Name _____ **Date** _____

Simple Machines Test

Section One: Levers

Draw images of first and third class levers that you would find in the **real world**. Make sure to include the location of the following on each lever image: fulcrum, effort force, load, class of lever: first and 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

Scissors _____ Class Lever Paper Cutter _____Class Lever

Wheel Barrow _____ Class Lever Stapler _____ Class Lever

Cupboard Door _____ Class Lever Hockey Stick _____Class Lever

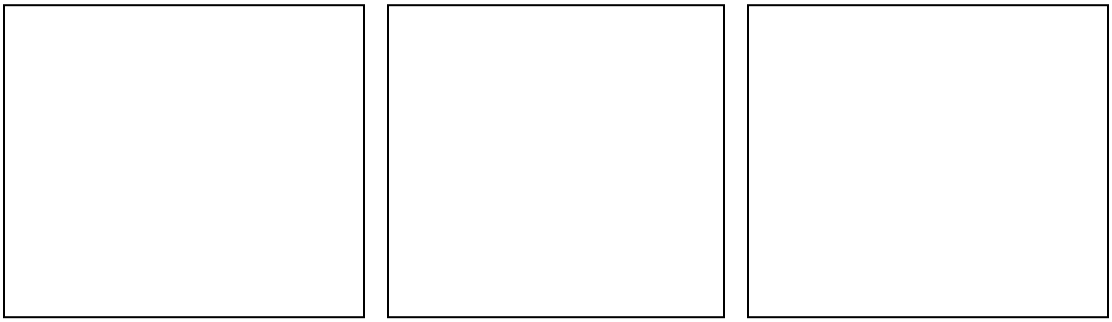
Section Two: Pulleys

Complete the following chart

	Fixed Pulley	Moveable Pulley	Combined Pulley
Illustration			
Advantages	You get to pull down, which is easier than pulling up		
Disadvantages			No real disadvantages

Section Three: Incline Planes and Screws

Draw images of 3 different types of screws that can be found in the real world



What is the disadvantage of an incline plane?

_____

_____

What is the advantage of a nail over a screw?

_____

_____

List 4 different types of incline planes

_____, _____, _____, _____,

Section Four: Wedges and Wheels and Axles

How does a wedge work? Complete the following sentence filling in the missing words:

A wedge works when you push on its _____ part. This gives you a mechanical advantage by changing the _____ of your _____.

There are two types of wedges. Most wedges, like the blade of an axe, are _____incline planes put together. These wedges are used to _____.

Other wedges, like a doorstop, have only one incline plane. These wedges are used to _____ or stop objects from moving.

Trivial Pursuit

1. If you had a golf ball and you wanted to hit it as far as you possibly could with your golf club, what class lever would you use? _____
2. Human teeth are examples of this simple machine: _____
3. An ulu is an example of this type of simple machine: _____
4. If you wanted to pry a rock up to look under it, what type of simple machine would you use? _____
5. A door handle is an example of this type of simple machine: _____