 210 - General Physics I

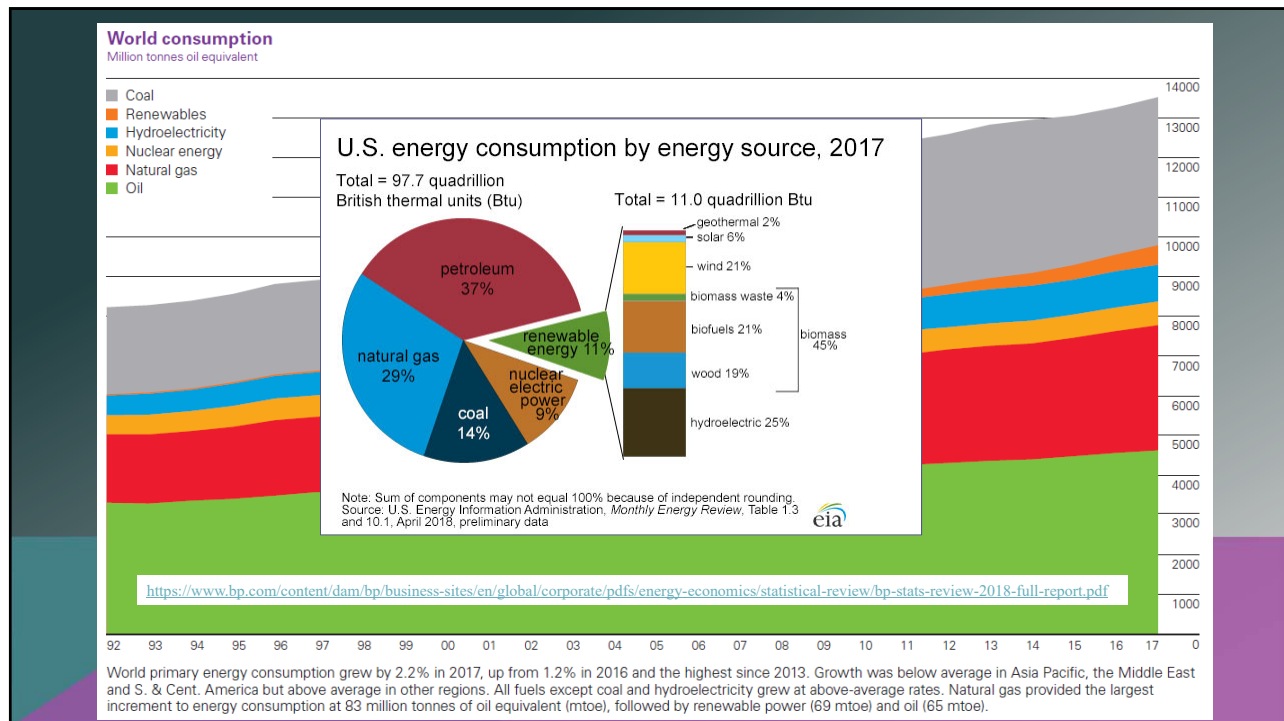
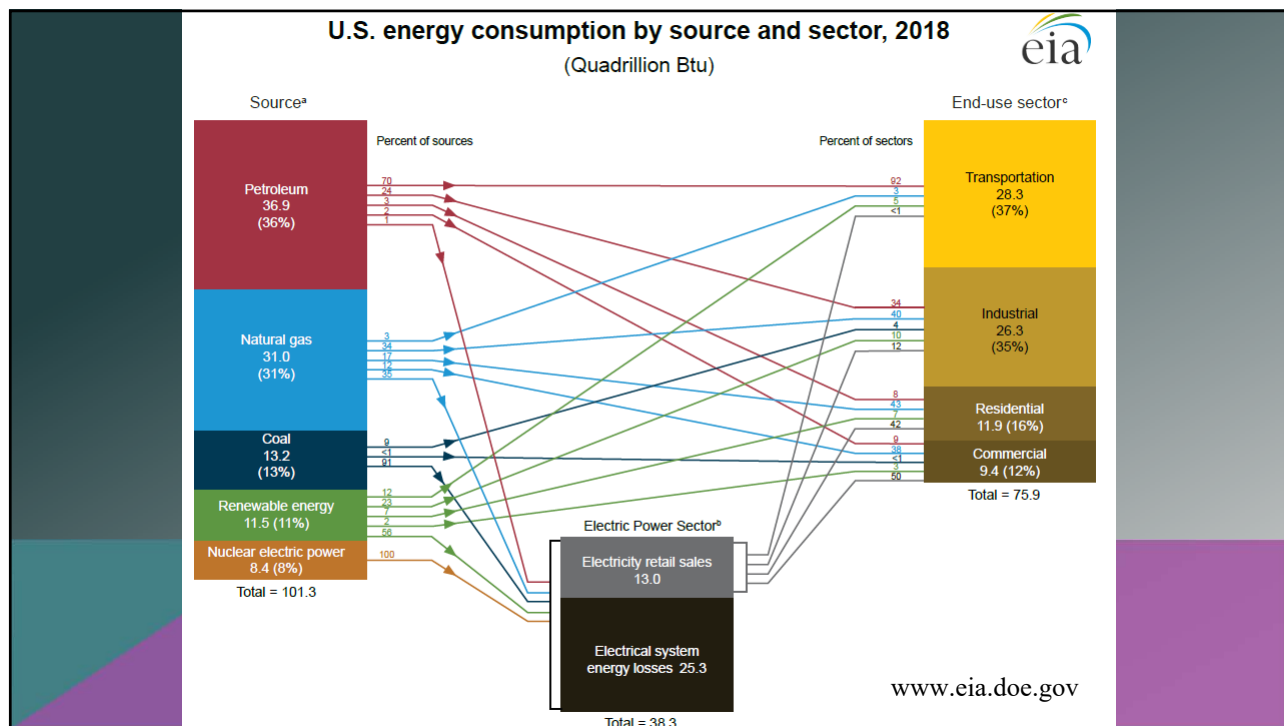
- From lab ...
- Energy!
- Conservation of Mechanical Energy



