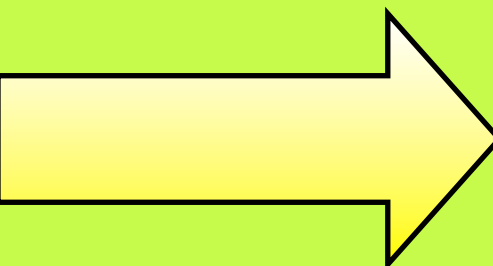


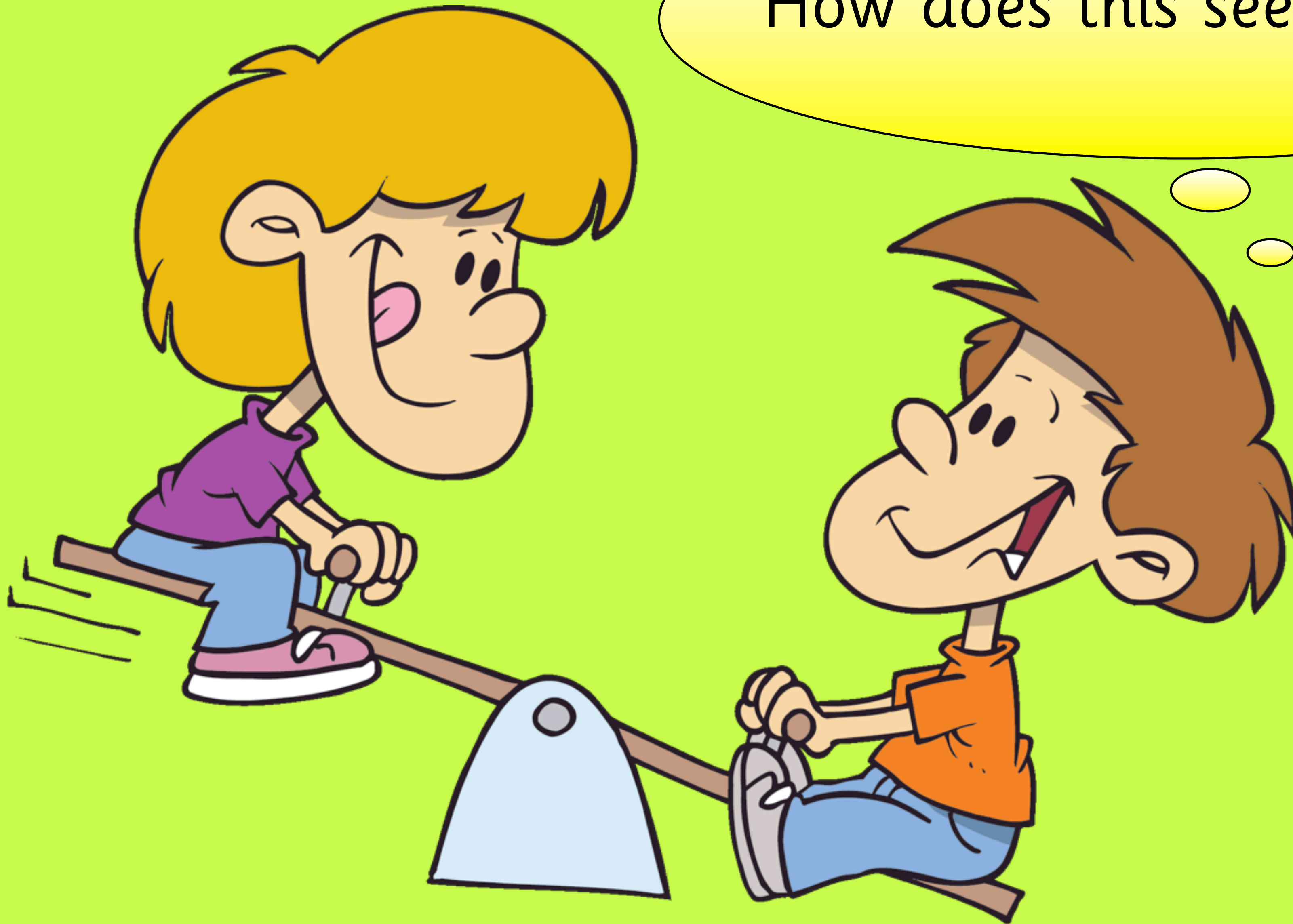
Moving Pictures

Today we will be...

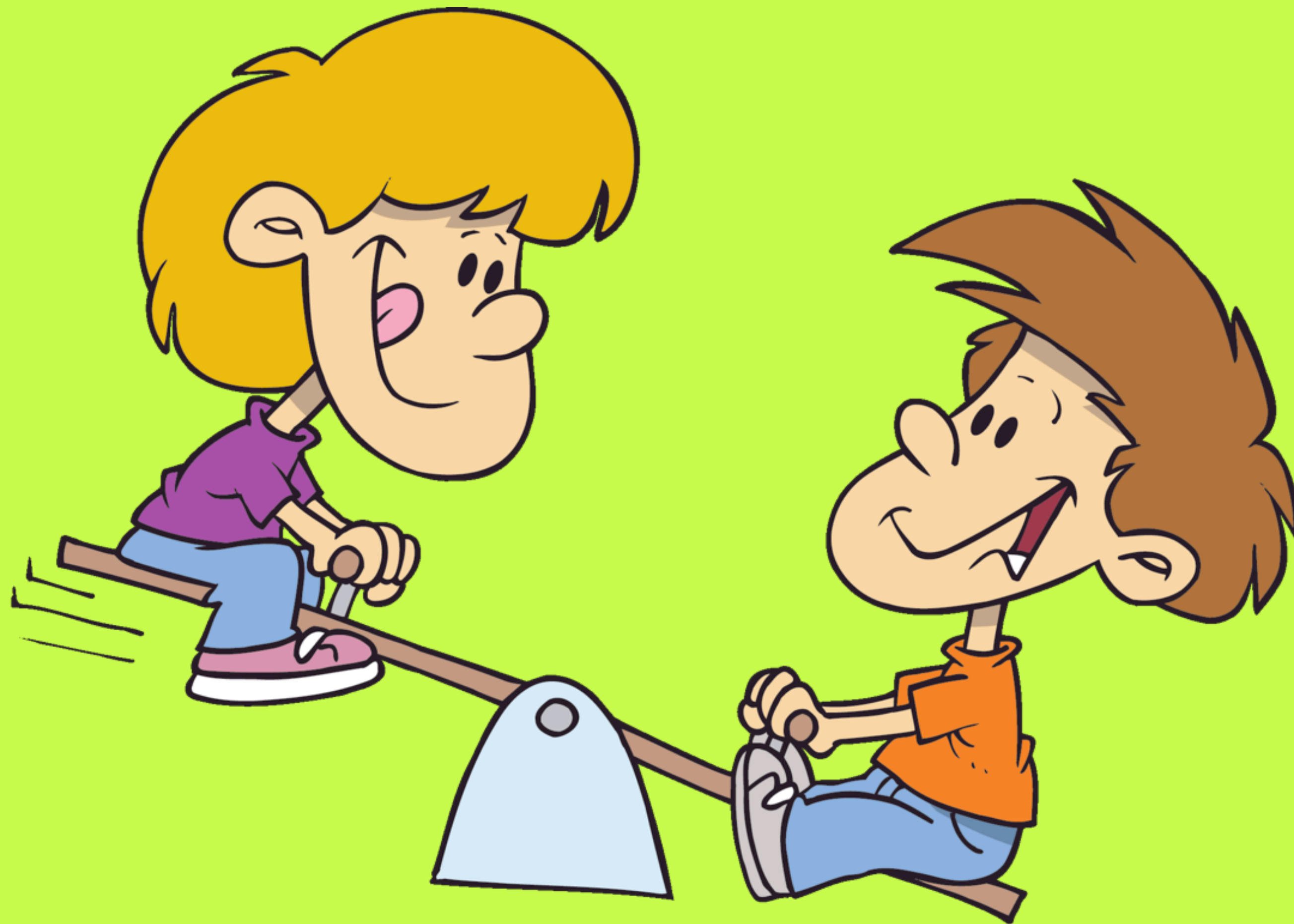
Using levers to create moving mechanisms.



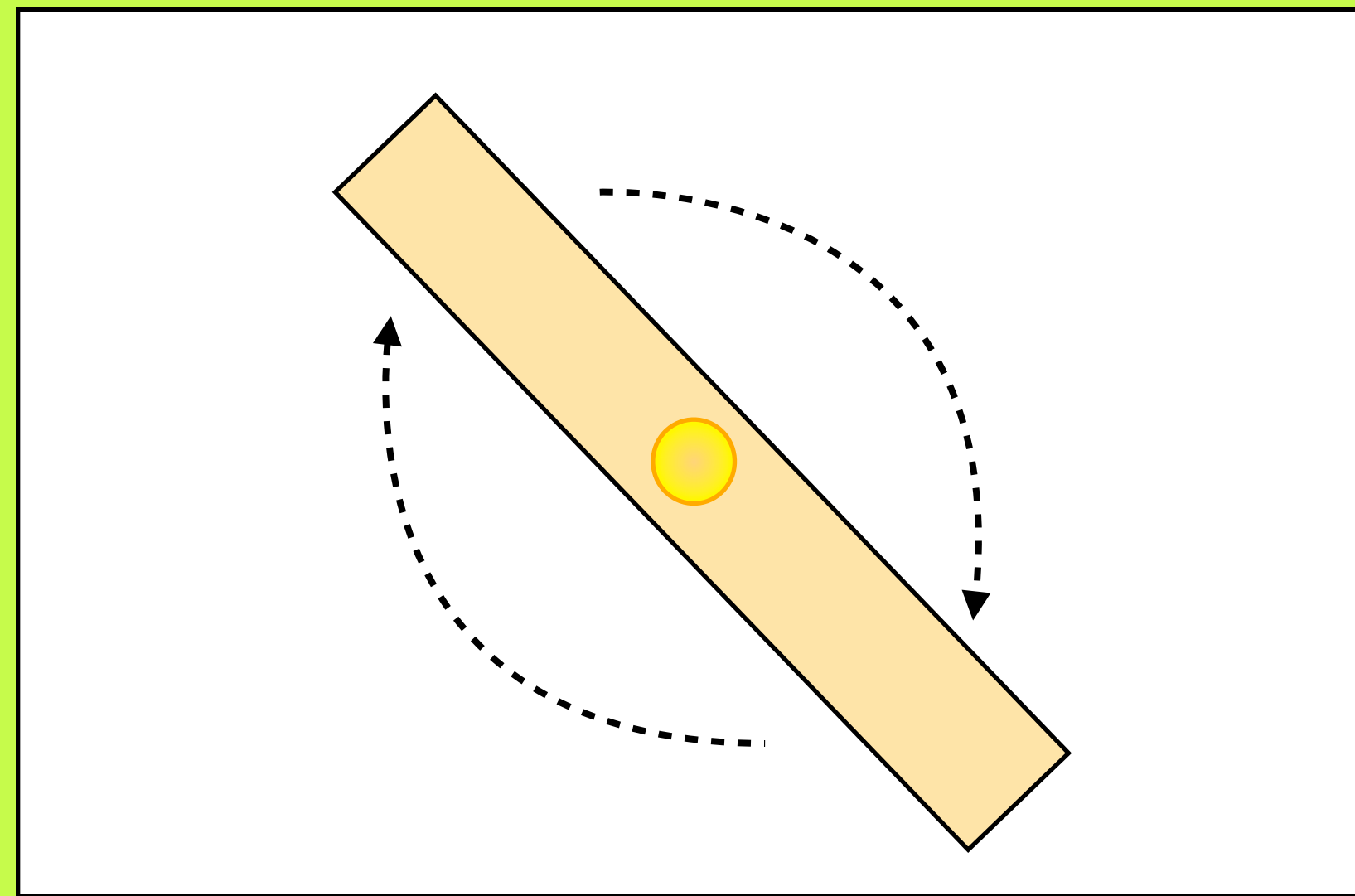
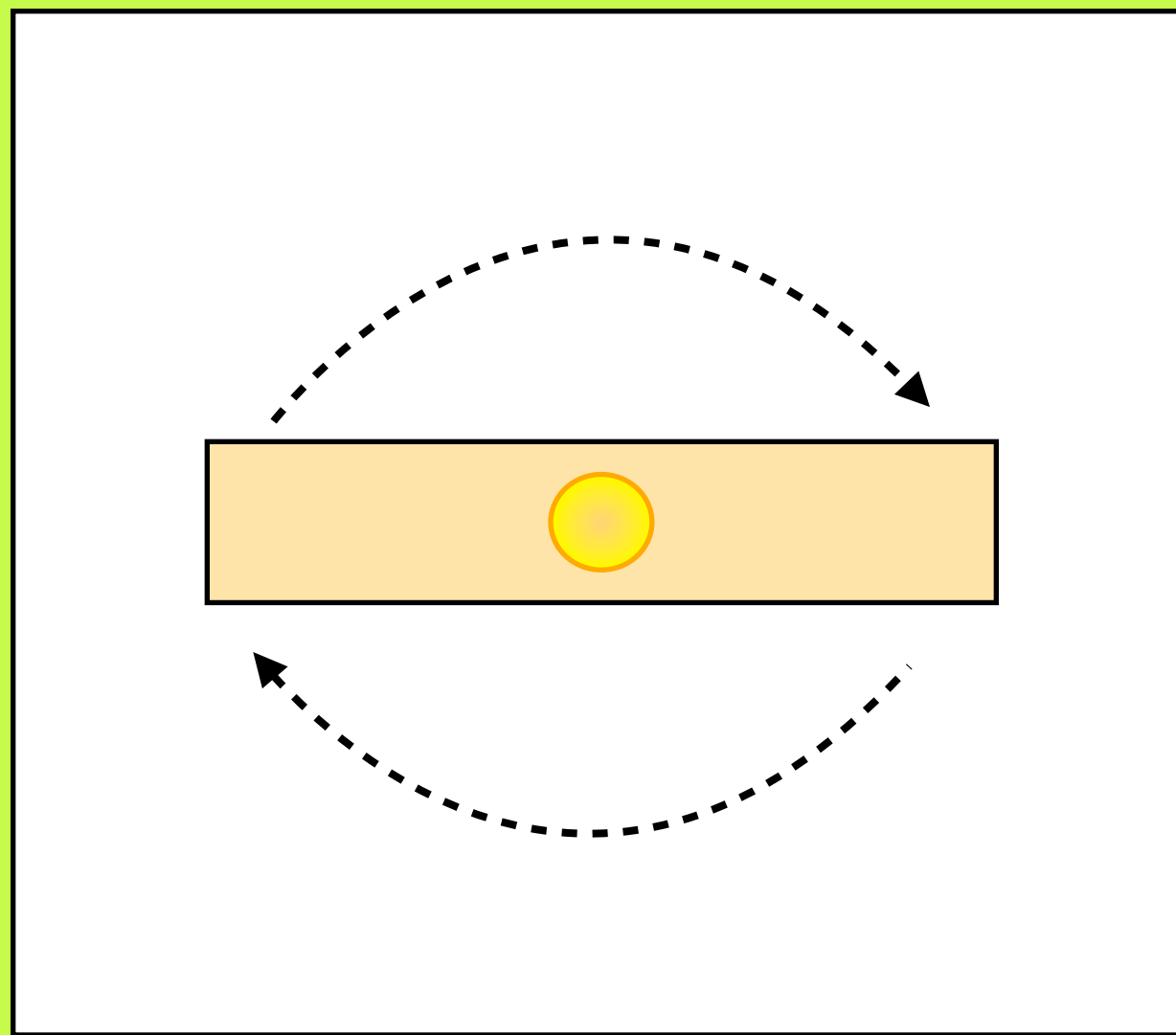
How does this seesaw work?



