Today,
Go over Energy Project Assignment

MECH ENERGY Done by Feb break?
Introduction to Mechanical Energy Changes.
CW/HW: Energy Problems
Energy Changes

Example of Mechanical Energy Changes:
I take a spring loaded dart gun and fire it into the air. I push on the 0.1 Kg dart with 3 Newtons of force.

What type of energy does it have at each point in its journey?

ENERGY CHANGES ….. IF no friction/heat

$$\Delta ME = \Delta ME$$

Start Finish

GPE	+	KE	+ EPE	=	GPE	+	KE	+ EPE
mgh	+	$1/2mv^2$	+ $1/2kx^2$	=	mgh	+	$1/2mv^2$	+ $1/2kx^2$

During its contact with a golf club, a golf ball is distorted, as is shown in the high-speed photograph. As the ball moves away from the club, the ball recovers its normal spherical shape, and elastic potential energy is transformed into kinetic energy.