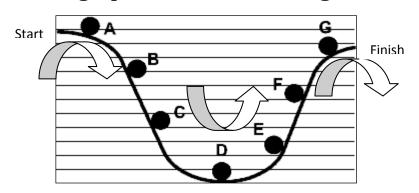
Kinetic VS Potential Energy Practice

Science

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



- 1. Which letter shows the ball when it has the maximum kinetic energy? _____
- 2. Which letter shows the ball when it has the maximum potential energy? _____
- 3. Which letter shows the ball when it has the least potential energy? _____
- 4. Which letter shows the ball when it has the least kinetic energy? _____
- 5. Which letter shows the ball when it has just a little more kinetic energy than A? _____
- 6. Which letter shows the ball when it has just a little more potential energy 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 a resulting increase in potential energy?
 - **A.** C, D, E, F

B. B, F, E, C

C. D, E, B, F

- **D.** A, G, F, C
- 12. Which sequence correctly shows a resulting increase in kinetic energy?
- **A.** E, F, B, G

B. B, F, E, C

C. D, E, B, F

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

B. B, F, E, C

C. D, E, F, G

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

B. A, B, C, D

C. D, E, B, F

D. A, G, F, C

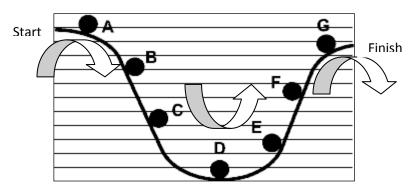
Part 2: Determine whether the objects in the problems have kinetic or potential energy.

1.	You serve a volleyball with a mass of 2.1 kg. The ball leaves your hand with a speed of 30 m/s. The ball has energy.
2.	A baby carriage is sitting at the top of a hill that is 21 m high. The carriage with the baby weighs 12 N. The carriage has energy.
3.	A car is traveling with a velocity of 40 m/s and has a mass of 1120 kg. The car has energy.
4.	A cinder block is sitting on a platform 20 m high. It weighs 79 N. The block has energy.
5.	There is a bell at the top of a tower that is 45 m high. The bell weighs 190 N. The bell has energy.
6.	A roller coaster is at the top of a 72 m hill and weighs 966 N. The coaster (at this moment) has energy.

Kinetic VS 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 energy? ______
- 2. Which letter shows the ball when it has the maximum potential energy? A
- 3. Which letter shows the ball when it has the least potential energy? ______
- 4. Which letter shows the ball when it has the least kinetic energy? ___A___
- 5. Which letter shows the ball when it has just a little more kinetic energy than A? _____
- 6. Which letter shows the ball when it has just a little more potential energy than letter C? F
- 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? _E_
 - 11. Which sequence correctly shows a resulting increase in potential energy?

- 12. Which sequence correctly shows a resulting increase in kinetic energy?
- **A.** E, F, B, G

B. B, F, E, C

C. D, E, B, F

D. A, B, C, D

13. Which sequence correctly shows a resulting decrease in kinetic energy?

A. E, F, B, G

B. B, F, E, C

C. D, E, F, G

D. A, G, F, C

14. Which sequence correctly shows a *resulting decrease in potential energy*?

A. E, F, B, G

B. A, B, C, D

C. D, E, B, F

D. A, G, F, C

Part 2: Determine whether the objects in the problems have kinetic or potential energy.

- 1. You serve a volleyball with a mass of 2.1 kg. The ball leaves your hand with a speed of 30 m/s. The ball has <u>KINETIC</u> energy.
- 2. A baby carriage is sitting at the top of a hill that is 21 m high. The carriage with the baby weighs 12 N. The carriage has **POTENTIAL** energy.
- 3. A car is traveling with a velocity of 40 m/s and has a mass of 1120 kg. The car has **KINETIC** energy.
- 4. A cinder block is sitting on a platform 20 m high. It weighs 79 N. The block has **POTENTIAL** energy.
- 5. There is a bell at the top of a tower that is 45 m high. The bell weighs 190 N. The bell has **POTENTIAL** energy.
- 6. A roller coaster is at the top of a 72 m hill and weighs 966 N. The coaster (at this moment) has **POTENTIAL** energy.