This seesaw has a lever which both children sit on. The **lever** is attached to the base on a **pivot**. The **pivot** allows the **lever** to move up and down. As one child pushes up, the other child goes down.



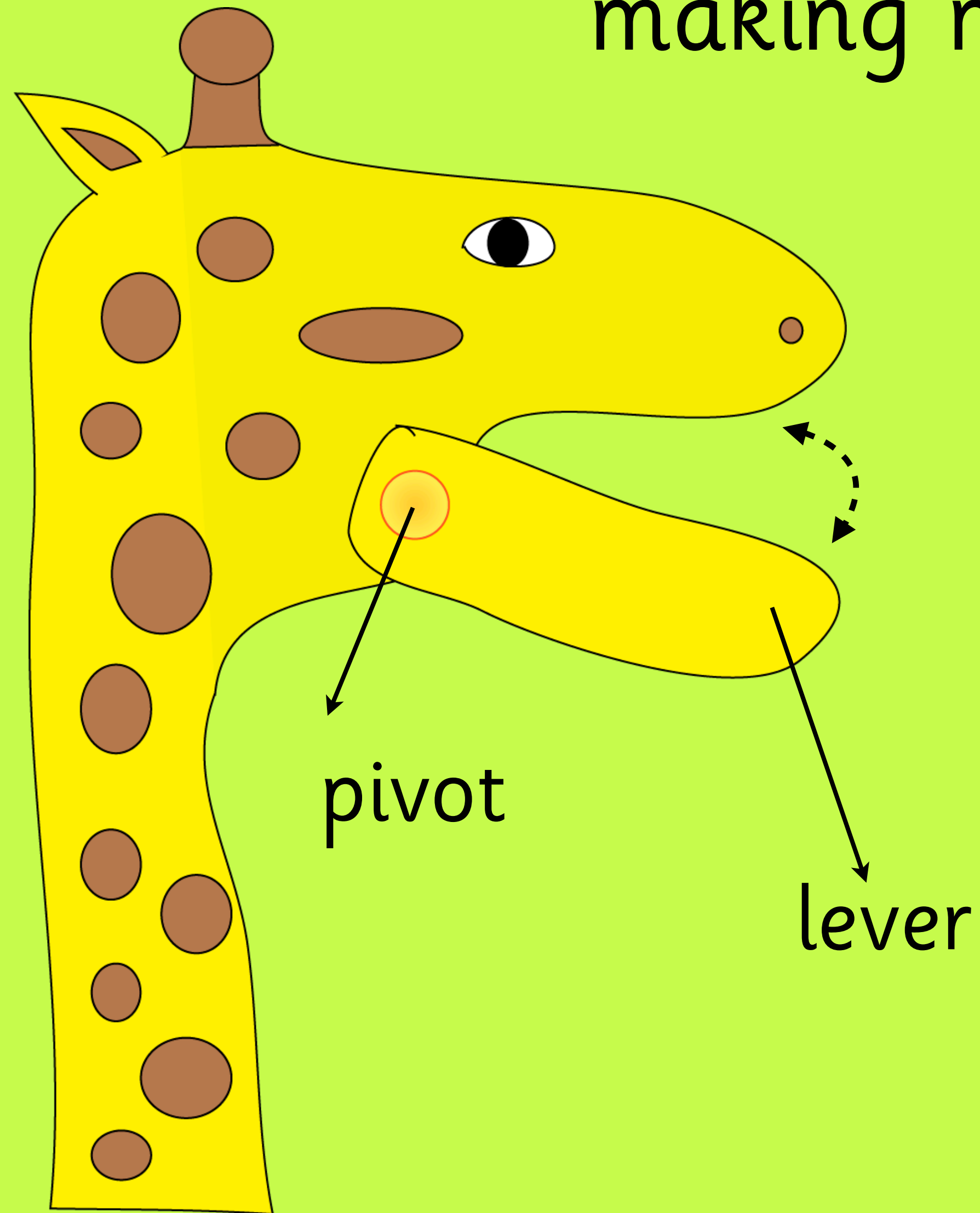
Levers and pivots can be used to make interesting moving pictures. This lever has been made out of card and the pivot has been made by punching a hole in the centre of the lever and inserting a paper fastener. The lever can now move around the pivot.



These are paper fasteners. They have two pins that can flatten out so they can attach two or more pieces of paper together.



