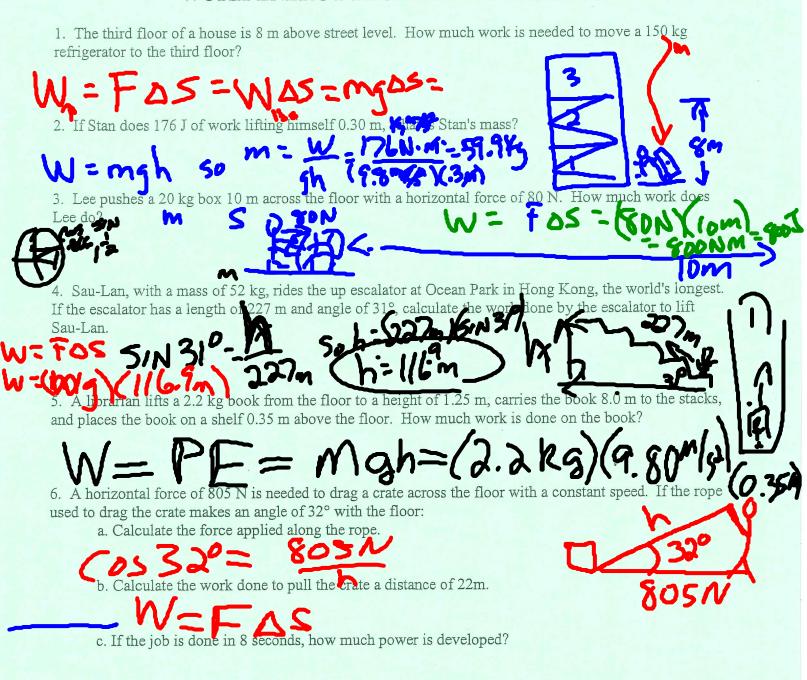
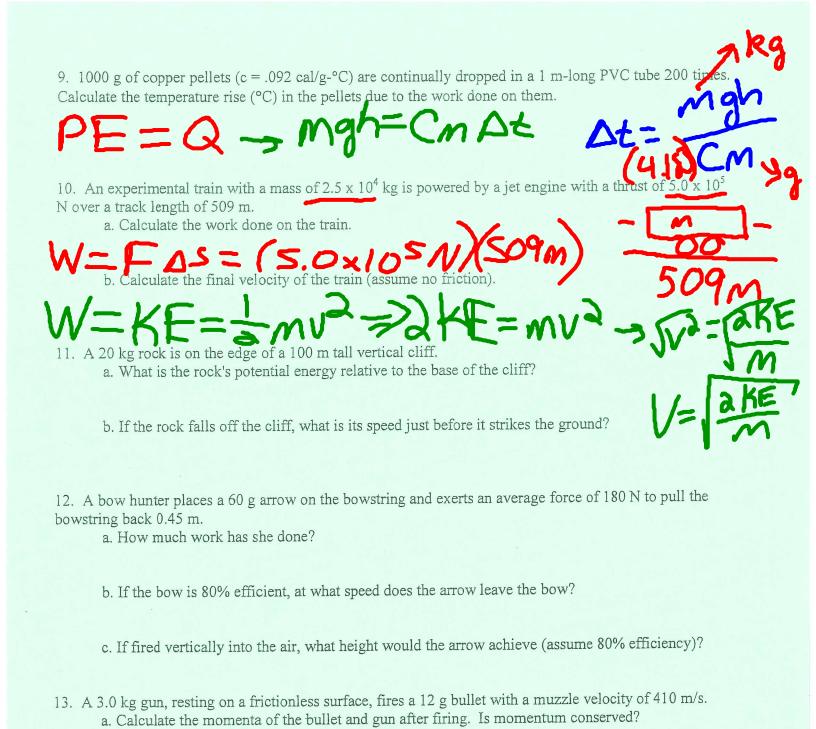
WORK-ENERGY PROBLEM WORKSHEET



- 7. Mary weighs 505 N. If she walks down a flight of stairs to a level 5.5 m below, what is the change in her potential energy?
- 8. Toni has a mass of 45 kg and is moving with a speed of 10 m/s.
 - a. Calculate her kinetic energy.
 - b. If Toni's speed changes to 5 m/s, what is her kinetic energy? Compare to part a answer.



b. Calculate the kinetic energy of the bullet and gun after firing. Is mechanical energy conserved?

14. A superball has a coefficient of restitution of 0.78. If it is dropped from a height of 2 m above the

15. If you could convert matter to energy with 1% efficiency, how much energy would 1 g of water

floor, to what height will it rebound?

produce?