





Note: The discussion questions on the experiment sheets are only there to prompt discussion with your peers, you do not need to record answers.



Note: Each member should choose a different system.



## Simple Machine Experiments

Here is the rubric that will be used to grade your assignment. Note that each row does not carry the same weight.

Name:

Simple Machine Documentation

	Level				
Criteria	1	2	3	4	
		Criteria is o	completed		
Drawings Drawings of the system are to be neat, include the appropriate components, and clearly communicate the information about the system. From the drawing, one should clearly understand how the system was used.	with limited effectiveness	with some effectiveness	with effectiveness	with a high degree of effectiveness	
Dimensions Dimensions required to understand the use of the system are to be included <u>on the drawings</u> , with necessary units. Dimensions should clearly indicate what has been measured, using dimension lines/arrows as is necessary.	with limited effectiveness	with some effectiveness	with effectiveness	with a high degree of effectiveness	
Forces Forces applied to and obtained from the system are to be included <u>on the drawings</u> , clearly and appropriately labelled, with necessary units. A legend, defining the labels used for the forces, can be included to provide further clarity.	with limited effectiveness	with some effectiveness	with effectiveness	with a high degree of effectiveness	
Calculations Proper calculations are to be performed, using the equations and variables taught in class. Each calculation is to be neatly organized, spaced appropriately, using the formatting and layout as is required in science class. All calculations are to be accurately reported and include the appropriate information and units.	with limited effectiveness	with some effectiveness	with effectiveness	with a high degree of effectiveness	

Note: Choosing a system with an IMA of 1 is not level 4 work.





## **Calculation Practise**

You may use the remaining time to work on your Work, Efficiency and Mechanical Advantage worksheet. This will be your last in-class opportunity to work on this.

Please recall that you will hand in this worksheet, and that I will be checking it to see how much of it you have completed. If you are unsure of anything, you should be asking for assistance.

We will not be taking this work up in class, instead I will be posting full solutions online for you to reference.

The worksheet is due:

Work, Mechanical Advanage, and Efficiency	A factorization and a state of a set of a second state of the seco	58(+)	<ul> <li>Inclusion and an approximation for the second s</li></ul>	
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- 4-7 Experiment Sheets.pdf
- 4-6 Systems Calculations.pdf