




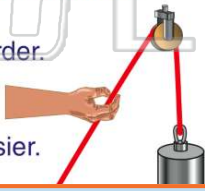
Name _____ Class _____ Date _____

1 What are two things that affect the **force of gravity**? 


- A size and what objects are made out of
- B size and color of objects
- C mass of objects and distance between them
- D location and texture of objects

2 Mark tried to push a large rock for 30 minutes but could not make it move even a centimeter. After trying for several more minutes, he finally gave up. He realized he **could not move the rock**. **Did Mark do work?**

- A no; because he did not move the rock at all
- B yes; because Mark tried
- C yes; because the rock was heavy
- D yes; because he was pushing on the rock

3 Which is **true** of **simple machines**? 

- A They make work harder.
- B They are all large and heavy.
- C They make work easier.
- D They are too simple.

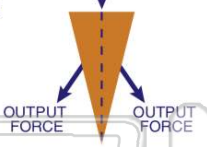
4 Which **simple machine** is being used to raise this flag? 

- A pulley
- B lever
- C wedge
- D inclined plane

5 

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7 

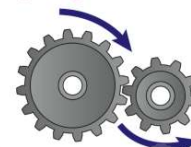
- A wheel and axle
- B gear
- C pulley
- D wedge

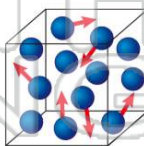
9 Scientifically, **work** occurs when an object is **moved**. _____ is the **ability to do work**.

- A Energy
- B Force
- C Gravity
- D Inertia



- A soccer ball
- B bicycle
- C flag up a flagpole
- D rocking chair



10 **Kinetic energy** is the energy of **motion**. Which is true of kinetic energy? 

- A All matter has kinetic energy.
- B Anything moving has kinetic energy.
- C Anything not moving has kinetic energy.
- D Anything about to move has kinetic energy.



ANSWER KEY

What are two things that affect the **force of gravity**?



- A size and what objects are made out of
- B size and color of objects
- C mass of objects and distance between them
- D location and texture of objects

(C)

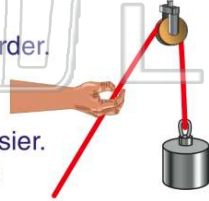
Mark tried to push a large rock for 30 minutes but could not make it move even a centimeter. After trying for several more minutes, he finally gave up. He realized he **could not move the rock**. Did Mark do **work**?

(a)

- A no; because he did not move the rock at all
- B yes; because Mark tried
- C yes; because the rock was heavy
- D yes; because he was pushing on the rock

Which is **true** of **simple machines**?

- A They make work harder.
- B They are all large and heavy.
- C They make work easier.
- D They are too simple to do any work.



(C)

Which **simple machine** is being used to raise this flag?



(a)

- A pulley
- B lever
- C wedge
- D inclined plane



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- B gear
- C pulley
- D wedge



- A soccer ball
- B bicycle
- C flag up a flagpole
- D rocking chair



Scientifically, **work** occurs when an object is **moved**. _____ is the **ability to do work**.

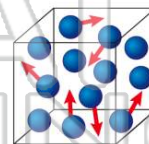
- A Energy
- B Force
- C Gravity
- D Inertia



(a)

Kinetic energy is the energy of **motion**. Which is true of kinetic energy?

- A All matter has kinetic energy.
- B Anything moving has kinetic energy.
- C Anything not moving has kinetic energy.
- D Anything about to move has kinetic energy.



(b)