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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Work, Energy, and Power

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|  |  |  |  |  |  | 2  G | R | A | V | I | T | A | T | I | O | N | A | L |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | 6  F | O | R | C | E |  | I |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 7  C |  |  |  |  |  |  | K |  | M |  | C |  | 8  N |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | L |  |  |  |  |  |  | E |  | I |  | A |  | O |  | 9  K |  |  |  | 10  T |  |  |  |  |  |
|  |  |  |  |  | O |  | 11  M | E | 12  C | H | A | N | I | C | A | L |  | N |  | I |  |  |  | O |  |  |  |  |  |
|  |  |  |  |  | S |  |  |  | O |  |  | E |  | A |  |  |  | C |  | N |  |  |  | T |  |  |  |  |  |
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|  |  |  |  |  | P |  |  |  | E |  |  | Y |  | 14  J |  |  |  | S |  | I |  |  |  | E |  |  |  |  |  |
|  |  |  |  |  | A |  |  | 15  F | R | I | C | T | I | O | N |  |  | E |  | C |  |  |  | N |  |  |  |  |  |
|  |  |  |  |  | T |  |  |  | V |  |  | H |  | U |  | 16  W |  | R |  | E |  |  |  | E |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  | T |  | 17  P | O | T | E | N | T | I | A | L | E | N | E | R | G | Y |  |  |  |  |
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|  |  |  |  |  |  |  |  |  | O |  |  |  |  | 18  W |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 19  C | O | N | S | E | R | V | A | T | I | O | N | O | F | E | N | E | R | G | Y |  |  |  |  |  |  |
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| **Across**  **2.** form of energy involved in weighing fruit on a spring energy  **3.** a stretched rubber band or a stretched or compressed spring are examples of which potential energy  **6.** a push or pull  **11.** the sum of an object's potential and kinetic energy  **13.** work done in a certain amount of time  **15.** the force that opposes motion between two surfaces that are in contact  **17.** stored energy  **19.** states that energy cannot be created nor destroyed, but only transformed from one form into another  **20.** the ability to do work | **Down**  **1.** friction converts kinetic energy to  **4.** the net work done on an object is equal to its change in kinetic and potential energy  **5.** energy that is stored in chemical bonds  **7.** a roller coaster track is an example of a  **8.** friction and air resistance is an example of what type of force  **9.** energy of a moving object  **10.** the sum of kinetic energy and all forms of potential energy  **12.** the gravitation force is called a  **14.** SI unit of work  **16.** he unit of power equal to one joule of energy transferred in one second  **18.** the product of the force exerted on an object and the distance the object moves in the direction of the force |