Simple Machines	Lab	Name:		
	Partne	er(s) Name:		
position, and record Trial 1		you will construct two of how this change af Trial 2 <i>Sket</i>		intage.
· · · · · · · · · · · · · · · · · · ·	e effort and resistance ler signs in the table below.	igths. Record their values	s, as well as the effort and	d resistance force used
	Effort length	Resistance length	Effort force	Resistance force
Trial 1	3			
Trial 2				
3 rd Class Lever Sta position, and record Trial 1	tion: At this station y	MA for both trials below ou will construct two 3 of how this change af Trial 2 Sket	3 rd class levers by char	nging the effort antage.
	signs in the table below.	igths. Record their values		
	Effort length	Resistance length	Effort force	Resistance force
Trial 1				
Trial 2				

Finally, show your calculations of IMA and AMA for both trials below by using your experimental data (4 calculations total).

length (height) of the	plane, and record you	ou will construct two i ur data for analysis of ge when a cart is pulled Trial 2	how this change affec	0 0
Sketch your exp	perimental set-up below.	Sket	ch your experimental sei	t-up below.
•	esigns in the table below.	igths. Record their values	, as well as the effort and	
	Fffort length	Resistance length	Fffort force	Resistance force

	Effort length	Resistance length	Effort force	Resistance force
Trial 1				
Trial 2				

Finally, show your calculations of IMA and AMA for both trials below by using your experimental data (4 calculations total).

Pulley Station: At this station you will construct two pulleys by changing the type of pulley system, and record your data for analysis of how this change affects ideal and actual mechanical advantage. Your pulley should be set with 0.15 for friction and a 5-N load in all trials.

Trial 1 Trial 2

Sketch your experimental set-up below.

Sketch your experimental set-up below.

In each sketch, label the name of the pulley system. Record the number of ropes, as well as the effort and resistance force used in testing your plane designs in the table below.

	Number of pulley ropes	Effort force	Resistance force
Trial 1			
Trial 2			

Finally, show your calculations of IMA and AMA for both trials below by using your experimental data (4 calculations total).