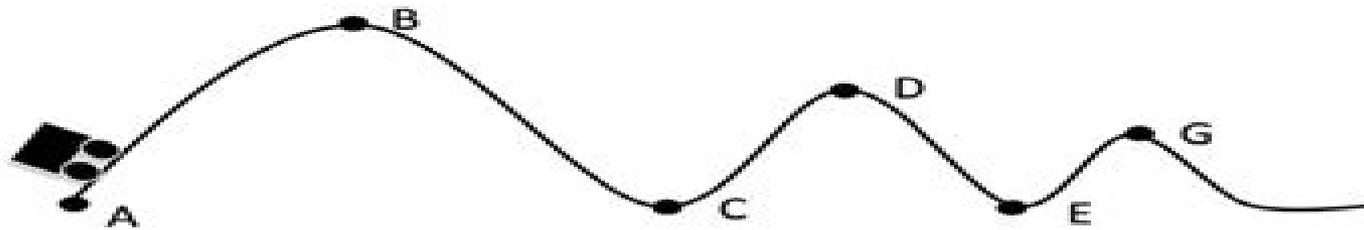


## Kinetic and Potential Energy Questions

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 Energy Questions And Answers

**Terry C. Jones**



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