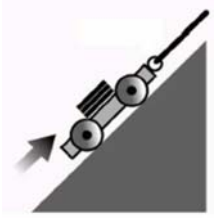
Test—PreAP—Tues Nov 1
Reg—Wed. Nov 2

PreAP: due Tues., Nov 1 (Assigned: Mon., Oct 24)
Reg: due (Assigned: Tues., Oct 25)

Energy 1

1. A person holds onto an object for 2 minutes, but doesn't move it. Is work done on the object?
2. A person pushes 10 N down on a lever to lift a 25 N object.
   Fout = _____
   Fin = _____
   Find the MA of the lever.
3. A pulley has 3 support ropes. What is the MA of the pulley system?
4. What kind of energy is being shown: Ek, Ep, W, or PEel?
   A. ___ An object is pushed for 3 m.
   B. ___ An object is going 6 m/s.
   C. ___ A spring is compressed.
   D. ___ An object on top of a 3 meter table.
   E. ___ Friction stopping an object from moving.
   F. ___ A moving car.
5. Name the six types of simple machines.
6. A 3 N force pushes on a object for 20 meters. Find the work done (include units).
7. A 200 kg object is going 4 m/s. Find its kinetic energy.
8. A 10 kg object is 15 meters up a hill. Find its potential energy.
9. A 4 kg object compresses a spring 0.12 meters. The spring constant for this spring is 2.3 N/m. Find the elastic potential energy stored in the spring.
10. What do we call the pivot point for a lever?
11. What kind of simple machine is this picture?



12. A knife is what kind of simple machine?
13. A prybar (to pry something open) is what kind of simple machine?

TAKS ON BACK

14. Find the oxidation numbers for
    A. oxygen: ___
    B. magnesium: ___
    C. carbon: ___
    D. Aluminum: ___

15. If you add 2 protons to oxygen, what would you have?

16. If I added 3 neutrons to carbon, what element would I have?

17. If I took away 2 electrons from aluminum, it would become an _____.

18. What charge would the aluminum in #17 have?

19. Using the procedure from the bellwork, find the balanced chemical formula for a compound made from Sodium and Oxygen: