**Unit 11 – Simple Machines**

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

|  |
| --- |
|  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?

|  |  |
| --- | --- |
|  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?

|  |
| --- |
|  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.