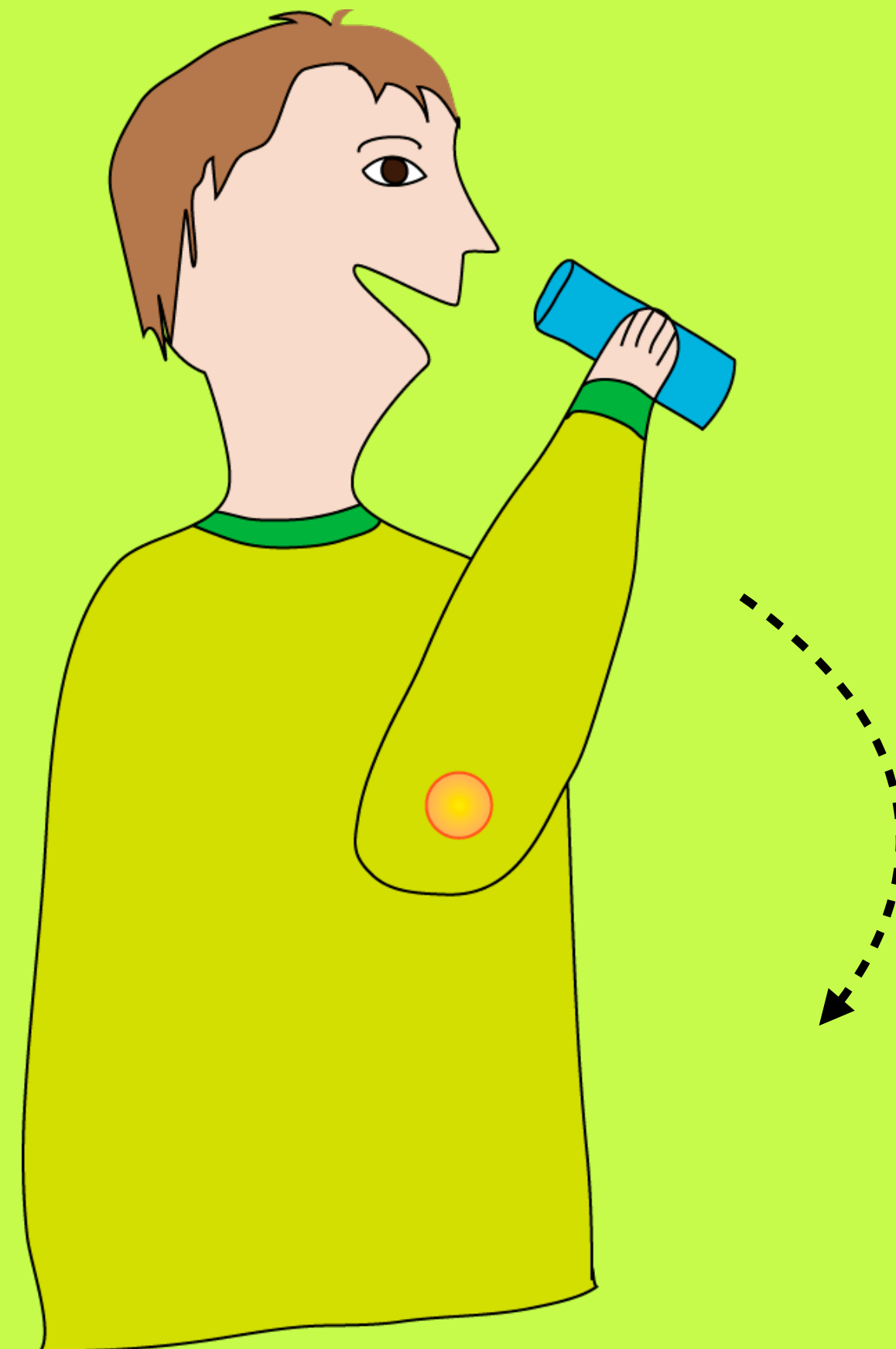
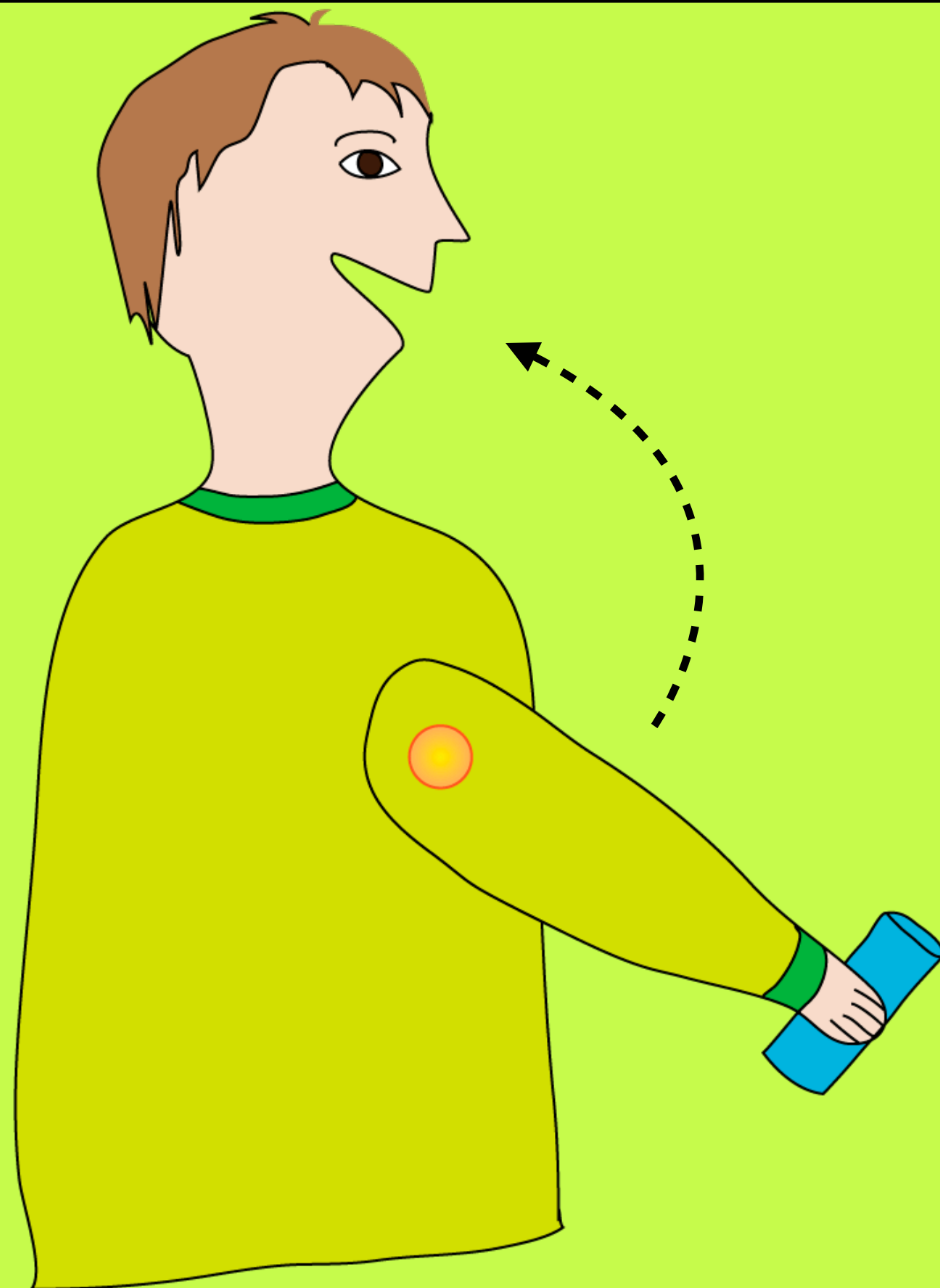
There are lots of ways levers and pivots can be used to making moving pictures.



