

Name: _____

Date: _____

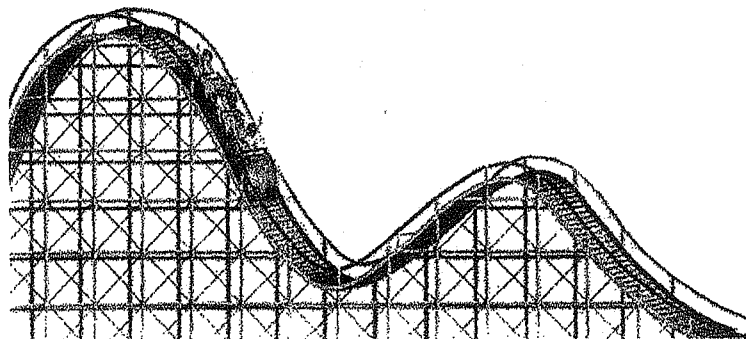
Kinetic and Potential Energy

Directions: Circle the one possessing more potential energy and briefly explain your choice.

1. A 25 kg bag of sand or a 30 kg bag of sand at the top of a hill?
2. A car at the top of the hill or the bottom of a hill?
3. A plane on the ground or a plane in the air?
4. A full plane or an empty plane (both are flying)?

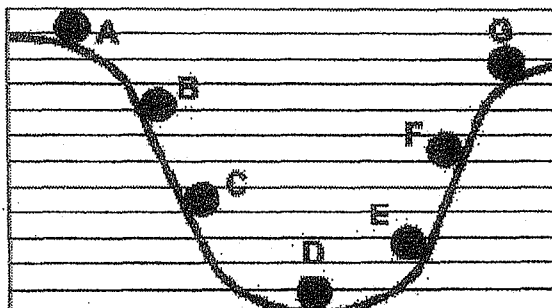
Directions: Circle the one that demonstrates more kinetic energy and briefly explain your choice.

5. A 25 kg dog or a 30 kg dog going 2 m/s.
6. Two 10 kg masses, one going 75 m/s, one going 45 m/s.
7. A car at rest or a car rolling down a hill.
8. A heavy bike or a light bike.



Name: _____ Period: _____ Date: _____
 Unit 1: Energy Kinetic versus Potential Energy Practice

Part 1: This graph shows a ball rolling from A to G.



1. Which letter shows the ball when it has the maximum kinetic NRG? _____
2. Which letter shows the ball when it has the maximum potential NRG? _____
3. Which letter shows the ball when it has the least potential NRG? _____
4. Which letter shows the ball when it has the least kinetic NRG? _____
5. Which letter shows the ball when it has just a little more kinetic NRG than A? _____
6. Which letter shows the ball when it has just a little more potential NRG than letter C? _____
7. Which letter shows the ball when it has just a little less potential energy than letter F? _____
8. Which letter shows the ball when it has just a little more kinetic energy than letter G? _____
9. Which letter shows the ball when it has just a little less kinetic energy than letter D? _____
10. Which letter shows the ball when it has just a little less potential energy than letter C? _____
11. Which sequence correctly shows an increase in potential energy?

A. E, F, B, G	B. B, F, E, C
C. D, E, B, F	D. A, G, F, C
12. Which sequence correctly shows an increase in kinetic energy?

A. E, F, B, G	B. B, F, E, C
C. D, E, B, F	D. A, G, F, C
13. Which sequence correctly shows a decrease in kinetic energy?

A. E, F, B, G	B. B, F, E, C
C. D, E, B, F	D. A, G, F, C
14. Which sequence correctly shows a decrease in potential energy?

A. E, F, B, G	B. B, F, E, C
C. D, E, B, F	D. A, G, F, C