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## HW Unit 8:3 — Energy Transfers Mr. Murray, IPC cstephenmurray.com

A-day: Due Fri., 2/23 (Assig: 2/21) B-day: Due Mon., 2/26 (Assig: 2/22)

- 5. What kind of energy: Ep, Ek, or Work?
  - A. \_\_\_\_\_At the top of the slide?
  - B. \_\_\_\_Friction while sliding?
  - C. \_\_\_\_\_Part way down?
  - D. \_\_\_\_How they got to the top?
  - E. \_\_\_\_At the bottom.
- 6. A person lifts a 3 kg box to the top of a 2 m tall table.A. Find the energy of the box on the table.

- 4. Energy increases or decreases?
  - A. \_\_\_\_\_ A force pushes something up into the air.

B. A battery powered flashlight. (Three transfers.)

B. \_\_\_\_ When your car brakes.

1. What kind of energy is gained

2. What kind of energy is gained

3. What kind of energy transfers?

A. A nuclear power plant.

from B to D?

from F to G?

- B. Where did that energy come from?
- C. How much work was done to lift the object?
- D. To calculate power you would need what?
- 7. A less powerful force does less work. True or false and why?
- 8. Which forces do work?
- 9. Which force does partial work?
- 10. Which forces do no work?
- 11. Find the work done by a person pushing a up a 3 m hill with 12 N.

 $\begin{array}{c} & & \\$ 

F

 $F_2$ 



- 15. Find the power of the force.
- 12. If the above person pushed for 10 seconds, find power.
- 16. The work became what kind of energy? 17. BONUS: Find the mass of the box.

13. What kind of energy did the above work turn into?

