

Name	 	

## Clever Levers on the 'Net

Begin by going to

http://www.enchantedlearning.com/physics/machines/Levers.shtml

## Read the information on the webpage to fill in the following blanks:

1.	A lever is a simple machine that make	seasier; it				
	involves moving a	around a pivot called a fulcrum using a				
	force. Many of our basic tools use leve					
2.	In a Type 1 [1 <sup>st</sup> class] Lever, the					
	effort and the load. In an off-center type one lever (like a pliers), the load					
	is larger than the effort, but is moved through a smaller					
3.	Examples of common tools (and other items) that use a type 1 [1st class]					
	lever include:					
	T T orond I II					
4.	• •	is between the pivot				
=	(fulcrum) and the effort.					
כ.	Examples of 2 <sup>nd</sup> class levers are:					
6.	In a Type 3 [3 <sup>rd</sup> class] Lever, the	is between the				
	pivot (fulcrum) and the load.					
7.	Examples of 3 <sup>rd</sup> class levers are:					

Now go to <a href="http://www.flying-pig.co.uk/mechanisms/pages/lever.html">http://www.flying-pig.co.uk/mechanisms/pages/lever.html</a>

8.	change the	evers are an essential part of many mechanisms. They can be used to hange the, the and the					
9.	of movement. The fixed point of the lever about which it moves is known as the						
	10. In the example on the webpage, the force and the load move in opposite directions. With the force three times closer to the fulcrum them the load lifted is only one of the force but it move three times as  lick the next link at the bottom of the page.						
11. First order lever. Like a see-saw or balance, the and the are separated by the fulcrum. As one moves up the other moves The amount and the strength of the movement are proportional to the from the fulcrum.  12. Second order lever. A wheel barrow is a second order lever. Here the load is between the and the fulcrum. This uses mechanical advantage to ease lifting of a large weight.  13. Third order lever. Here the is between the fulcrum and the load. Mechanical advantage is reduced but the movement at the load point is increased.  Draw and label a diagram of each of the 3 types of levers:							
	1 <sup>st</sup> Class	2 <sup>nd</sup> Class	3 <sup>rd</sup> Class				