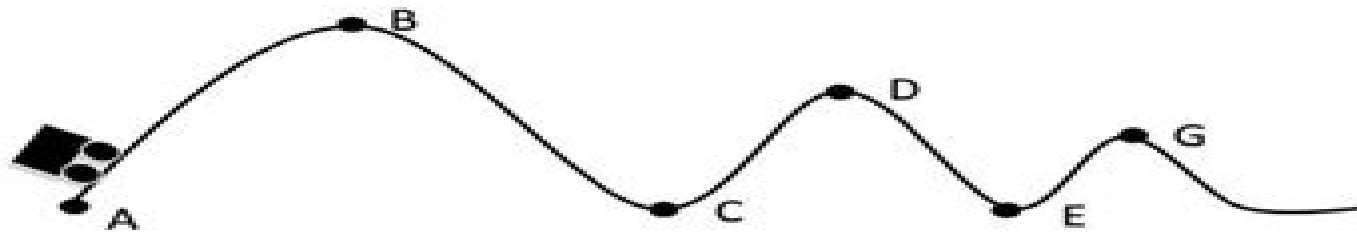


## Kinetic and Potential Energy Questions

KEY



A 710. kg car travels along a roller coaster track. The car starts from rest at point A.

- 1) At what point is the energy of the car equivalent to 0J?  
Point A
- 2) At what point(s) is potential energy the highest?  
Point B
- 3) Assuming this is a frictionless system, at what point(s) is kinetic energy the highest?  
Point C and Point E
- 4) How does the potential energy at point B compare to the potential energy at point D?  
The potential energy at point B is greater than point D.
- 5) How does the kinetic energy at point B compare to the kinetic energy at point G?  
The kinetic energy at point B is less than point G.

For questions 6 – 9 assume a frictionless environment. **\*\*All calculations use  $g=9.81 \text{ m/s}^2$  \*\***

- 6) Point B has a height of 45.0 m. What is the potential energy of the car? Round your answer to the correct number of significant figures.  
313,000 J
- 7) Point B has a height of 45.0 m. What is the speed of the car at point C? Round your answer to the correct number of significant figures.  
29.7 m/s
- 8) Point D has a height of 30.0 m. What is the speed of the car at point D?  
17.1 m/s
- 9) Point G has a height of 20.0 m. How much kinetic energy does the car have at point G?  
22.1 m/s
- 10) Why is B the highest point?

The first hill of a roller coaster is the highest because that is when total potential energy is the greatest.

# Kinetic Potential Energy Problems Answer Key

**Michael Hoelscher**



## **Kinetic Potential Energy Problems Answer Key:**

## **Kinetic Potential Energy Problems Answer Key Book Review: Unveiling the Magic of Language**

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Kinetic Potential Energy Problems Answer Key**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect 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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