

# Levers



# Aim

- I can make a lever and use it in my product.

# Success Criteria

- I can decide how long my lever needs to be.
- I can decide where to put my pivot.
- I can make a hole in the picture and lever then use a split pin to assemble it.
- I can check that the lever works.
- I can move the pivot if the picture doesn't move how I want it to.

# Jack and the Beanstalk



We are going to read the Jack and the Beanstalk e-book. Click on the picture below:

## Jack and the Beanstalk



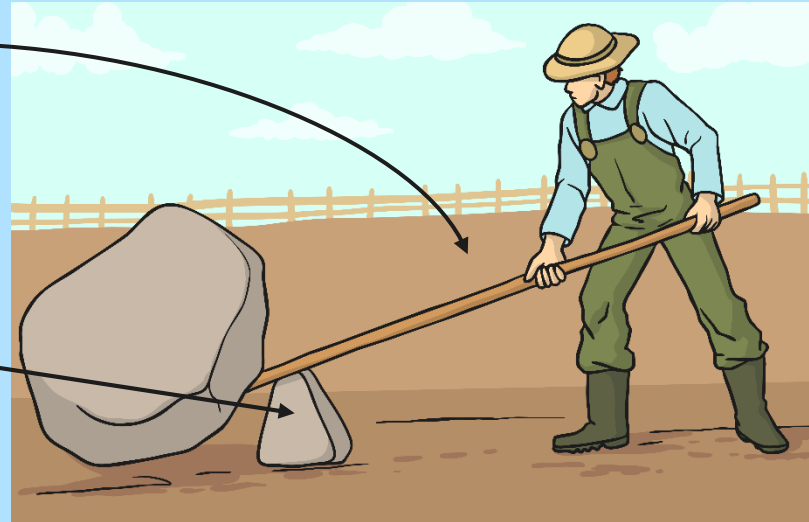
# Making Levers



Today you are going to turn part of the story into a moving picture using a lever mechanism.

**Lever** - a bar which turns around a point/pivot.

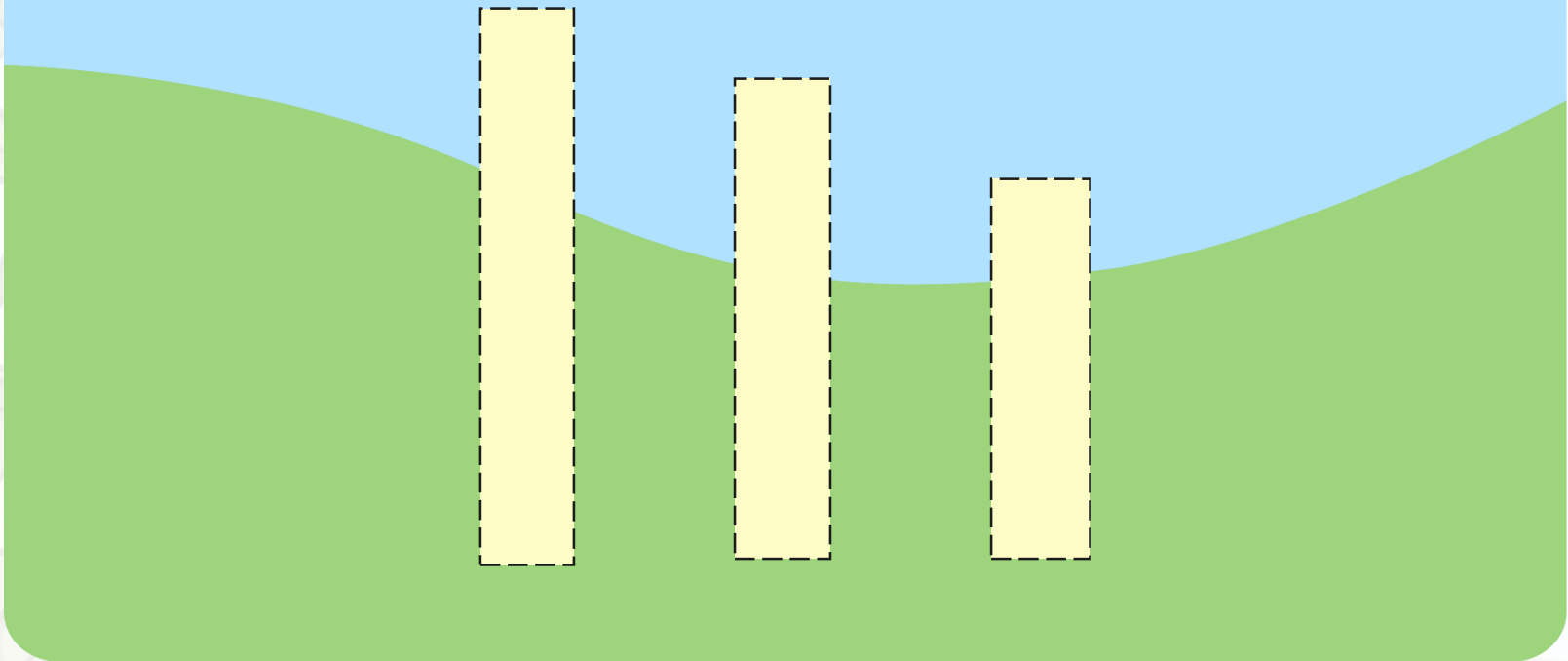
**Pivot** – a point about which a lever turns.