This giraffe has a lever for the bottom part of his mouth which attached to the rest of his face by a pivot. This means his mouth can move up and down.



This man's arm is a lever. Using the pivot, the man's arm can move up and down to make it look like he is having a drink.



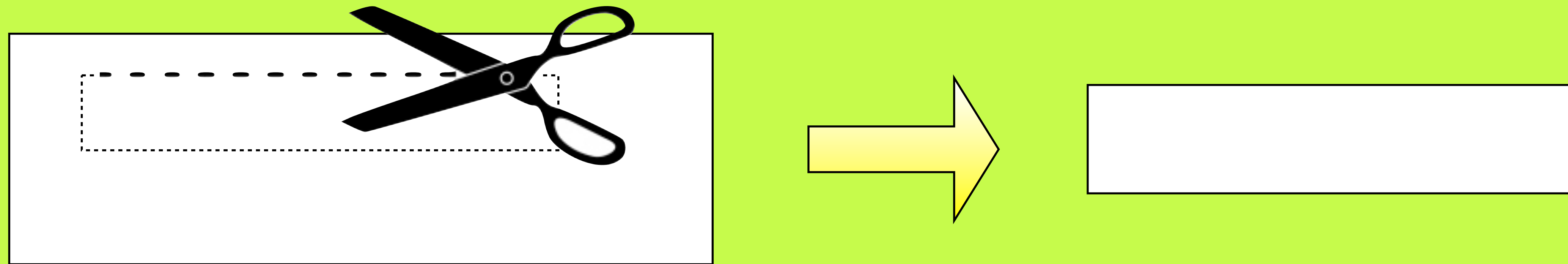


Which part of this picture could you make move with a lever and pivot? Why would you move that part? How does that make the picture more exciting?

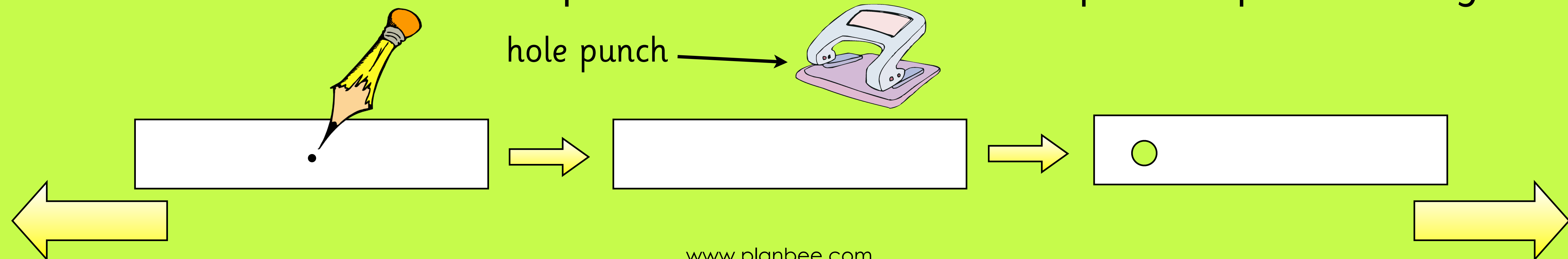


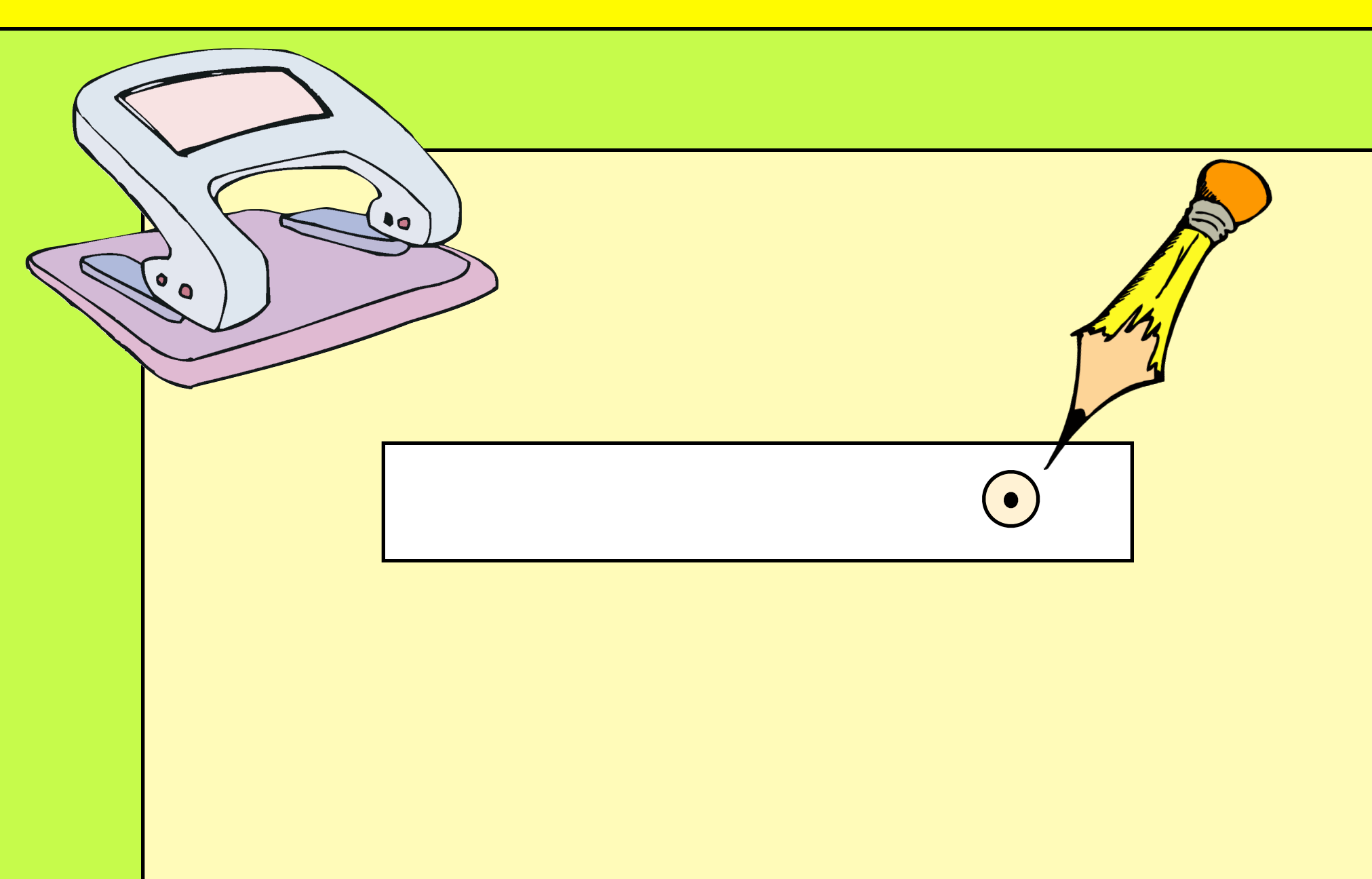
How to make a lever and pivot mechanism

The first thing you need to decide is the size and shape of your lever. Draw the shape you need on a piece of card and then cut it out.

