

Learning Objective: I can describe how a lever is made and explain how to balance an unbalanced lever.

Do Now:

1. Explain how an inclined plane makes 2 other simple machines.
2. Pick 1 simple machine and draw it. Add arrows and labels that show the input and output forces.

The LEVER

What are some real life levers you use?



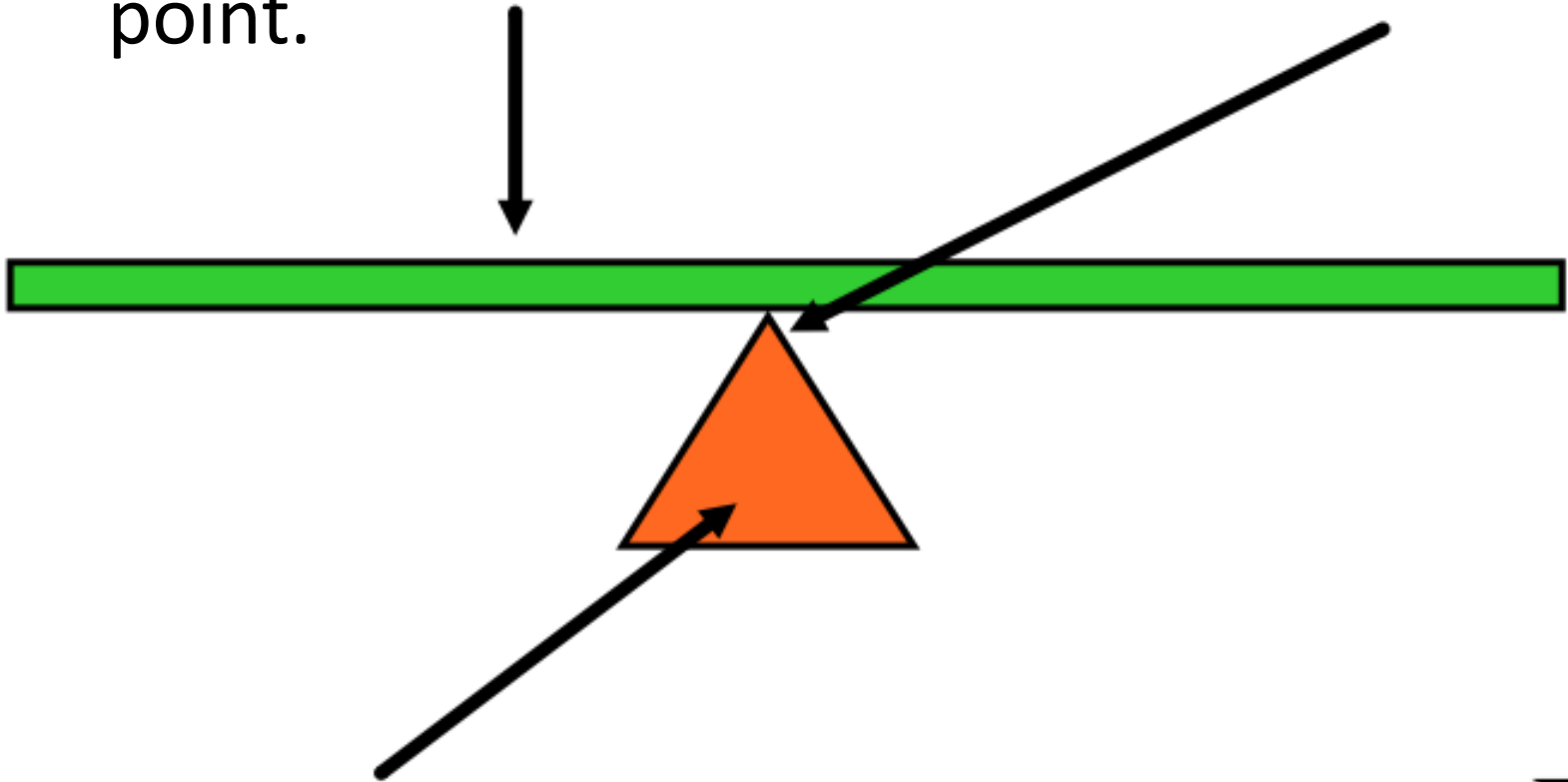
http://www.youtube.com/watch?v=Us2KfO_yrPA