# Making Levers



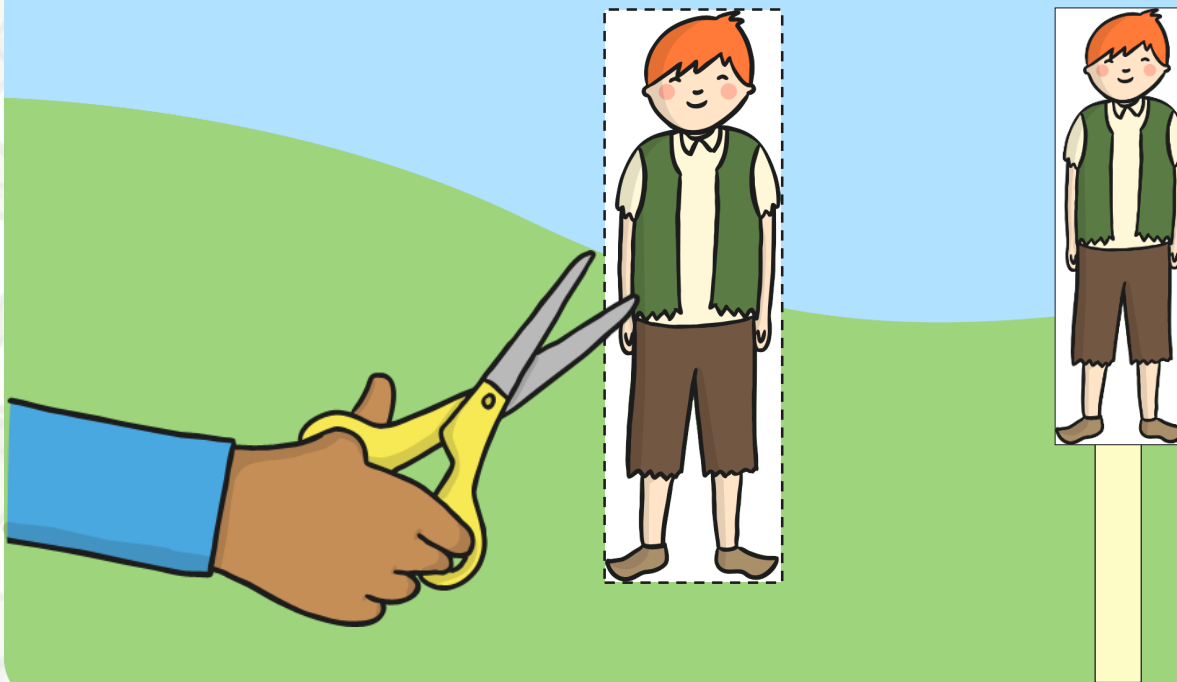
Step 1: Decide how long you want your lever to be.



