

Name _____

Date _____

Simple Machines Test

Section One: Levers

Without using the same class of lever, create two lever drawing in the space below

Make sure to include the location of the following

- a) fulcrum
- b) effort force
- c) load
- d) class of lever: first, second or third

What is the mechanical advantage of a second class lever?

Identify the following Levers: Write First Class, Second Class or Third

Class in the space provided

Hockey Stick _____ Class Lever Chop Sticks _____ Class Lever

Wheel Barrow _____ Class Lever Golf Club _____ Class Lever

Teeter-Totter _____ Class Lever Cupboard Door _____ Class Lever

Section Two: Pulleys

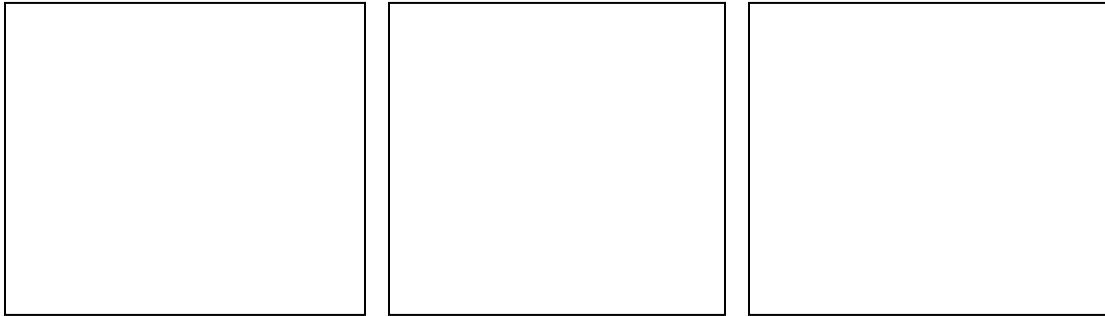
Complete the following chart

	Fixed Pulley	Moveable Pulley	Combined Pulley
Illustration			
Advantages			Reduces the amount of effort force required Allows you to lift in the opposite direction of the load being lifted
Disadvantages	You still use the same amount of effort force you would have used without the pulley		

Section Three: Incline Planes and Screws

Mr. Smitoesma needs to bring his priceless cheese down from their hiding shelf on top of Mr. Borsmith's Cupboard

Create three simple sketches showing three different incline planes he can use to retrieve his diamonds safely



What is the main advantage of an incline plane?

What is the advantage of a screw over a nail?

List 4 different types of screws

Section Four: Wedges and Wheels and Axles

What two different functions do wedges have?

Wedges _____

Wedges _____

List 4 different types of wedges

_____, _____, _____, _____,

A window opener like the one found in this room is a compound machine.
List all of the simple machines it is made up of

Trivial Pursuit

1. If you had a baseball and you wanted to hit it as far as you possibly could, what class lever would you use? _____
2. A thirsty boy or girl standing in front of a deep well would be wise to choose a _____ to retrieve a bucket of water
3. If you wanted to fetch a dictionary from a high shelf, what simple machine would you create? _____
4. If you wanted to hold a door open, what simple machine would you use? _____
5. A fishing rod is what class of lever? _____