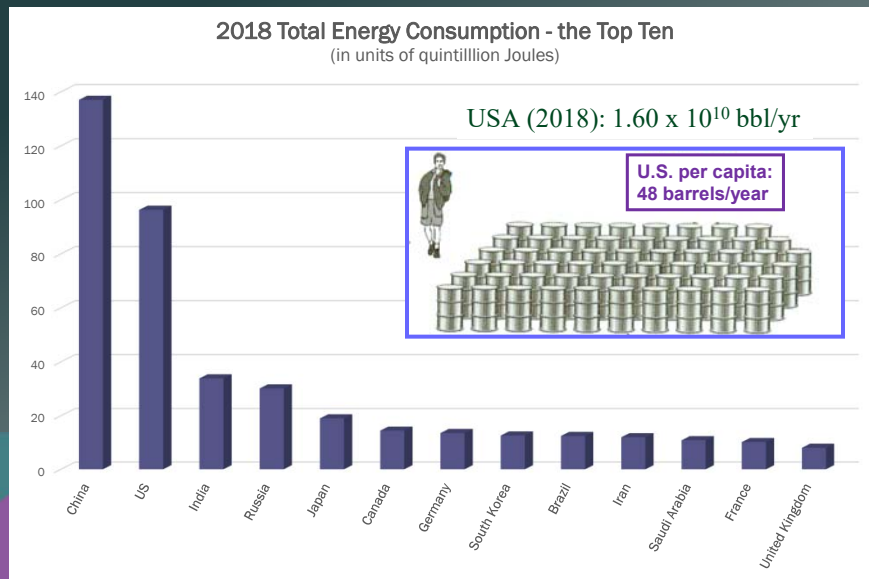
FROM LAB ...







WHO USES ENERGY? THE TOP TEN:

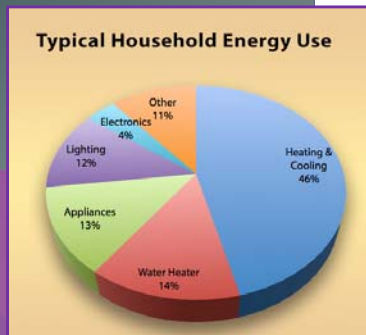
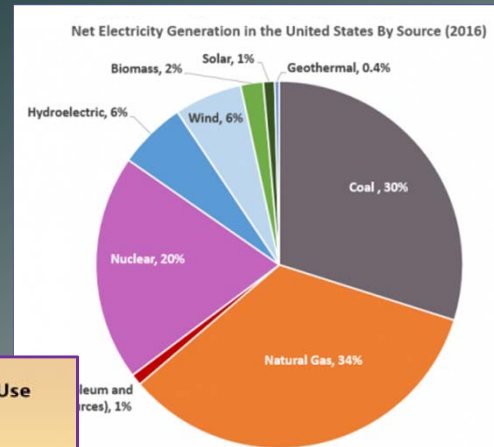


ELECTRICITY: U.S.

~40% of our energy use goes into electricity production

~70% of this is from fossil fuels

Electricity production is likely to increase dramatically as we move beyond fossil fuel resources



ENERGY

Loosely, energy is “what makes it go!”

Energy is an abstract, mathematical concept that reflects the condition of an object or system.

- It can be changed when the object/system interacts with something
- It comes in many different *forms*
- All energies are scalars

First, consider the energies associated with motion and position:

Kinetic Energy $K = \frac{1}{2}mv^2$

Gravitational Potential Energy $U_g = mgy$

Happy Wednesday!