

Name: _____

Period: _____

HW Unit 8:2 — Energy
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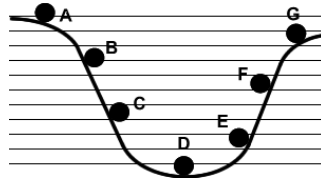
B-day: Due Tues., 2/19 (Assig: 2/15)

A-day: Due Wed., 2/20 (Assig: 2/16)

1. What is energy?

2. Kinetic or Potential Energy?

- A) _____ Point A
- B) _____ Point D
- C) _____ Point C



3. What kind of energy (use your notes for the types)

- A) _____ What powers a Bunsen burner.
- B) _____ What friction creates.
- C) _____ What an atom bomb uses.
- D) _____ A rolling ball.
- E) _____ What starts your car.
- F) _____ What your headlights give off.

4. Give three kinds of energy in a lit match. (And why.)

5. Prove an object on a desk has energy.

6. What is 4^2 ?

7. If $v^2 = 36$, what is v ?

8. A 25 kg falling object is going 4m/s while it is still 5 m in the air.
Give the variable list:

9. What is “g” (and how much is it)?

Increases or Decreases?

- 10. _____ Kinetic energy: if the mass increases.
 - 11. _____ Potential energy: if the object is higher off the ground.
 - 12. _____ Kinetic energy: if the object is moving slower.
 - 13. _____ Potential energy if the object has less mass.
 - 14. _____ Potential energy if an object is moved to the moon.
15. A 6 kg object moving 2 m/s has how much kinetic energy?
(This is the last time I write “show work” - I expect it, now.)

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16. A 3 kg object is at the top of a 4 m tall table. Calculate its potential energy.

17. A 8 kg object has 64 Joules of kinetic energy.

A) Write a variable list and formula:

B) Put numbers into the formula:

C) Solve.