Energy Calculations Worksheet

 A shot putter heaves a 7.26kg shot with a final velocity of 7.5m/s. What is the kinetic energy of the shot?

 $E_k=\frac{1}{2} \cdot m \cdot v^2$ $E_k=\frac{1}{2} \cdot 7.26 \text{kg} \cdot (7.5 \text{m/s})^2$ $E_k=204.18 \text{ J}$

2. What is the final velocity of a 5700kg truck, if 2 200 000J of energy is used to accelerate it? $E_k\!=\!\%\cdot m\cdot v^2$

2200000=½ · 5700 kg · v² 2200000=2850 · v² 2200000/2850=v² v²=771.93 v=27.78m/s

- 3. A 2kg textbook is lifted from the floor to a shelf 2.10m above the floor.
 - (a) What is the gravitational potential energy of the book relative to the floor?

 $E_p=m \cdot g \cdot h$ $E_p=2 kg \cdot 9.8 m/s^2 \cdot 2.1 m$ $E_p=19.6 \cdot 2.1$ $E_p=41.16 J$

> (b) What is its gravitational potential energy relative to the head of a 1.65m tall person?

 $E_g = m \cdot g \cdot h$ $E_g = 2 \text{ kg} \cdot 9.8 \text{m/s}^2 \cdot 1.65 \text{m}$ $E_g = 2 \cdot 16.75$ $E_g = 33.5 \text{ J}$

 A bike rider approaches a hill with a speed if 8.5m/s. The total mass of the rider and the bike is 85kg.

(a) Find the kinetic energy of the bike and rider.

 $E_k=\frac{1}{2} \cdot m \cdot v^2$ $E_k=\frac{1}{2} \cdot 85 \text{ kg} \cdot 8.5^2 \text{ m/s}$ $E_k=32.5 \cdot (8.5\text{m/s})^2$ $E_k=3070.63 \text{ J}$

> (b) The rider coasts up the hill. Assuming there is no friction, at what height will the bike come to a stop?

3070.63=85 kg · 9.8m/s² · h 3070.63=833 · h 3070.63/833=h h=3.69m

Physical Science 233

Wolfgang Guggemos

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