

## Note-Taking Guide - Episode 605

kinetic energy equation -

ex: A shot-putter heaves a 7.2 kg shot with a velocity of 6.9 m/s.

a. What is the K.E. of the shot?

b. How much work did the shot-putter do on the shot?

Problem Set #1: (1-3) *on back*

potential energy equation -

Can you measure an object's potential energy? \_\_\_\_\_

Can you measure an object's change in PE? \_\_\_\_\_

ex: A 2.0 kg book is lifted from a table to a shelf 1.8 m above the floor. What is the gravitational potential energy of the book...

a. relative to the floor?

b. relative to the table 0.6 m above the floor?

Problem Set #2 (1-2) *on back*

Energy can be \_\_\_\_\_ from potential to \_\_\_\_\_ and vice versa.

Law of Conservation of Energy:

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