## Simple Machines and Mechanical Advantage.notebook

## May 29, 2013

Warm Up 1.) Explain the electrical circuit components of your electro- boards; why/how does it work?	-the batteries (power source) supply the electrical energy that travels through the conductors (wires and brads) to power the light bulb (the load) when the	Warm Up -Simple Machines 1.) What do you think mechanical advantage means?	-the difference between the applied force and the work accomplished
2.) What are simple machines?	circuit is complete -machines that make life easier; they allow us to push or pull over greater distances	2.) How might you find the Mechanical Advantage of a machine?	-divide the resistance (output) force by the effort (input) force; usually the resistance force is the weight of the object
3.) Can you name some types of simple machines?	-pulleys, wedges, levers, screws, inclined planes	3.) What is mechanical efficiency?	-the effectiveness of the machine's performance

May 16-8:04 AM

May 17-7:43 AM



May 17-8:00 AM

WARM UP	
<ol> <li>What is the difference between a •</li> <li>simple and complex machine?</li> <li>What are some basis bousehold</li> </ol>	A simple machine is made of 1 componen while a complex machine is several simple machines put together
items that are considered complex machines, but are simply a few simple machines combined?	scissors, bikes, can openers, doors
•	the wheel
3.) Which simple machine is often said to be humankind's greatest invention?	

May 27-5:07 PM





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May 27-7:38 PM

Warm Up	
1.) Why might it help us to know	<ul> <li>so we know how much</li></ul>
the mechanical advantage of a	force is needed to
machine?	move an object
2.) A machine makes tasks easier by multiplying input	<ul> <li>forces OR distances; but not both at the same time</li> </ul>
3.) Can the mechanical advantage	<ul> <li>yes, but it doesn't</li></ul>
of a machine be less than 1?	mean it isn't useful





May 28-10:08 PM

	Let's Practice!
1.	Let's read through the information and examples first any volunteers?
2.	Work with your table partner to complete questions #1-7 on the back.
3.	Let's go over them together.
4.	Finish with questions #8-14. 🛛 🔛 🍻 🏹 🥼
5.	Let's go over them. Any questions?
6.	Homework: Complete the 10 question worksheet on Mechanical Advantage -due tomorrow! <i>Don't forget</i> <i>about your quiz tomorrow on simple machines</i> !

May 28-10:27 PM