

Science 8- Energy Types and Transformations Quiz

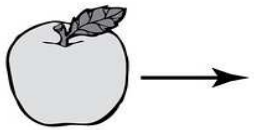
Match the example with the correct type of energy.

- | | | | |
|------|---|----|------------------------|
| 101. | Driving a car to the store | A. | Chemical Energy |
| 102. | Eating a banana | B. | Thermal(Heat) Energy |
| 103. | Using light from the sun to read a book | C. | Electrical Energy |
| 104. | Boiling water on the stove to cook soup | D. | Mechanical Energy |
| 105. | Plugging in your phone charger | E. | Electromagnetic Energy |

For numbers 6-13, use the word bank and choose the correct form of energy and its transformation.

A. Mechanical B. Chemical C. Electrical D. Electromagnetic E. Thermal AB. Nuclear

106.



107.

108.



109.



110.



111.



112.



113.



114. An object that can store energy as a result of its **position** is called:

- A. Potential Energy B. Kinetic Energy

115. The energy an object possesses due to its **motion** is called:

- A. Potential Energy B. Kinetic Energy

116. The **splitting** of an atom is called:

- A. Nuclear Fission B. Nuclear Fusion

117. Which of the following is **NOT** known has a phase transition?

- A. Evaporation C. Liquid
B. Melting D. Condensation

118. The **measurement** of the total amount of kinetic energy that the particles of a substance have is called _____.

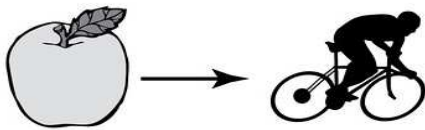
- A. Temperature C. Electrical Energy
B. Velocity D. Thermal Energy

Write the correct type of energy next to the example provided.

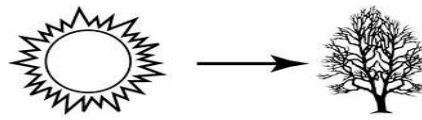
1. _____ Driving a car to the store
2. _____ Eating a banana
3. _____ Using light from the sun to read a book
4. _____ Boiling water on the stove to cook soup
5. _____ Plugging in your phone charger

For numbers 6-9, choose the correct form of energy and its transformation.

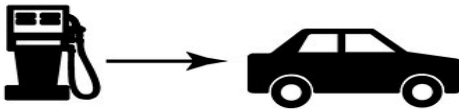
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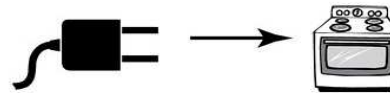
7.



8.



9.



10. An object that can store energy as a result of its position is called:

- A. Potential Energy B. Kinetic Energy

11. The total amount of energy that the particles of a substance have is called _____.

- A. Temperature C. Electrical Energy
B. Velocity D. Thermal Energy

12. What is the main difference between a renewable resource and a non-renewable resource?

Solve the following word problems using the kinetic and potential energy formulas (Be sure to show your work!)

13. Determine the kinetic energy of a 1000-kg roller coaster car that is moving with a speed of 20.0 m/s.

14. Find the potential energy of a 75-kg refrigerator that is located on the 70th floor of a skyscraper (300m)?

