QUEBEC SCIENCE AND THE ENVIRONMENT, SECONDARY IV · UNIT A · 10 QUESTIONS

Material World and the Environment — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Use the specific heat capacity of water as 4.19 joules per gram per degree Celsius. A sample of 250 grams of water warms by 4 degrees Celsius. The heat absorbed, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A covalent bond forms when atoms**

A transfer electrons

B share protons

C transfer neutrons

D share electrons

Understand It with Pulse | Flag a mistake

3 **Photosynthesis in green plants takes in carbon dioxide and water and releases**



A nitrogen

B hydrogen

C oxygen

D carbon monoxide

Understand It with Pulse | Flag a mistake

4 **The gas used with glucose in respiration to release energy is**

A nitrogen

B carbon dioxide

C helium

D oxygen

Understand It with Pulse | Flag a mistake

5 **The mole is a unit that counts**

A mass

B particles

C volume

D temperature

Understand It with Pulse | Flag a mistake

6 **When an acid reacts with a base, the main products are a salt and**

A water

B oxygen

C hydrogen

D carbon dioxide

Understand It with Pulse | Flag a mistake

7 **When more ions are present in a solution, its electrical conductivity usually**

A decreases

B stays the same

C increases

D disappears

Understand It with Pulse | Flag a mistake

8 **When salt dissolves in water to form a solution, the change is a**



A chemical change

B nuclear change

C combustion

D physical change

Understand It with Pulse | Flag a mistake

9

Use the specific heat capacity of water as 4.19 joules per gram per degree Celsius. A sample of 300 grams of water warms by 10 degrees Celsius. The heat absorbed, in joules, is

ANSWER _____

Understand It with Pulse | Flag a mistake

10

Use the specific heat capacity of water as 4.19 joules per gram per degree Celsius. A sample of 80 grams of water warms by 5 degrees Celsius. The heat absorbed, in joules, is

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 4190
2. D
3. C
4. D
5. B
6. A
7. C
8. D
9. 12570
10. 1676

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