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Crash Course Chemistry #17: Energy and Chemistry

Name: _____ Date: _____

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- Everything in the universe is ultimately a form of _____.
- The energy stored in the bonds between atoms is known as _____ energy.
- A _____ is a type of simple machine that stores gravitational potential energy.
- The force of gravity acting on an object due to its position gives it _____ energy.
- The idea that energy cannot be created or destroyed is known as the _____ of thermodynamics.
- In thermodynamics, the object or process being studied is referred to as the _____.
- The area outside of what is being studied in a thermodynamic process is called the _____.
- _____ is the transfer of energy due to thermal interaction.
- _____ is when a force acts on an object, causing it to move.
- The total energy within a system is referred to as its internal _____.
- The Greek letter _____ is used to symbolize change in a quantity, like energy.
- Energy transferred to a system results in a _____ value for ΔE .
- An _____ reaction absorbs heat from the surroundings.
- An _____ reaction releases heat into the surroundings.
- The study of energy, heat, and work in chemistry is called _____.

Crash Course Chemistry #17: Energy and Chemistry

- Everything in the universe is ultimately a form of **energy**.
- The energy stored in the bonds between atoms is known as **chemical energy**.
- A **trebuchet** is a type of simple machine that stores gravitational potential energy.
- The force of gravity acting on an object due to its position gives it **potential energy**.
- The idea that energy cannot be created or destroyed is known as the **first law** of thermodynamics.
- In thermodynamics, the object or process being studied is referred to as the **system**.
- The area outside of what is being studied in a thermodynamic process is called the **surroundings**.
- Heat** is the transfer of energy due to thermal interaction.
- Work** is when a force acts on an object, causing it to move.
- The total energy within a system is referred to as its **internal energy**.
- The Greek letter **delta (Δ)** is used to symbolize change in a quantity, like energy.
- Energy transferred to a system results in a **positive** value for ΔE .
- An **endothermic** reaction absorbs heat from the surroundings.
- An **exothermic** reaction releases heat into the surroundings.
- The study of energy, heat, and work in chemistry is called **thermodynamics**.

15 Questions

Answer Key Included

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