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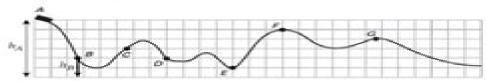
CLASS

Work and Energy

Diagram Skills

Conservation of Energy

A roller-coaster car with a mass of m moves along a smooth track as diagrammed in the graph below. The car leaves point A with no initial velocity and travels to other points along the track. The zero energy level is taken as the energy of point A.



- 1. a. What is the car's kinetic energy at point A? _____
 - b. What is the potential energy associated with the car at point A?
 - c. What is the car's kinetic energy at point B?
 - d. What is the potential energy associated with the car at point B?
- 2. e. What is the speed of the car at point A?
 - b. What is the speed of the car at point B? __
- Assume the mass of the car is 65.0 kg and it starts at 30.0 m above the ground. Use the graph above to find the kinetic energy, potential energy, and velocity for points C, D, E, F, and G to complete the table.

Location	KE_A	PE_{A}	KElocation	PElecation	Physiotics
C		1000	The second	The other contract	
D					
E					
F					
G					

For each location, what do you notice about the sum KE_A + PE_A compared with the sum KE_{Excellent} + PE_{Excellent}?

27

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Patrick Vollmar

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