Name:	DUE Date:

Summative 2: Investigating Mechanical Systems - Simple Machines

Overall Expectation(s): 3. Identify forces that act on and within structures and mechanisms, and describe the effects of these forces on structures and mechanisms and 2. Investigate forces that act on structures and mechanisms.

1. You will be researching one of the following **simple machines**:

	Harder	Ng
1st class Lever	Helen	Odessa
2nd class Lever	Josh	Maclaren
3rd class Lever	Shakiba	Harsath
ord class Level		Natalie
Inclined Plane	Maryam	Vicky H
inclined Plane		Viktoria
Wheel and Axle	Nick	Sophia
Wedge	Tara	Jacob
Screw	Raj	Shakur
Dullov	Daniel	Sierra
Pulley	Daniei	Julian

- 2. Required Information for your presentation:
- a. What is your **simple machine**? What is the simple machine's purpose?
- b. Identify the various **parts** of your simple machine that allow it to do its job efficiently and safely.
- c. Are there any **side effects / negatives/ disadvantages** of your system they may be social (community), economic (money) or environmental. List and explain them.
- d. Include a drawing or flow chart of your system. Make sure to clearly label the parts.
- 3. Prepare an **oral presentation** of your project using interesting graphics to maintain the interest of your classmates. Time limit of 10 minutes.
- 4. Include at least one of the following:
- a. Set-up a **demonstration** to illustrate concepts from your topic (3D model)
- b. Invite a **guest speaker** to talk to the class about your topic see me for assistance
- c. Provide the class with a hands-on mini-lab to illustrate some aspect of your project
- d. Make up a game at the end with at least 10 questions. Try to make it fun for the audience.

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	o What is your simple machine? What is the simple machine's purpose?	1	2	3	4
	o Identify the various parts of your simple machine	1	2	3	4
	 Are there any side effects / negatives/ disadvantages of your system 	1	2	3	4
	Social				
	Economic				
	 Environmental 				
	o Include a drawing or flow chart of your system. Make sure to clearly label the parts.	1	2	3	4
	o Oral presentation	1	2	3	4
	Comments				
		To	otal	/2	0

	Investigating Mechanical Systems – Simple Details	Illustration
1st class Lever		
2nd class Lever		
3rd class Lever		
Inclined Plane		

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	Details	Illustration
Wheel and Axle		
Wedge		
Screw		
Pulley		