

LI: To investigate how levers work.

Watch the video about levers.

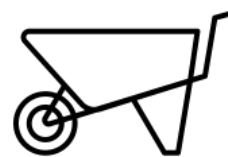
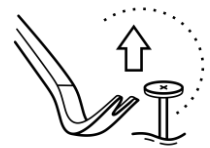
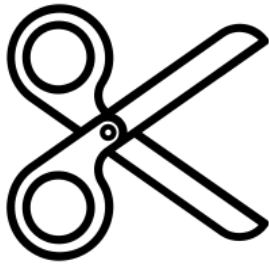
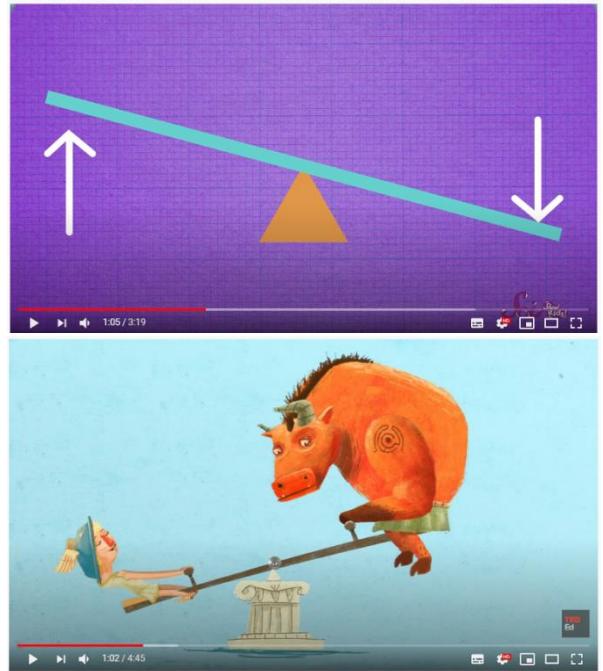
<https://www.youtube.com/watch?v=lueqE0lxLyc>

This video talks about it in a lot more detail.

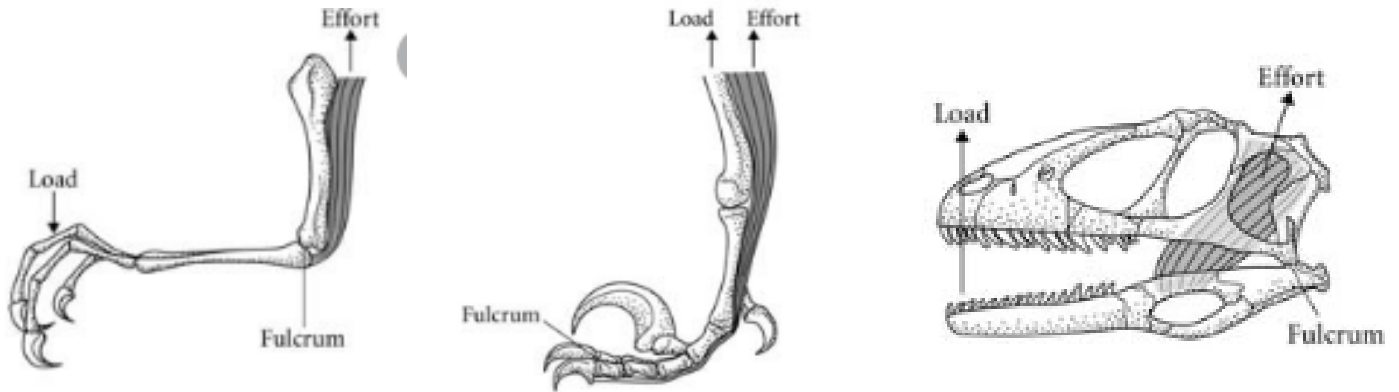
<https://www.youtube.com/watch?v=YIYEi0PgG1g>

Task 1

Which of the objects below do you think use the principles of levers to help make everyday tasks easier?



Answers: All of the objects shown are levers. (Scissors, nutcrackers, can openers, bottle openers, tweezers, crowbars and hammers, elbows, knees and wheelbarrows. There are more levers in human and animal bodies than you might expect. Look at parts of this dinosaur skeleton.



If you want to get really specific there are three types of levers. The type depends on:

- where the fulcrum is
- which direction the effort is applied
- where the load moves to

Task 2

What is the heaviest object you can lift using the 1kg or less (you could use a bag of sugar). Below are some ideas about how you could set up experiments. Don't forget to change where the fulcrum is placed.

