**Chapter 14: Work, Power, & Machines Vocabulary Review**

**MATCHING** **Place the word and letter in the blank next to the correct definition.**

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| a. | work | n. | output distance |
| b. | power | o. | work output |
| c. | joule (J) | p. | input force |
| d. | watt (W) | q. | work input |
| e. | machine | r. | work output |
| f. | lever | s. | output force |
| g. | fulcrum | t. | mechanical advantage (MA) |
| h. | input arm | u. | ideal mechanical advantage (IMA) |
| i. | output arm | v. | efficiency |
| j. | wheel & axle | w. | screw |
| k. | inclined plane | x. | pulley |
| l. | wedge | y. | compound machine |
| m. | input distance | z. | friction |

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| **Letter** | **Word** | **Definition** |
| 1 |  | the product of distance and the force in the direction an object moves |
| 2 |  | the force exerted by a machine |
| 3 |  | the SI unit for work |
| 4 |  | the mechanical advantage of a machine in the absence of friction |
| 5 |  | a force that opposes the motion of objects that touch as they move past each other |
| 6 |  | the force exerted on a machine |
| 7 |  | the work done by a machine as the output force acts through the output distance |
| 8 |  | the fixed point a lever rotates around |
| 9 |  | the percentage of the work input that becomes work output in a machine |
| 10 |  | a combination of two or more simple machines that operate together |
| 11 |  |  The distance between the fulcrum in a lever and the input force |
| 12 |  | a device that changes a force and makes work easier |
| 13 |  | the number of times that a machine increases an input force |
| 14 |  |  the distance through which the input forces acts in a machine |
| 15 |  | the distance an output force acts through in a machine |
| 16 |   |  a slanted surface along which force moves an object to a different elevation |
| 17 |  | an inclined plane wrapped around a cylinder |

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| 18 |  | the work done by a machine as the output force acts through the output distance |
| 19 |  | a simple machine that consists of two rigidly attached disks or cylinders, each one with a different radius |
| 20 |  | a rigid bar that is free to move around a fixed point |
| 21 |  | a V-shaped object whose sides are two inclined planes sloped toward each other |
| 22 |  | Th the SI unit for power, equal to one joule per second |
| 23 |  | the work done on a machine as the input force acts through the input distance |
| 24 |  | the rate of doing work |
| 25 |  | a simple machine that consists of a rope that fits into a groove in a wheel |
| 26 |  | the distance between the fulcrum in a lever and the output force |

**Directions: In the table below, identify the six (6) simple machines and give an example of each.** *Do NOT use the picture(s) provided as your examples.*

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| 30\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_http://cnx.org/content/m23853/latest/Picture%201.pngExample: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 31\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_http://ed101.bu.edu/StudentDoc/Archives/ED101sp06/cjhpyo/inclineplanecolored.jpgExample: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 32\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_http://t1.gstatic.com/images?q=tbn:ANd9GcT4uUBKRzKOZNG9OBG9Zsp4VIEOoGUmMrRHCVlO8LJe-2jHnkw9:www.indiainnovates.com/images/products/pulley_stopper.jpgExample: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |