**Unit 11 – Simple Machines**

1. A simple machine like a pulley makes work easier by

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| A. Increasing the force needed by increasing the distance. |
| B. Decreasing the force needed by increasing the distance. |
| C. Increasing the force needed by decreasing the distance. |
| D. Decreasing the force needed by decreasing the distance. |

1. Which of the following is an example of a lever?

|  |  |
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| A. See-saw or teeter-totter |  |
| B. Gear |  |
| C. Wheelchair Ramp |  |
| D. None of these are levers |

1. If you needed to get something heavy to a location that is very high up, which simple machine would be the most useful?

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| A. Inclined plane |
| B. pulley |
| C. lever |
| D. None of these would help. |

1. Simple machines make work easier by changing the \_\_\_\_\_\_\_\_\_\_\_\_\_ and/or \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the force applied.
2. Complete the following table regarding the 6 different types of simple machines.

|  |  |  |
| --- | --- | --- |
| **Simple Machine** | **Uses** (How Does It Work??) | **Examples**  (list at least 3 for each type of simple machine) |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |
| 4. |  |  |
| 5. |  |  |
| 6. |  |  |

1. Name an object you use at home that is a simple machine. Explain how that simple machine makes work easier for you.
2. Name an object you use at home that is a compound machine. List all of the simple machines that make up the compound machine and explain how that compound machine makes work easier for you.