# Making Levers



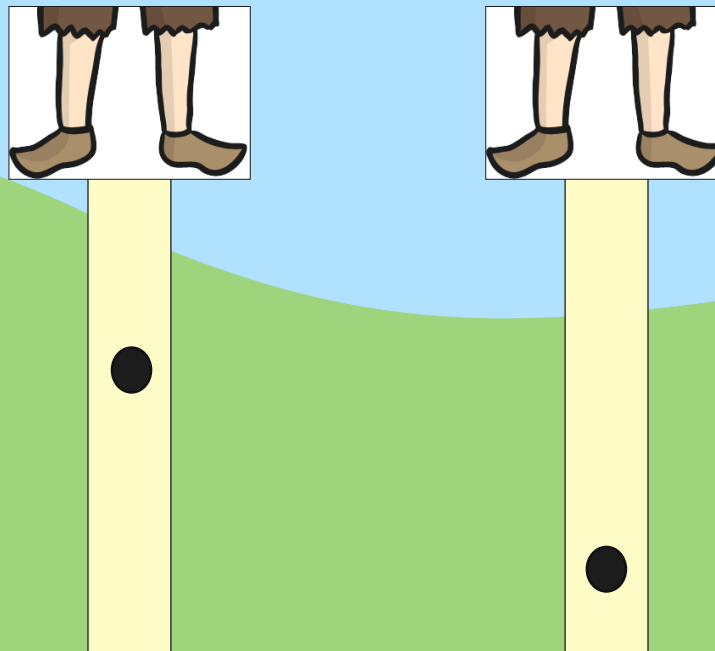
Step 2: Cut out the picture of Jack and stick it onto the end of the lever.



# Making Levers



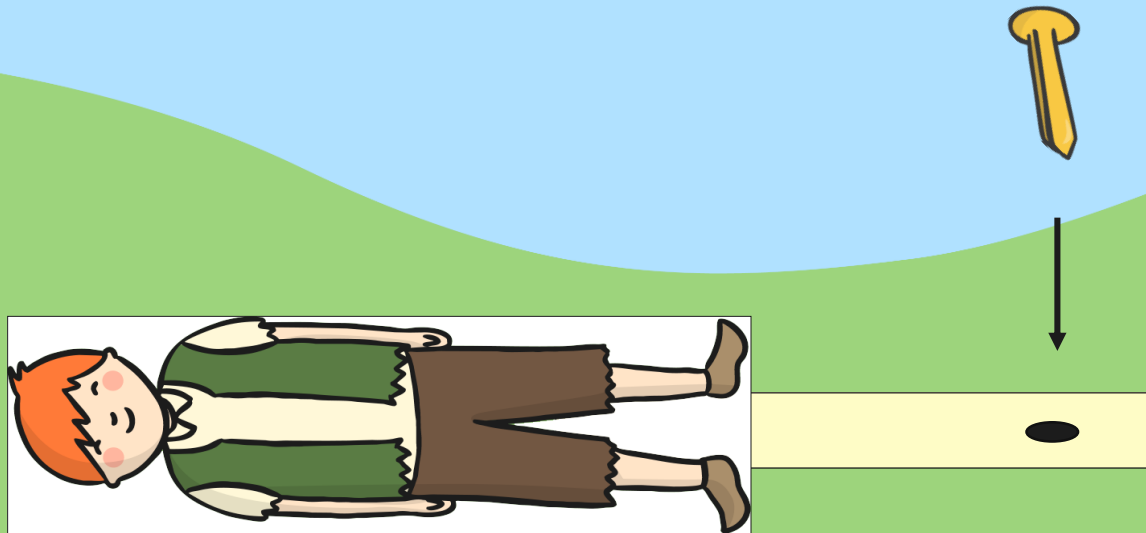
Step 3: Decide where you want to place your pivot.



# Making Levers



Step 4: Place sticky tack behind the place you want to make a hole.  
Make a hole in the lever.

