

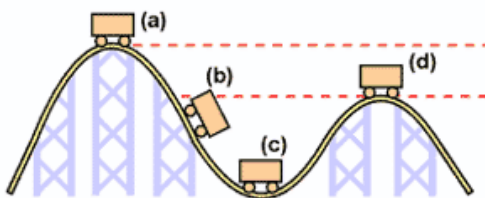
**Q1:** A toy car rolled down a ramp from different heights. The distance it traveled was then measured. Analyze the data in the chart below to answer the following questions.

Height of Ramp	Distance car traveled
6 in	5 ft
9 in	?
12 in	15 ft

How far did the car most likely travel at 9 inches.

- A 1 ft
- B 5 ft
- C 10 ft
- D 17 ft

**Q2:** At which point is there the most potential energy? At which point is there the most kinetic energy?



- A Potential energy A; Kinetic energy B
- B Potential energy C; Kinetic energy D
- C Potential energy B; Kinetic energy D
- D Potential energy A; Kinetic energy D

**Q3:** Which of the following is an example of a collision you would see on a baseball field?

- A** The ball hitting the bat
  - B** The ball hitting the ground
  - C** The ball hitting a glove
  - D** All of the above
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**Q4:** Which is NOT an example of work?

- A** Lifting a box
  - B** Moving a pencil across the desk
  - C** Laying on the couch
  - D** Putting the dishes away
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**Q5:** When an energy is in motion, it is called...

- A** kinetic
  - B** potential
  - C** invisible
  - D** none of the above
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**Q6:** Energy cannot be

- A** Created
  - B** Destroyed
  - C** Transferred
  - D** Moved
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**Q7:** Match the following vocabulary words.

work



collision



force



constraint



Energy



restraint



**ANSWER CHOICES**

hold something back, limit movement

a push or pull that can make an object move, stop moving, or change directions

a limitation or a restriction such as time, materials, or size

when two object bump into each other

a result of force moving an object a certain distance

the ability to do work

**Q8:** If a car you in is traveling at 50 mph and hits another car, would the force throw you forward or backward?