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| 1. Which material is the best conductor of electricity?    1. Wood    2. Metal    3. Stone    4. Plastic 2. Energy is transferred from the sun to Earth mainly by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    1. Sound Waves    2. Air Currents    3. Electromagnetic waves    4. Compressional Waves 3. Which is not a factor that will increase an object’s temperature?    1. Increasing the intensity of the light shining on it   B. Increasing the length of time  C. The amount of light reflected  D. Amount of light absorption   1. Light waves shining through an object is called what?    1. Absorption   B. Reflection  C. Transmitted  D. Scattered   1. When colors are detected by the human eye they can be classified as:    1. Infrared    2. Visible light    3. Ultraviolet    4. Radio waves   10. The drawing below shows a copper wire with a wooden handle being held in a flame. After a few minutes, what will most likely happen?     1. The light will change to electricity 2. The heat will travel through the wire. 3. The flame will get brighter. 4. The flame will go out.   11. Thermal energy is transferred through a material by the collision of \_\_\_\_\_\_\_\_\_within the material.   1. Matter 2. Atoms 3. Crystals 4. Light   12. Which of the following waves is not visible to the human eye?   1. Red light 2. Violet light 3. Ultraviolet light 4. Blue light   13. The change in the direction of a wave when it enters a new medium is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.   1. Diffraction 2. Reflection 3. Refraction 4. Superposition   14. Which of the following materials is the best insulator?   1. Copper 2. Nickel 3. Gold 4. Wood | 6. When you are riding a bicycle at night, your bicycle's reflectors help people in cars see your bicycle. How do bicycle reflectors work?   1. They are made of a special material that gives off its own light. 2. They are hooked up to batteries that allow them to produce light. 3. They bounce light back from other sources. 4. They are covered with paint that glows in the dark.   7. If you leave a chocolate chip cookie on a windowsill during a bright, sunny day how could you prevent it from melting?   1. Place it closer to the window. 2. Put an object over it so the sun is reflected. 3. Put a magnifying glass over the cookie. 4. Nothing, chocolate chips don’t melt.   8. In general, metals are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.     1. poor conductors of heat   B. brittle  C. poor conductors of electricity  D. good conductors of heat  9. What kind of energy does a moving baseball have?   1. Electrical 2. Magnetic 3. Mechanical 4. Chemical   15. The main method of heat transfer occurring within water is called \_\_\_\_\_\_\_\_\_\_.   1. Conduction 2. Convection 3. Radiation 4. Insulation   16. What is the primary source of energy on Earth?     1. The Sun 2. The moon 3. Water 4. Rock   17. What change of state is shown?     1. liquid to gas 2. solid to gas 3. gas to liquid 4. solid to liquid   18. When you hold an ice cube, your hand feels cold because   1. The cold flows from the ice cube to your hand by conduction 2. Heat flows from your hand to the ice cube by conduction 3. Ice is a poor conductor of heat. 4. Your hand is a better conductor of heat than the ice cube.   19. Which kind of energy is produced by generators at a dam?   1. Nuclear 2. Electrical 3. Chemical 4. Solar |
| 20. What form of energy causes an ice cube to melt?    A. Mechanical  B. Magnetic  C. Sound  D. Heat  **Cumulative Review**  21. What are often called the building blocks of matter?     1. Cells 2. Elements 3. Compounds 4. Atom   22.Which of the following involves a change in physical properties only?   1. Baking of a loaf of bread 2. Burning wood in a fire 3. Freezing water into ice 4. Mixing with an acid.   23. What is the name of the change that occurs when a gas turns into a liquid?   1. Condensation 2. Meltin 3. Duplication 4. Vaporization   24. When a substance loses heat, \_\_\_\_\_\_\_\_\_\_\_\_\_\_.   1. Its molecules slow down 2. Its molecules speed up 3. Its molecules are not affected 4. Its molecules break apart | 25. The distance between atoms is often affected by temperature. The diagrams show water at three different temperatures.  Screenshot 2015-07-06 at 1.00.00 PM.png  Which order of the diagrams indicates **INCREASING** distance between atoms?   1. 1,2,3 2. 2,3,1 3. 3,2,1 4. 1,3,2     26. Which of the following methods will cause the molecules in a cup of water to move slower?   1. Heating the water 2. Stirring the water 3. Swirling the water 4. Cooling the water   27. Which of the following involves a change in chemical properties?   1. Boiling water to make steam 2. Mixing baking soda and vinegar to make a bubbles of carbon dioxide 3. Melting a bar of solid gold to make liquid gold 4. Tearing a piece of paper to make smaller pieces of paper |

Answer Key

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| 1. B | 6.P.3.3 |  | 16. A | 6.P.3.1 |
| 2. C | 6.P.3.2 |  | 17. A | 6.P.3.2 |
| 3. C | 6.P.3.2 |  | 18. B | 6.P.3.2 |
| 4. C | 6.P.3.2 |  | 19. B | 6.P.3.1 |
| 5. B | 6.P.3.2 |  | 20. D | 6.P.3.1 |
| 6. C | 6.P.3.2 |  | 21. D | 6.P.2.1 |
| 7. B | 6.P.3.2 |  | 22. C | 6.P.2.3 |
| 8. D | 6.P.3.3 |  | 23. A | 6.P.2.2 |
| 9. C | 6.P.3.1 |  | 24. A | 6.P.2.2 |
| 10. B | 6.P.3.3 |  | 25. D | 6.P.2.2 |
| 11. B | 6.P.3.1 |  | 26. D | 6.P.2.2 |
| 12. C | 6.P.3.3 |  | 27. B | 6.P.2.3 |
| 13. C | 6.P.3.2 |  |  |  |
| 14. D | 6.P.3.2 |  |  |  |
| 15. B | 6.P.3.3 |  |  |  |