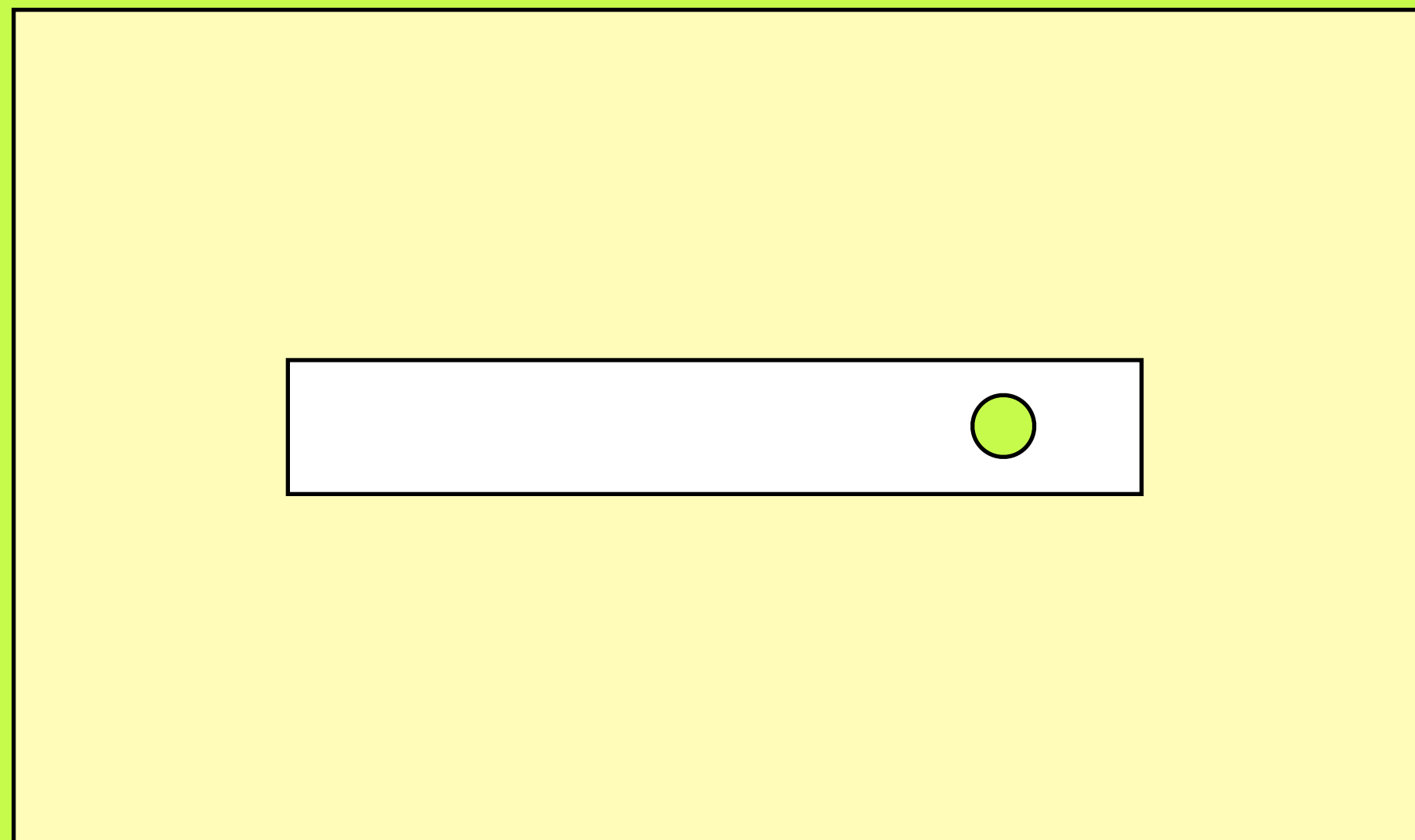


You then need to work out where you want your pivot to be. Mark it on the lever and then use a hole punch to create a hole to put the pivot through.

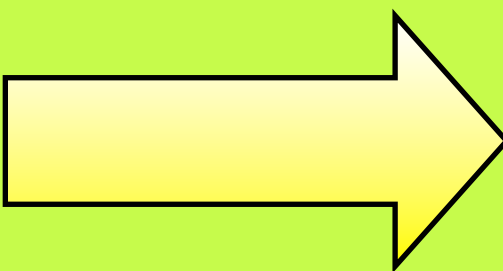
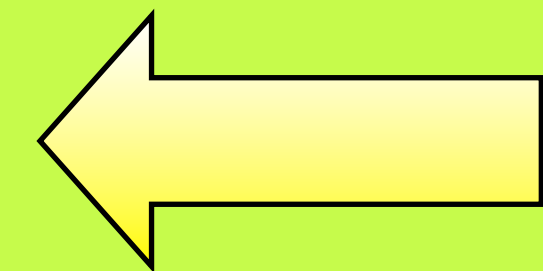