http://www.youtube.com/watch?v=Us2KfO_yrPA

<http://www.youtube.com/watch?v=l-1LI2tWtNg>



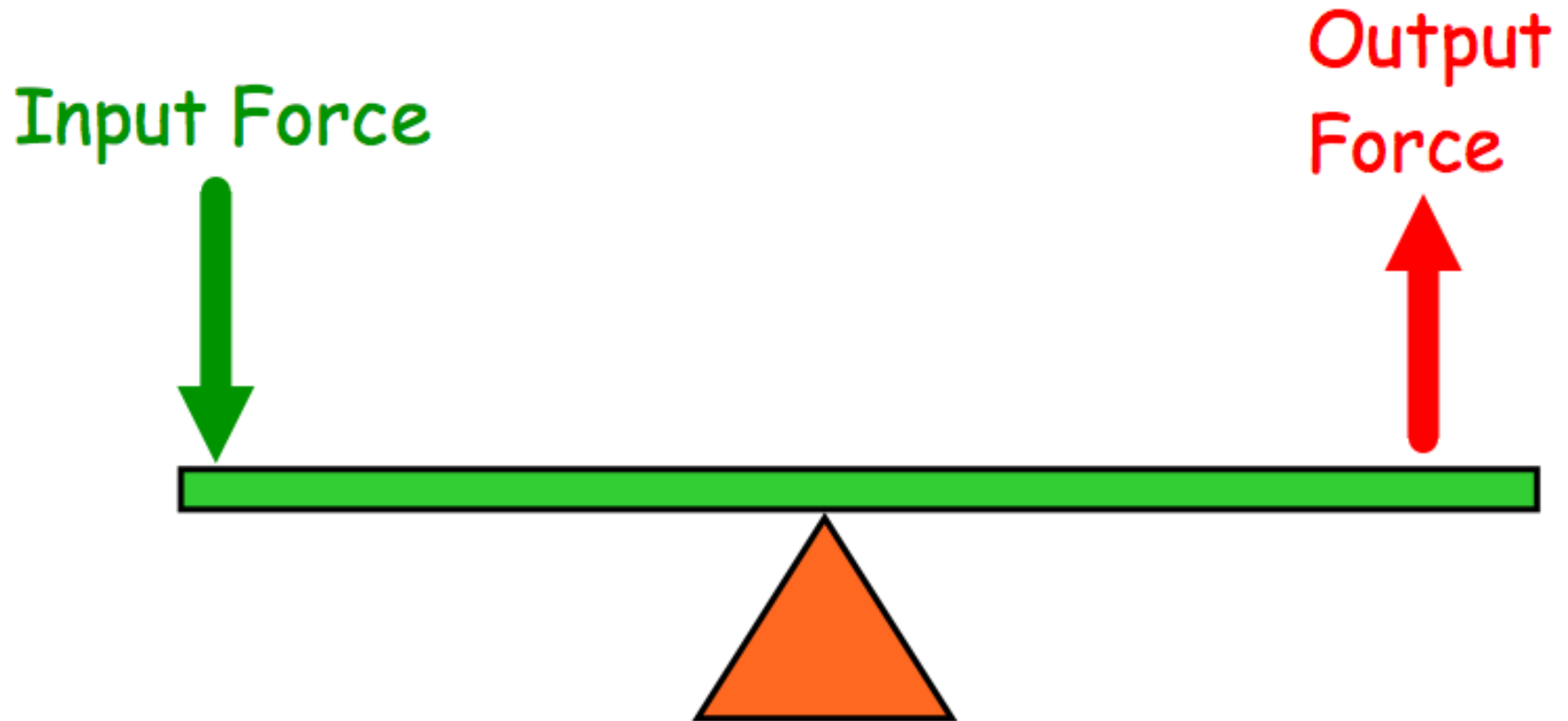
Lever = a rod or plank that pivots on a point.



