



Potential Energy

10 Questions

NAME : _____

CLASS : _____

DATE : _____

1. What is potential energy?

- ☐ a) The energy an object has due to its atomic structure.
- ☐ b) The energy an object has due to its chemical composition.
- ☐ c) The energy an object has due to its motion.
- ☐ d) The energy an object has due to its position or condition.

2. What is kinetic energy?

- ☐ a) The energy an object has due to its position or condition
- ☐ b) The energy an object has due to its motion
- ☐ c) The energy an object has due to its chemical composition
- ☐ d) The energy an object has due to its atomic structure

3. When does an object have no kinetic energy?

- ☐ a) When it's at rest.
- ☐ b) When it's moving very slowly.
- ☐ c) When the only force that's acting on it is gravity.
- ☐ d) When it has no electrical charge.

4. Which object has the most potential energy?

- ☐ a) A ball resting on the ground.
- ☐ b) A ball being thrown at 100 miles per hour.
- ☐ c) A ball on top of a refrigerator.
- ☐ d) A ball resting on the edge of a cliff.

5. When does a yo-yo have the most potential energy?

- ☐ a) When it's at its highest point.
- ☐ b) When it's at its lowest point.
- ☐ c) When it's moving between its highest and lowest points.
- ☐ d) When it's moving at its top speed.

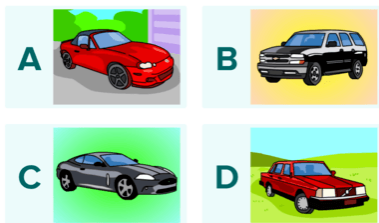
6. When is potential energy transformed into kinetic energy?

- ☐ a) When an object at rest is lifted to a higher elevation.
- ☐ b) When an object at rest remains at rest.
- ☐ c) When an object at rest is put into motion.
- ☐ d) When an object in motion is stopped and put at rest.

7. What do potential and kinetic energy have in common?

- ☐ a) They're both related to density.
- ☐ b) They're both unrelated to size.
- ☐ c) They're both related to volume.
- ☐ d) They're both related to motion.

8. Four cars are positioned at the top of a hill. Which car has the most potential energy?



- ☐ a) A
- ☐ b) B
- ☐ c) C
- ☐ d) D

9. Which is the best synonym for potential energy?

- ☐ a) Stored energy
- ☐ b) Energy of motion
- ☐ c) Energy due to gravity
- ☐ d) Mechanical energy

10. Why do objects at high elevations have more potential energy than objects at low elevations?

- ☐ a) Because the thinner air at higher elevations means objects have a greater potential to move very fast
- ☐ b) Because objects at high elevations are closer to the sun, which is the source of all energy on earth
- ☐ c) Because objects at high elevations tend to move slower than objects at low elevations
- ☐ d) Because gravity gives objects at high elevations the potential to fall much further

Answer Key

1. d

2. b

3. a

4. d

5. a

6. c

7. d

8. b

9. a

10. d