

The Energy Song – By Bo

C G
This is the energy song
C G
Sing it once and it won't be long (before you)
F C G
know all three mechanical energies (2x)

C G C G
We're about to learn, be prepared
C G C G
Kinetic energy is $1/2mv^2$
F C G
Remember ... we've got the tools (to use)
F C G
Work and energy in Joules

C G
Gravitational Potential Energy
C G
The Moon's is lowest at perigee
C G
The equation is mgh
C G
m the mass, g is 9.81
F C G
h is the vertical height
F C G
Above the, gotta set the zero line

C G
PE of the Elastic Kind
C G
 $1/2kx^2$ is how it's defined
C G
K's the spring constant, and don't be a cheater
C G
It's got units of Newtons per meter
F C G
Know this in addition
F C G
x's is the displacement from equilibrium position

C G
Work is $Fdcos(\theta)$
C G
F the force for all your data
C G
Objects moves through displacement d
C G
I think that we can all agree (they're only)
F C G
Two vectors in the work equation (Theta's)
F C G
The angle between the two of them
Am E
Be careful, include
Am E
Only F d magnitudes

C G C G
What happens if friction is not there?
C G C G
Flying through the vacuum you can breathe, called "no air"
F C G
All the energies are preserved (because)
F C G
Mechanical energy is conserved
Am E
Please, don't disappoint
Am E
Show your initial and your final points!

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