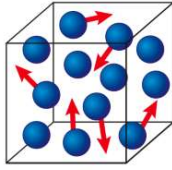




Name _____ Class _____ Date _____

- 1 What is the correct statement about **energy**?
- A** energy can be destroyed
B energy can be created
C energy cannot change forms
D energy cannot be destroyed or created



- 2 Use the formulas below to calculate the power (in Joules/minute) used by the tow truck. The tow truck must tow **1,000 newtons** for **10 meters** over a span of **30 minutes**.

$$\text{work} = \text{force} \times \text{distance}$$

$$\text{power} = \frac{\text{work}}{\text{time}}$$

- A** 1030.3 Joules/minute
B 40.33 Joules/minute
C 333.33 Joules/minute
D 300.33 Joules/minute



- 3 Use the diagram below to answer the following question. The skier at the top of the hill with the **greatest** amount of potential energy is the **larger** skier.

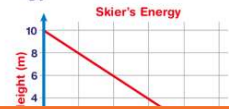


True or false?

A true

- 4 According to the graph below, as height **decreases**, the kinetic energy **increases**. At the **bottom** of the hill, what has happened to the skier's **potential** energy?

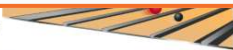
- A** it increased
B it decreased
C it stayed the same



PREVIEW

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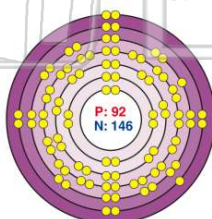
- 6
- more kinetic energy
B heavier ball has more kinetic energy
C lighter ball has more potential energy
D energy is the same regardless of mass



- B** it causes more air pollution than the use of nuclear power
C it uses up all the dinosaur fossils that we have
D it is used to create energy out of rocks

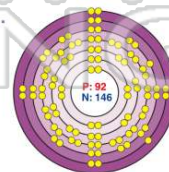
- 9 The **process** of **splitting the nuclei** of radioactive elements to release energy is called _____.

- A** nuclear energy
B nuclear fusion
C nuclear fission
D nuclear explosion



- 10 Nuclear **fusion** produces energy through the process of _____.

- A** breaking up certain radioactive atoms
B combining certain radioactive atoms
C breaking up certain fossil fuels
D combining certain fossil fuels

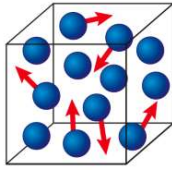




ANSWER KEY

What is the correct statement about **energy**?

- A energy can be destroyed
- B energy can be created
- C energy cannot change forms
- D energy cannot be destroyed or created



(d)

Use the formulas below to calculate the power (in Joules/minute) used by the tow truck.

The tow truck must tow **1,000 newtons** for **10 meters** over a span of **30 minutes**.

$$\text{work} = \text{force} \times \text{distance}$$

$$\text{power} = \frac{\text{work}}{\text{time}}$$

(c)

- A 1030.3 Joules/minute
- B 40.33 Joules/minute
- C 333.33 Joules/minute
- D 300.33 Joules/minute



Use the diagram below to answer the following question. The skier at the top of the hill with the **greatest** amount of potential energy is the **larger** skier.

True or false?

- A true
- B false



(a)

According to the graph below, as height **decreases**, the kinetic energy **increases**. At the **bottom** of the hill, what has happened to the skier's **potential** energy?

- A it increased
- B it decreased
- C it stayed the same
- D it is now higher than the kinetic



(b)



PREVIEW

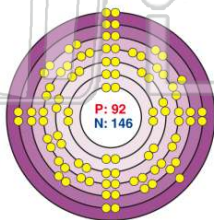
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- B heavier ball has more kinetic energy
- C lighter ball has more potential energy
- D energy is the same regardless of mass

- nuclear power
- C it uses up all the dinosaur fossils that we have
- D it is used to create energy out of rocks

The **process** of **splitting the nuclei** of radioactive elements to release energy is called _____.

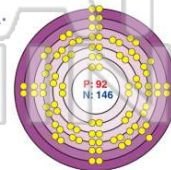
- A nuclear energy
- B nuclear fusion
- C nuclear fission
- D nuclear explosion



(c)

Nuclear **fusion** produces energy through the process of _____.

- A breaking up certain radioactive atoms
- B combining certain radioactive atoms
- C breaking up certain fossil fuels
- D combining certain fossil fuels



(b)