### Physics 112

Wednesday, December 6/17

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### **Blocked Off -> Wednesday Lunch and After School**

- 1. Review for SA U3 S1
- 2. SA U3 S1 -> Fill in the Blanks and 4 Problems -> Date: <u>Thursday</u>, <u>Dec. 7/17</u>
- 3. Concept Sheet: U3 - S2: Types of Energy and Work-Energy Theorems
- 4. Kinetic Energy
- 5. Work-Kinetic Energy Theorem
- 6. Worksheet Textbook C6 PP #19-21 Textbook - C6 PP #22-25
- 7. Gravitational Potential Energy
- 8. Reference/Zero Lines
- 9. Work-Gravitational Potential Energy
- 10. Worksheet Textbook C6 PP #27 and 29- Textbook C6 PP #30 and 33

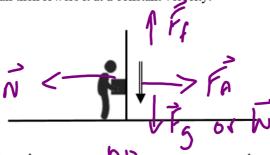
# Physics 112 Review -> SA: U3 S1 – Work, No Work and Types of Work

#### Part 1 - Fill in the Blanks

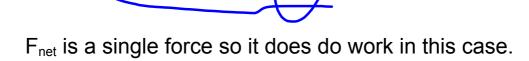
Complete each statement with a word(s) or symbol(s) to make the statement true. Watch your spelling!

1.	Work is always done by a(n) individual force. Single
2.	Work is a(n)
	The man does work on the cart as he walks down the corridor because his force has a direction that is the motion of the object.
	Er (1) possitive  (2) regative
4.	Work is a measure of energy transfer.
5.	West work done on an object removes energy from the object. Uses well hot
	Types of Work.
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6. A man holds a box against a wall then lowers it at a constant velocity.



- a) The normal force does \_\_\_\_\_\_ work on the box.
- b) The force of friction does \_\_\_\_\_\_ Negative work on the box
- c) The weight of the box does \_\_\_\_\_ work on the box.
- 7. A joule, J, expressed as a combination of base units il Kgm².
- 8. Displacement is a \_\_\_\_\_\_ quantity

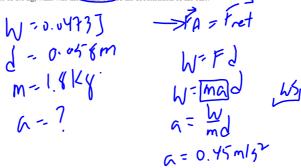


$$= \frac{k_3 m^2}{5}$$

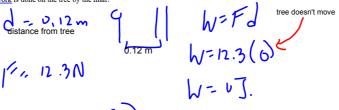
1. Tommy does 0.18 J of work on a 7.3 g pencil while pushing it with a force of 3.3 N. How far, in cm, did the pencil move?

$$W = 0.18$$
  $W = Fd$   $d = W$   $d = 0.18$   $d = 0.18$   $d = 0.065$   $d = 0.065$ 

2. A physics student does 0.0473 J of work on a cart to push it 0.058 m along on air track (no friction). If the car had a mass of 1.8 kg, what was the magnitude of the acceleration of the cart?



3. A man standing 0.12 m from the trunk of a redwood tree pushes on the trunk with a force of 12.3 N. How much work is done on the tree by the man?



4. a) A crane does 1.35 x 10<sup>4</sup> J work to fift a beam 2.98 m. What was the mass of the beam?
 b) What type of work was done by the force of gravity on the beam as it was lifted? Explain.

his De force of gravity does regative work.

The directions of For and I are opposite.

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### **Blocked Off -> Wednesday Lunch and After School**

- 1. SA U2: S3&4 (SHM and Projectiles)
- 2. Coulomb's Law To Be Continued

## Science 10 Wednesday, December 6/17

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### **Blocked Off -> Wednesday Lunch and After School**

- 1. Optional Assignment Graphing Characters (max 2 -20 pts each)
- 2. Retry SA Physics #1
- 3. Worksheet Finding Slope from a Graph HW
- 4. Roller Coasters