

Name: _____

Date: _____

Hour: _____

Energy and Matter

Fill in the blanks in the table below:

Form of Energy	Example of Energy
1.	Bouncing Ball
Potential	2.
3.	Food
Electromagnetic	4.
5.	Moving electrons
Thermal Energy	6.

7. The energy an object has because of its position is _____ energy.

8. Circle the letter of each example of potential energy

- A. Rolling ball
- B. Stretched rubber band
- C. Bike at the top of a hill
- D. Bike coasting down a hill

9. During photosynthesis, plants transform _____ energy from the sun to _____ energy.

10. Give an example of how electromagnetic energy can cause changes in matter.

Match each term with the letter matching the description.

11. _____ kinetic energy a. Travels through space as waves
12. _____ potential energy b. Energy of matter in motion
13. _____ chemical energy c. Energy due to heat
14. _____ electrical energy d. Internal energy stored in chemical bonds
15. _____ electromagnetic energy e. Energy of matter due to its position
16. _____ thermal energy f. Energy of electrically charged particles
17. How are physical and chemical changes different from each other?

18. Circle the letter of each example of a physical change.

- A. Dissolving
- B. Burning
- C. Changing from a solid to a liquid
- D. Chopping

Write physical or chemical change next to each example:

Physical or Chemical?	Example
19.	Baking cookies
20.	Diamonds are used to cut glass
21.	Paper is crumpled up
22.	Water freezes to form ice
23.	Food spoiling
24.	Candle burning
25.	Candle melting