



KINETIC ENERGY



1. Use the following equation to help you complete the questions on this worksheet:

$$\text{Kinetic Energy} = 0.5 \times \text{Mass} \times (\text{speed})^2$$

(J) (kg) (m/s)

- a. A car with a mass of 200kg travels at a speed of 60 m/s.
Calculate the total kinetic energy of the car. [2 marks]
- b. A train with a mass of 2500kg travels at a speed of 200m/s.
Calculate the total kinetic energy of the aeroplane. [2 marks]
- c. A man throws a ball with a mass of 5kg and travels at a speed of 15m/s.
Calculate the total kinetic energy of the ball. [2 marks]
- d. A dog with a mass of 45kg is running through a field at a speed of 30m/s.
Calculate the total kinetic energy of the dog. [2 marks]
- e. John throw a biscuit at a speed of 10m/s. The biscuit had a mass of 3kg.
Calculate the total kinetic energy of the biscuit. [2 marks]
- f. A washing contains some t-shirts with a mass of 50kg. The washing is able to spin at 50m/s.
Calculate the total kinetic energy of the t-shirts inside the washing machine. [2 marks]
- g. Tim flicked a 2kg elastic band from his hand. The band travelled at a speed of 50m/s.
Calculate the total kinetic energy of the elastic band. [2 marks]
- h. The international space station travels around the Earth at a speed of 7.66km/s. It has a mass of 417,289kg.
Calculate the total kinetic energy of the elastic band. [3 marks]
- i. The average speed a horse can run at is 44km/s and an average mass of 500000g.
Calculate the total kinetic energy of an average horse when running. [4 marks]

Kinetic Energy Questions And Answers

LL Leslie



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Questions and Answers about Electrical Apparatus William Brasher Clayton, James Watt Craig, 1909 1,296 ACT Practice Questions Princeton Review, 2009-02 Presents over one thousand questions similar to those on the ACT exam covering topics in English language composition and mathematics and includes answers and explanations to each section

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Kinetic Energy Questions And Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. Kinetic Energy Questions And Answers : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pappen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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