

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

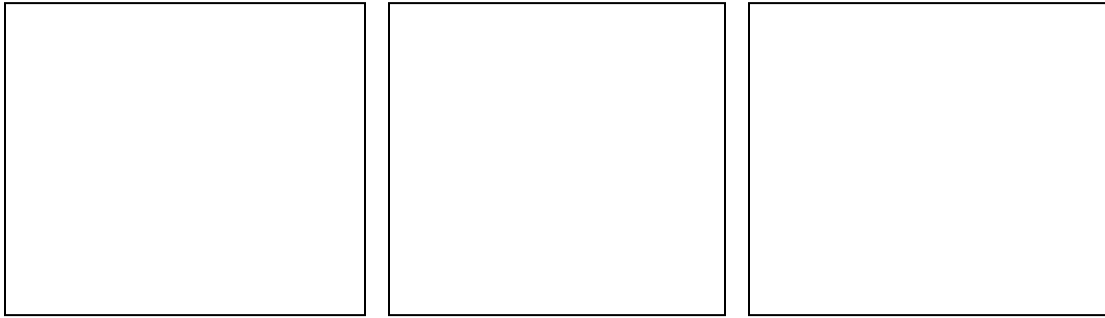
Section Two: Pulleys

Complete the following chart

	Fixed Pulley	Moveable Pulley	Combined Pulley
Illustration			
Advantages	Allows you to change the direction of the force	Allows you to use less effort force	
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

What two different functions do wedges have?

Wedges _____

Wedges _____

List 4 different types of wedges

_____, _____, _____, _____,

A Pencil Sharpener 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 golf ball and wanted to hit it as far as you possibly could, what class lever would you use? _____
2. If you a piece of paper you needed to staple to the bulletin board, would you use a lever or a wedge? _____
3. If you wanted to build a wheelchair access, what simple machine would you create? _____
4. If you split a piece of firewood in two what type of simple machine would you use? _____
5. If you wanted to lift a bucket out of a well, what type of simple machine would you use? _____