

Kinetic energy

A 7.00 kg bowling ball moves at 3.00 m/s. How much kinetic energy does the bowling ball have? How fast must a 2.45 g table-tennis ball move in order to have the same kinetic energy as the bowling ball? Is this speed reasonable for a table-tennis ball?

Given: The subscripts *b* and *t* indicate the bowling ball and the table-tennis ball, respectively.

$$m_b = 7.00 \text{ kg} \quad m_t = 2.45 \text{ g} \quad v_b = 3.00 \text{ m/s}$$

Unknown: $KE_b = ?$ $v_t = ?$

Use the kinetic energy equation:

$$KE_b = \frac{1}{2}m_b v_b^2 = \frac{1}{2}(7.00 \text{ kg})(3.00 \text{ m/s})^2 = 31.5 \text{ J}$$

$$KE_t = \frac{1}{2}m_t v_t^2 = KE_b = 31.5 \text{ J}$$

$$v_t = \sqrt{\frac{2KE_b}{m_t}} = \sqrt{\frac{(2)(31.5 \text{ J})}{2.45 \times 10^{-3} \text{ kg}}}$$

$$v_t = 1.60 \times 10^2 \text{ m/s}$$

This speed is much too high to be reasonable for a table-tennis ball.

Kinetic Energy Practice

1. Calculate the speed of an $8.0 \times 10^4 \text{ kg}$ airliner with a kinetic energy of $1.1 \times 10^9 \text{ J}$.
2. What is the speed of a 0.145 kg baseball if its kinetic energy is 109 J?
3. Two bullets have masses of 3.0 g and 6.0 g, respectively. Both are fired with a speed of 40.0 m/s. Which bullet has more kinetic energy? What is the ratio of their kinetic energies?
4. Two 3.0 g bullets are fired with speeds of 40.0 m/s and 80.0 m/s, respectively. What are their kinetic energies? Which bullet has more kinetic energy? What is the ratio of their kinetic energies?
5. A car has a kinetic energy of $4.32 \times 10^5 \text{ J}$ when traveling at a speed of 23 m/s. What is its mass?

Holt Science Spectrum Kinetic Energy Key

J Elliott



Holt Science Spectrum Kinetic Energy Key:

Holt Science Spectrum Kinetic Energy Key Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Holt Science Spectrum Kinetic Energy Key**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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