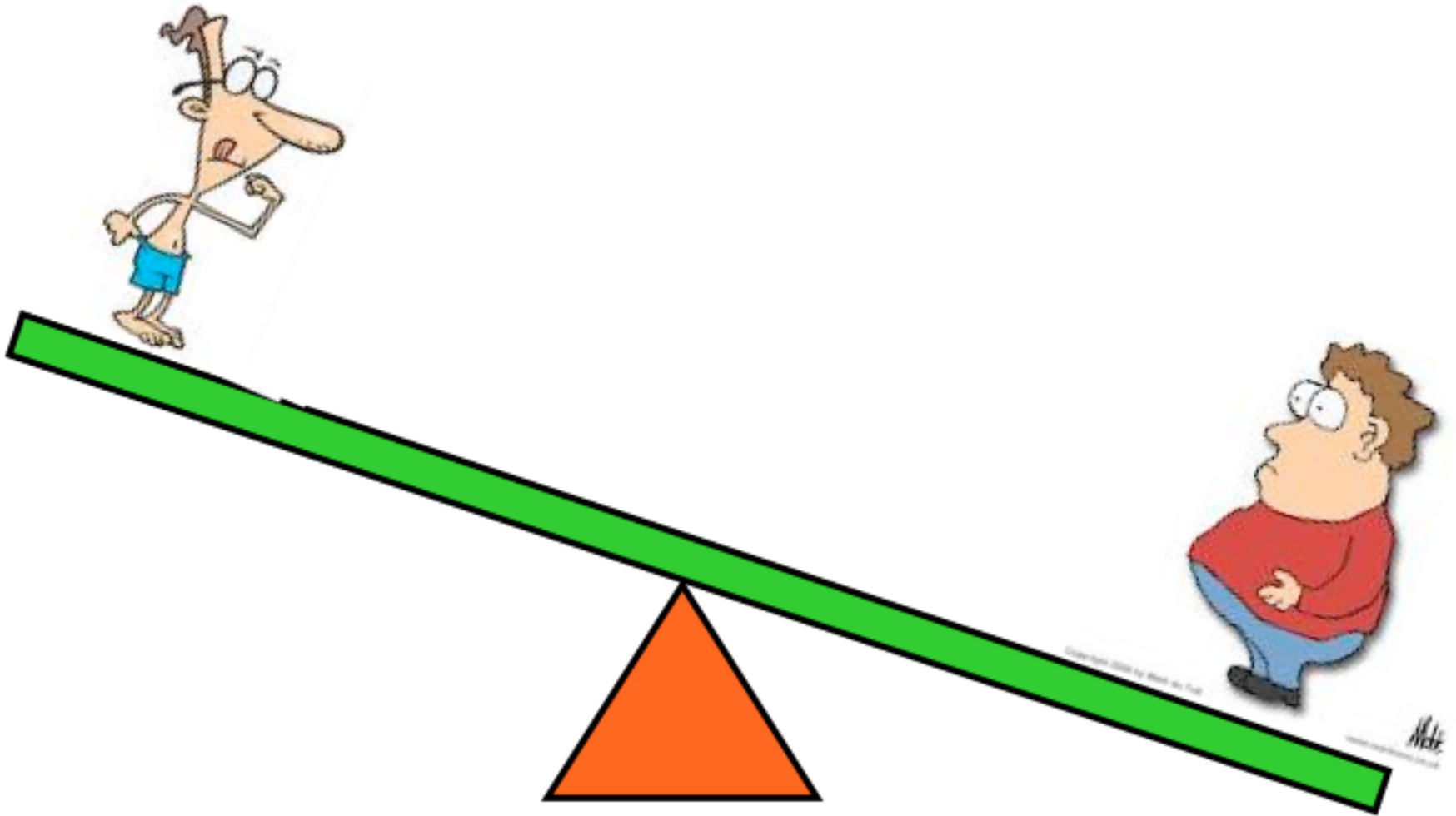
The point the lever pivots on is called the FULCRUM.



