**Simple Machines Project**

**Group Members\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Simple Machine Topic\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Background:**

A simple machine is a non-motorized device that changes the direction or magnitude of a [force](http://en.wikipedia.org/wiki/Force). In general, a simple machine can be defined as one of the simplest mechanisms that provide [mechanical advantage](http://en.wikipedia.org/wiki/Mechanical_advantage) (also called [leverage](http://en.wikipedia.org/wiki/Lever)).

There are six types of simple machines:

* [Lever](http://en.wikipedia.org/wiki/Lever)
* [Wheel and axle](http://en.wikipedia.org/wiki/Wheel_and_axle)
* [Pulley](http://en.wikipedia.org/wiki/Pulley)
* [Inclined plane](http://en.wikipedia.org/wiki/Inclined_plane)
* [Wedge](http://en.wikipedia.org/wiki/Wedge_(mechanical_device))
* [Screw](http://en.wikipedia.org/wiki/Screw_(simple_machine))

**Your Task:**

You and your friend have been arguing over which simple machine you believe makes work easiest, so the two of you decide to create presentations to prove your point to the rest of your friends. Your task is to create a digital presentation of a simple machine. You are to **create** a **Smore, Glog, or Powtoon** featuring one of the six types of simple machines.

**Required Information:**

* Explain what your machine is and its purpose. (How it eases a work load?)
* Explain in detail the types of work machines involve. (Work In and Work Out)
* Explain the difference between AMA and IMA.  
  Explain why all machines are not 100% efficient.
* Identify the two forces that work against machines.
* Pros (good things) for using your chosen simple machine. (How it makes life easier?)
* At least 2 examples of your simple machine being used in the real world.
* At least 1 diagram illustrating how your machine is used
* At least 3 real world pictures of your machine.
* Choose an example of your simple machine being used in a compound machine.
  + Explain what the compound machine does and how it makes life easier.
  + Include at least one picture of the compound machine.
* Rube Goldberg
  + Tell the accomplishments of Rube Goldberg and his device
  + Picture showing one of his devices he created
* Sources/Credits

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