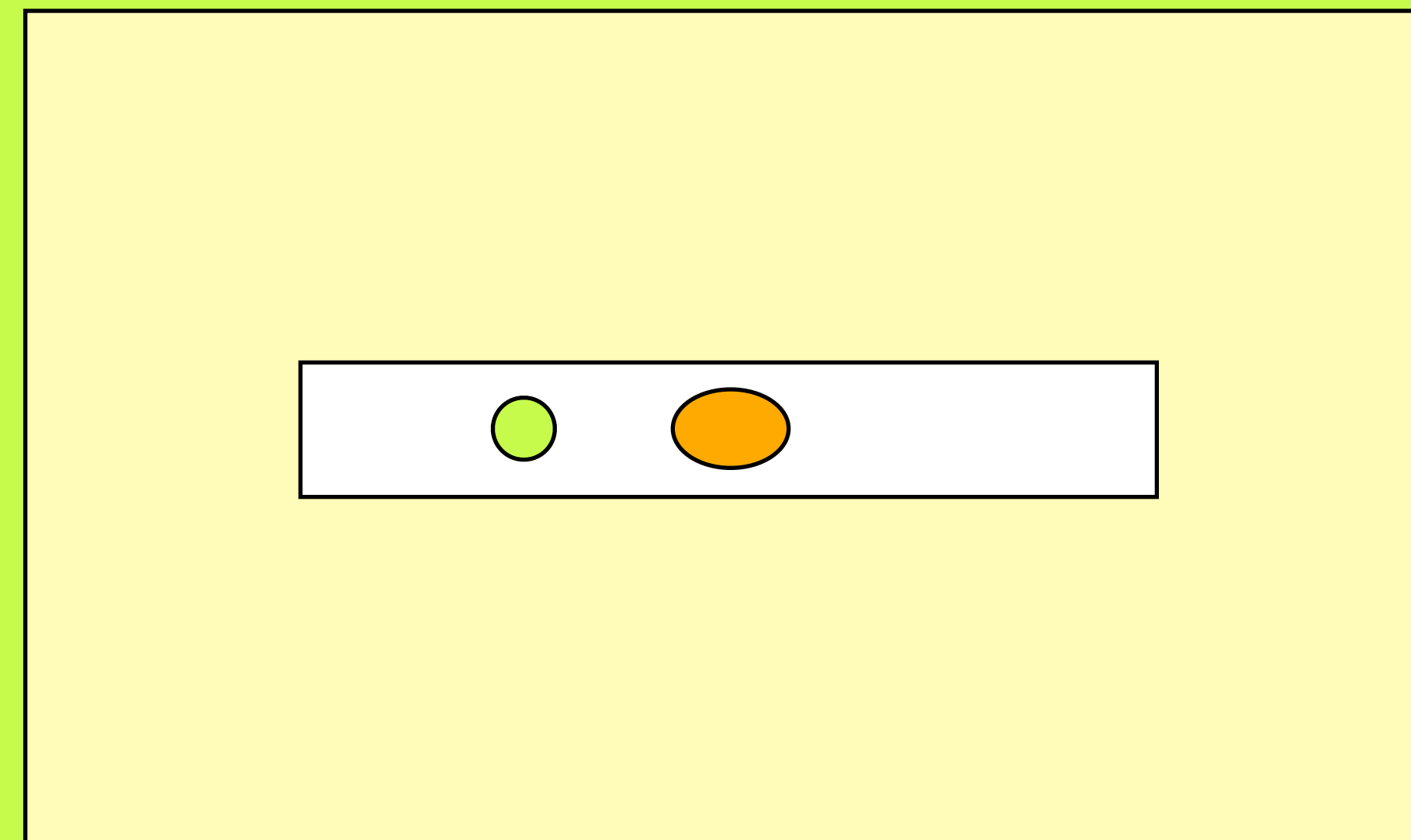
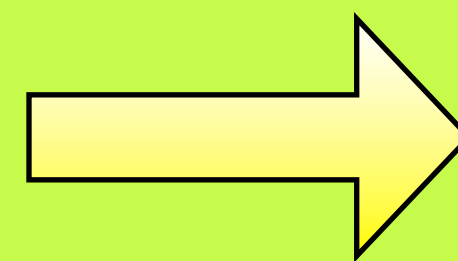
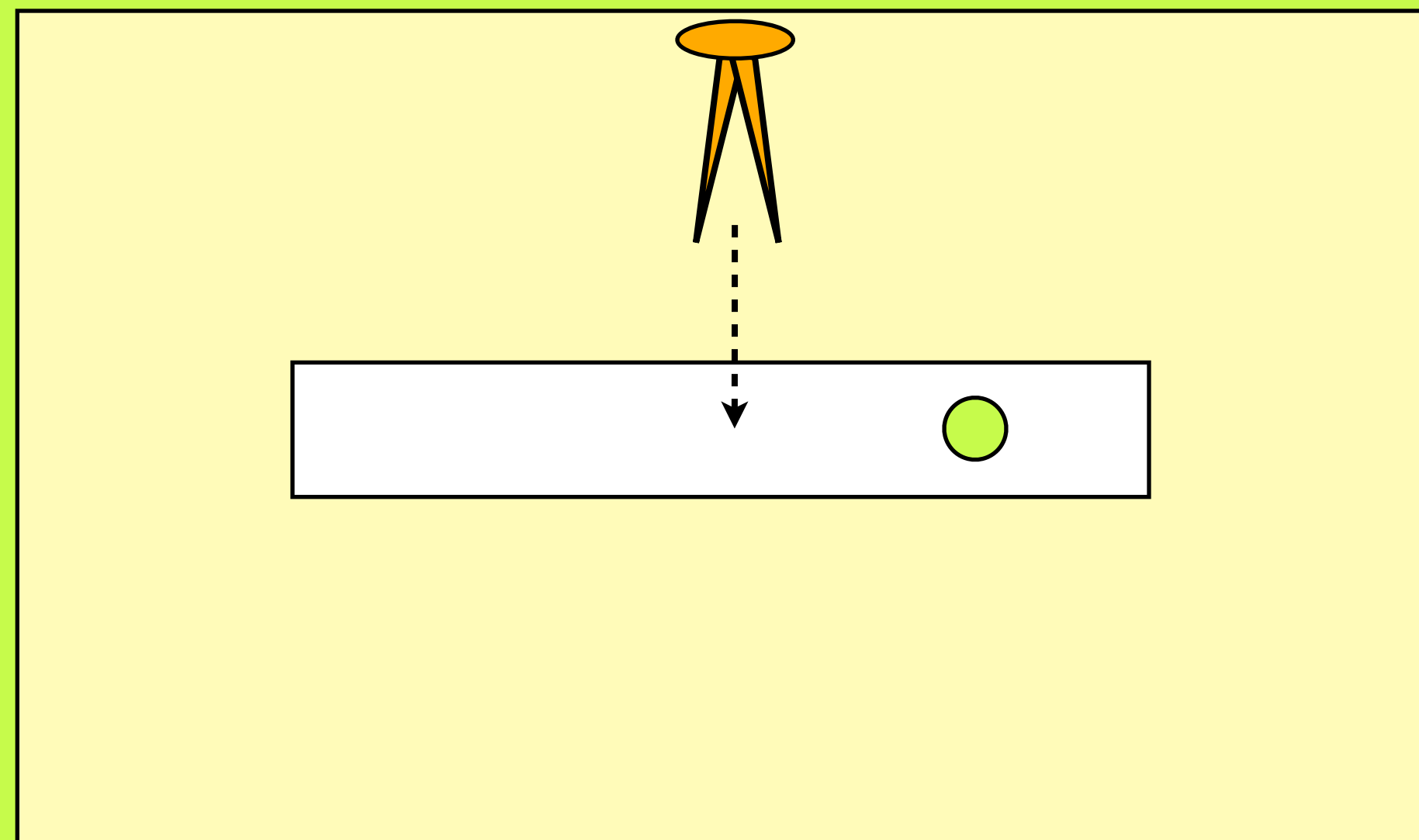


You then need to place your lever where you want it on the page. Mark where the hole is with a pencil and use the hole punch again to create another hole.