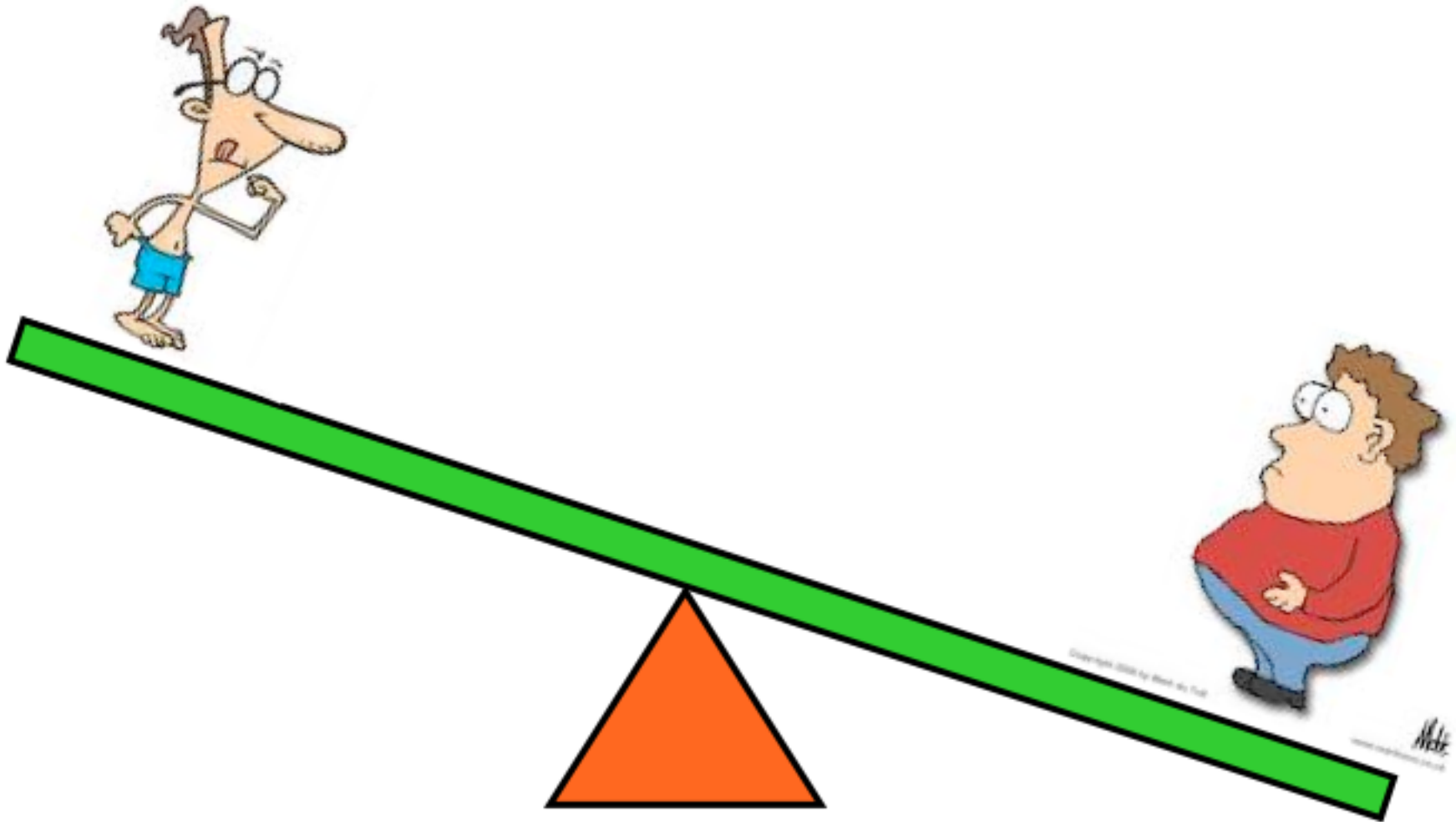
Lever Forces



How else can we balance this lever?



How can we balance this lever?
(move objects on the screen!)



Now you try it....

Take out pen/pencil and
folder/book/binder.



Table

Where is the
fulcrum?

Check for Understanding

1. What 2 pieces make a lever?
2. What is 1 way to balance a lever when the forces are different?
3. What are 2 examples of levers from real life?