

Bryan-Science 8
Homework assignment – Answer key

Energy Calculations Worksheet

1. 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?

$$E_k = \frac{1}{2} \cdot m \cdot v^2$$

$$2200000 = \frac{1}{2} \cdot 5700 \text{ kg} \cdot v^2$$

$$2200000 = 2850 \cdot v^2$$

$$2200000/2850 = v^2$$

$$v^2 = 771.93$$

$$v = 27.78\text{m/s}$$

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?

$$E_p = m \cdot g \cdot h$$

$$E_p = 2 \text{ kg} \cdot 9.8\text{m/s}^2 \cdot 2.1\text{m}$$

$$E_p = 19.6 \cdot 2.1$$

$$E_p = 41.16 \text{ J}$$

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

$$E_p = m \cdot g \cdot h$$

$$E_p = 2 \text{ kg} \cdot 9.8\text{m/s}^2 \cdot 1.65\text{m}$$

$$E_p = 2 \cdot 16.17$$

$$E_p = 32.34 \text{ J}$$

4. A bike rider approaches a hill with a speed of 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?

$$3070.63 = 85 \text{ kg} \cdot 9.8\text{m/s}^2 \cdot h$$

$$3070.63 = 833 \cdot h$$

$$3070.63/833 = h$$

$$h = 3.69\text{m}$$

Names And Formulas Worksheet Physical Science 233

Mike Jess



Names And Formulas Worksheet Physical Science 233:

Names And Formulas Worksheet Physical Science 233 Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Names And Formulas Worksheet Physical Science 233**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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