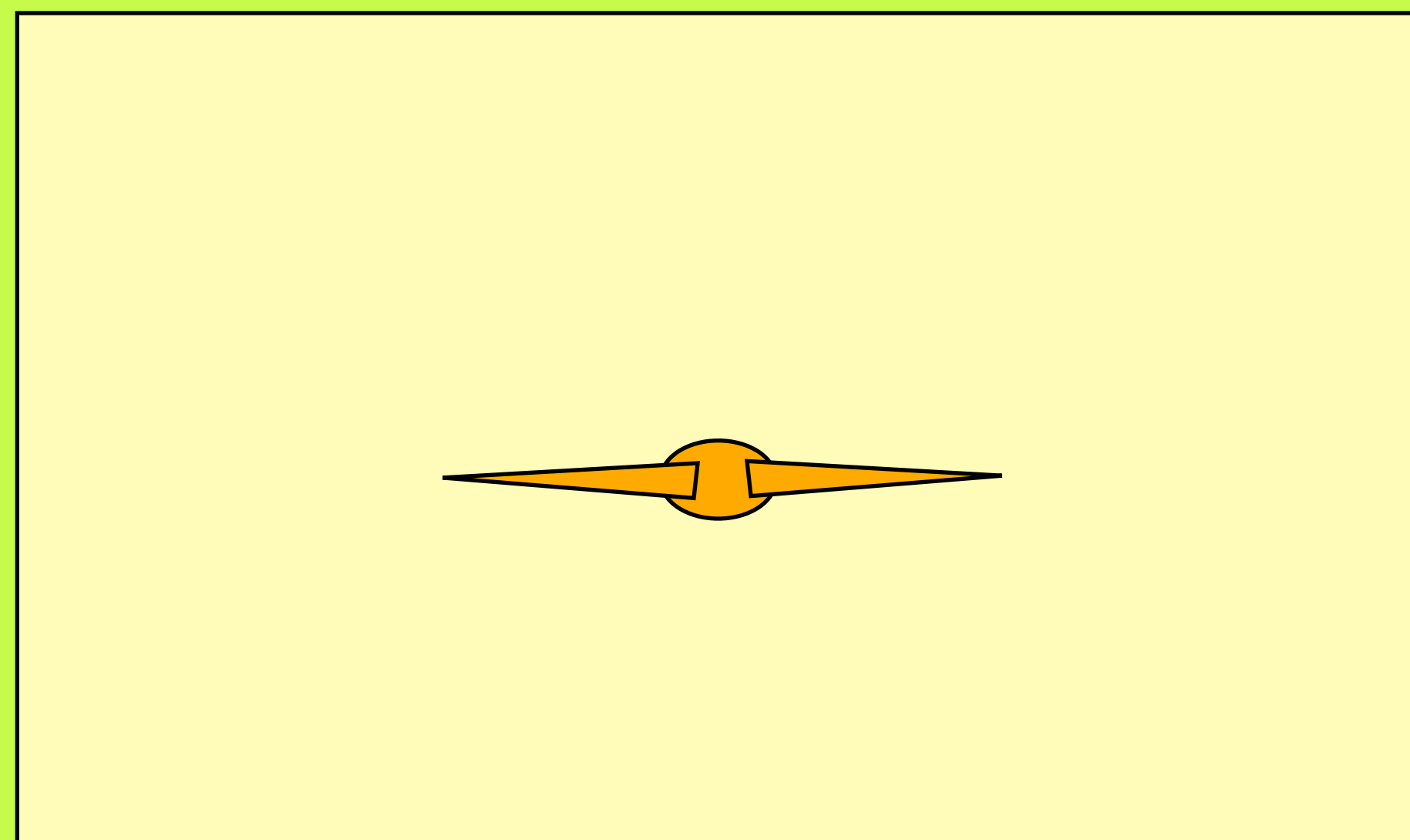


Then place the two holes on top of each other.



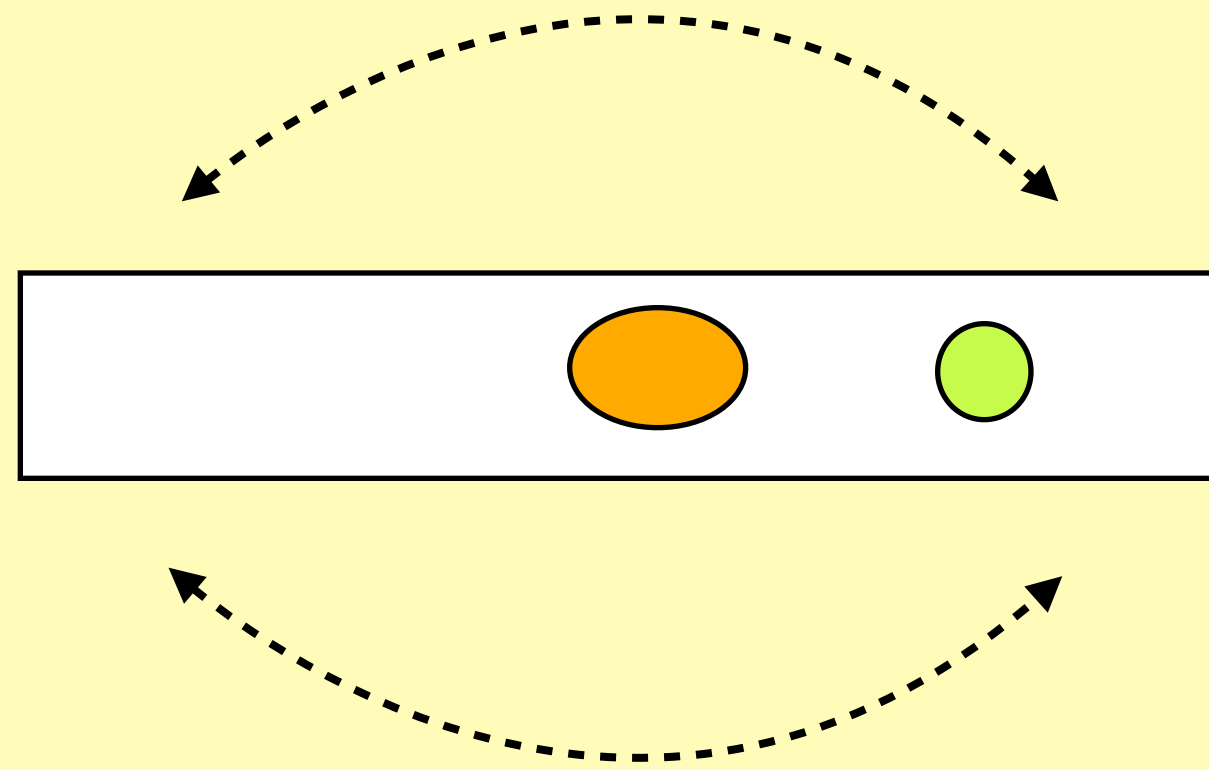


You then need to insert a paper fastener into both holes.



Flatten out the wings of the paper fastener on the back of the card so that the paper fastener is secure.

You now have a lever and pivot mechanism that you can use to make lots of interesting moving pictures!



Can you think of any other ways you could use levers and pivots like this to make moving pictures?

