



Name _____ Class _____ Date _____

1 What is the most accurate relationship between **energy** and **power**?

- A power requires energy
- B power and energy are the same thing
- C energy and power are forms of matter
- D power does not require energy



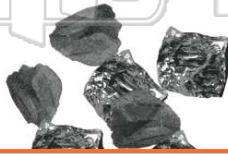
2 Coal is called a **fossil fuel**. What has originally given coal its **energy**?

- A coal is hard
- B coal is black
- C coal's energy builds up over time
- D coal has solar energy



3 In a coal-fired electrical power plant, the **original** form of energy is _____.

- A mechanical
- B electrical
- C nuclear
- D chemical



4 To create electricity, **coal** is **burned** to make turbines **move** which creates **electricity**. What is the correct series of energy transformations in a coal-burning power plant?

- A electrical to thermal to chemical to mechanical
- B chemical to thermal to mechanical to electrical



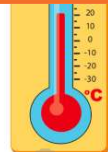
PREVIEW

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7 A _____
v _____
A _____
C _____
D _____
B chemical energy of a substance
C kinetic energy of particles in a substance
D mechanical energy of a substance

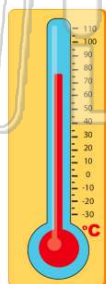
_____ have to be in order to boil water.

- A 32°C C 100°C
- B 78°C D 212°C



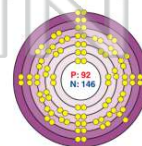
9 The **type of energy** measured by a thermometer is _____.

- A chemical
- B mechanical
- C thermal
- D electrical



10 In many **nuclear-powered** electrical power plants, the original energy comes from _____.

- A the turbines
- B the electrical wires
- C disintegrating radioactive atoms
- D the breaking of chemical bonds





ANSWER KEY

What is the most accurate relationship between **energy** and **power**?

- A power requires energy
- B power and energy are the same thing
- C energy and power are forms of matter
- D power does not require energy



(a)

Coal is called a **fossil fuel**. What has originally given coal its **energy**?

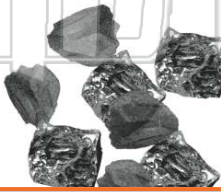
- A coal is hard
- B coal is black
- C coal's energy builds up over time
- D coal has solar energy



(d)

In a coal-fired electrical power plant, the **original** form of energy is _____.

- A mechanical
- B electrical
- C nuclear
- D chemical



(d)

To create electricity, **coal** is **burned** to make turbines **move** which creates **electricity**. What is the correct series of energy transformations in a coal-burning power plant?

- A electrical to thermal to chemical to mechanical
- B chemical to thermal to mechanical to electrical
- C thermal to mechanical to chemical to electrical

(b)



PREVIEW

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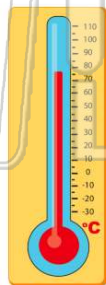
_____ a substance
D mechanical energy of a substance

- A 32°C C 100°C
- B 78°C D 212°C



The **type of energy** measured by a thermometer is _____.

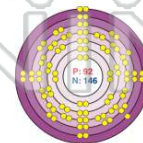
- A chemical
- B mechanical
- C thermal
- D electrical



(c)

In many **nuclear-powered** electrical power plants, the original energy comes from _____.

- A the turbines
- B the electrical wires
- C disintegrating radioactive atoms
- D the breaking of chemical bonds



(c)