

Force and Work-

- 1.) To be considered work, you have to have a force and a distance through which the force acts.
- 2.) What is the formula for work? work = force x distance What is the unit for work? joules
- 3.) What does something have to do to be considered a machine?
A machine is any device that makes doing work easier.
- 4.) Decide if work is done for each of the following: (Are the requirements for WORK met?)
- a. Someone is sitting on a cushion on the floor. Work or **NO work**
 - b. A baseball is hit into the bleachers. **Work** or NO work
 - c. Ms. Jarrett holds a doorstop in one place to show you an example of a wedge.
Work or **NO work**
 - d. A little girl is pushed on a swing. **Work** or NO work

Simple Machines Basics

- 1.) What are the 2 basic types of simple of machines, of which all other simple machines are variations of? Also list the other simple machines in the correct category under the heading.

<u>inclined planes</u>	&	<u>levers</u>
Wedge		pulley
Screw		wheel and axle

- 2.) In general, what do most simple machines do?

Simple machines make work easier by reducing the force needed.

- 3.) Do simple machines make less work? Explain.

No. Simple machines make work easier, they do not decrease the amount of work. Simple machines can actually make more work due to friction.

- 4.) What do we mean when we say "machines make work easier?" (force vs. distance)

Simple machines make work easier to do by decreasing the force required by increasing the distance over which the work is done.

- 5.) A force applied by a machine to an object is the?

a.) **resistance force** b.) effort force c.) force field d.) Jedi force

- 6.) A force applied to a machine by a person is the?

a.) resistance force b.) **effort force** c.) force field d.) Jedi force

- 7.) Simple machines make work easier, however there are 2 exceptions to this rule. What are the exceptions, and in each case, what is the "advantage" each machine gives us?

1. **single fixed pulley – changes the direction of a force**

2. **3rd class lever – gives us increased speed**

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