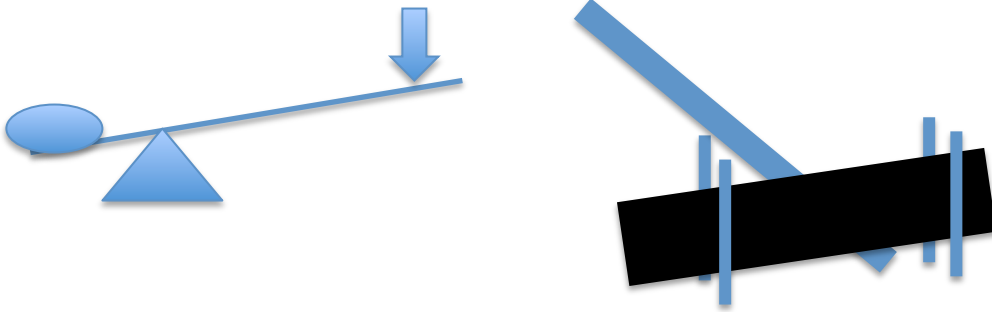


## Class One Lever



Each student will push down on the lever twice attempting to lift the log. The first attempt will be from the end of the pole and the second from the 2/3rd position. After each attempt they will record but not share their perception of the effort required on a scale of 1 to 10 with 1 being the easiest and 10 the hardest.

Student	Attempt 1	Attempt 2
One		
Two		
Three		
Four		
Five		

- The first class lever is the one you may be most familiar with. It uses a fulcrum in between, and the applied force and load are at opposite ends.

- The diagram above shows a first class lever set up to move a heavy load with a small applied force. The force must be applied over a long distance, in order to make the heavy load move just a small amount. By adjusting how far the fulcrum is from the load, you can control the mechanical advantage. The closer it is to the load, the more force is applied.