



Law of Conservation of Energy

10 Questions

NAME : _____

CLASS : _____

DATE : _____

1. The Law of Conservation of Energy states:

- ☐ a) Energy can created or destroyed but not transformed
- ☐ b) Energy cannot be created or destroyed, it can only transformed
- ☐ c) Energy can't be created, destroyed or transformed

2. According to the Law of Conservation of energy, the amount of energy before and after a reaction must be the same. Which statement below is true?

- ☐ a) The total amount of energy is conserved
- ☐ b) The total amount of energy is less after a reaction
- ☐ c) The total amount of energy is more after a reaction

3. Which energy transformation below matches?
A book falling?

- ☐ a) chemical to sound and heat
- ☐ b) kinetic to sound and heat
- ☐ c) electrical to sound and heat

4. Which energy transformation below matches?
Water moving over a dam to move a generator?

- ☐ a) kinetic to chemical
- ☐ b) kinetic to electrical
- ☐ c) solar to electrical

5. Which energy transformation below matches?
Green plants?

- ☐ a) chemical to mechanical
- ☐ b) chemical to heat
- ☐ c) solar to chemical

6. Which energy transformation below matches?

Animals eating food?

☐ a) electrical to potential

☐ b) chemical to kinetic

☐ c) potential to chemical

7. Which energy transformation below matches?

Burning coal or carbon-based fuel at a powerplant?

☐ a) chemical to heat to electrical

☐ b) mechanical to chemical to sound

☐ c) electrical to chemical to heat

8. Which energy transformation below matches?

An electrical circuit?

☐ a) chemical to heat, sound, light, mechanical

☐ b) solar to heat, sound, light, mechanical

☐ c) electrical to heat, sound, light, mechanical

9. Potential or kinetic?

Stretched bow and arrow?

☐ a) kinetic

☐ b) potential

10. Potential or kinetic?

Running?

☐ a) potential

☐ b) kinetic

Answer Key

1. b

2. a

3. b

4. b

5. c

6. b

7. a

8. c

9. b

10. b