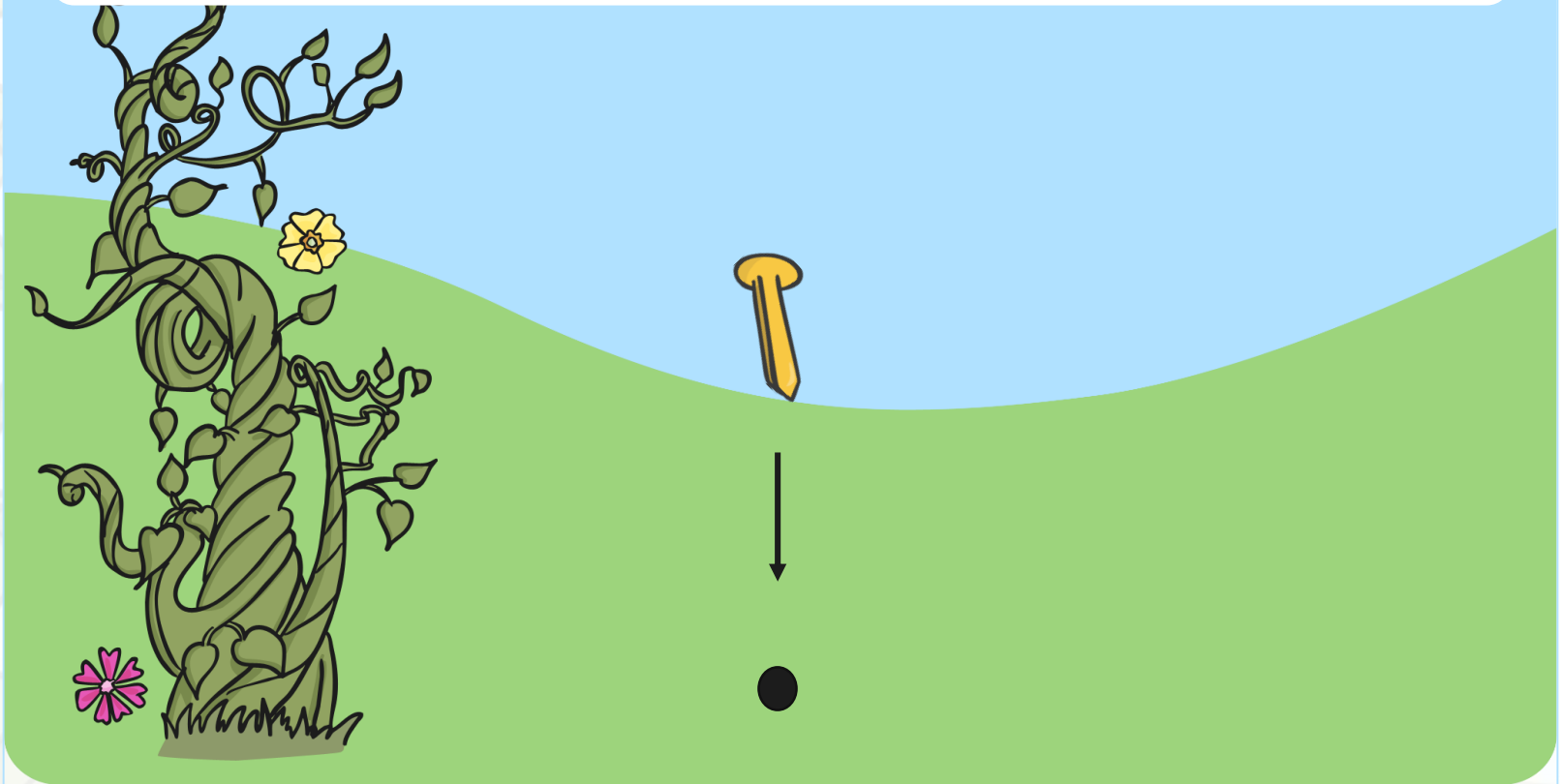




# Making Levers



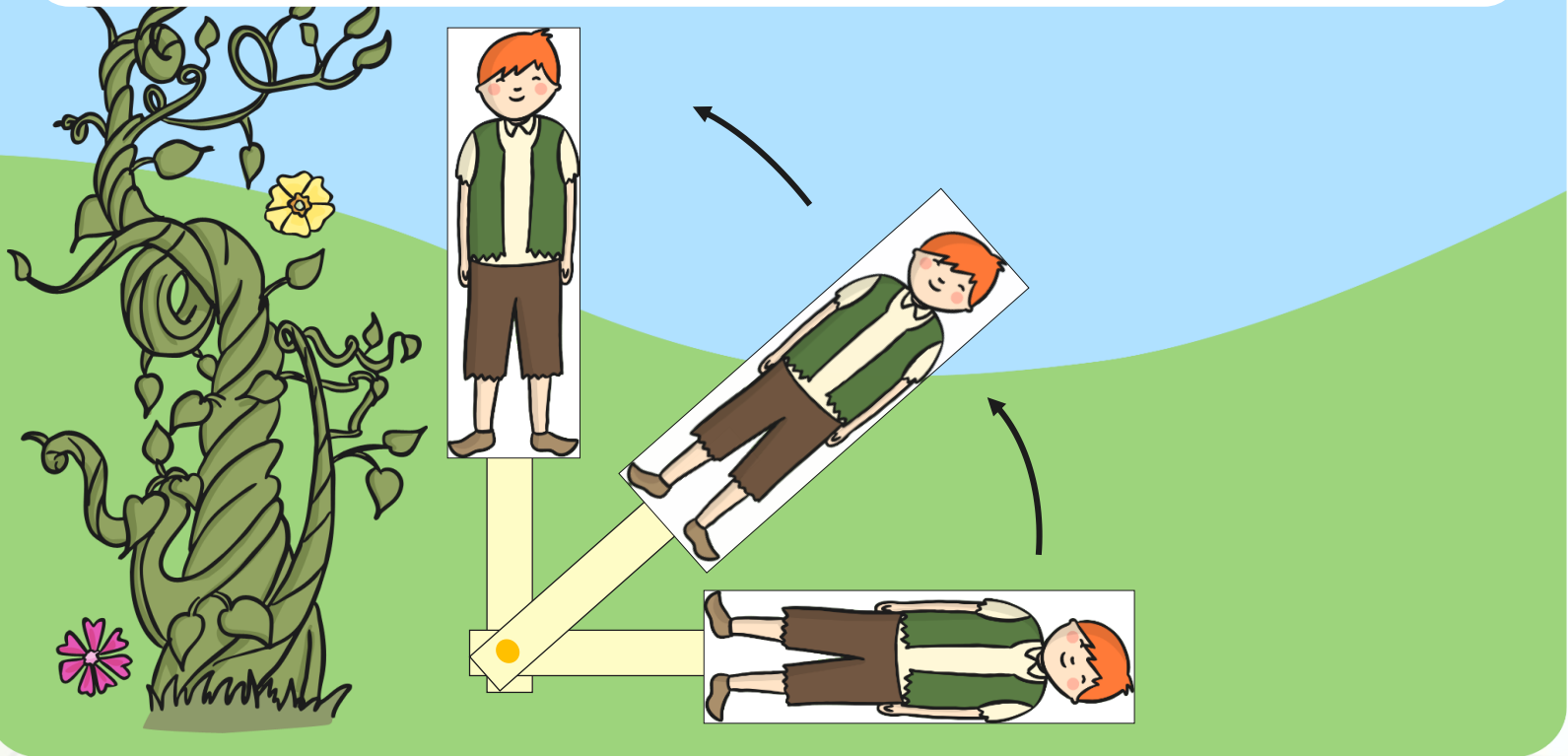
Step 5: Place sticky tack behind the place you want to make a hole.  
Make a hole in the background.



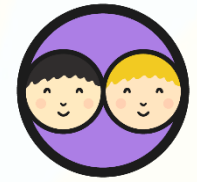
# Making Levers



Step 6: To assemble, push the split pin through the lever and background and open up the ends at the back. Check that the lever works; you might need to move the pivot.



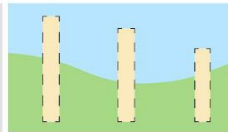
# Now It's Your Turn



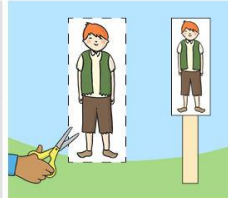
Carefully follow the instructions to make your own lever.  
Remember to take extra care when making the holes!

## Jack and the Beanstalk Lever Instructions

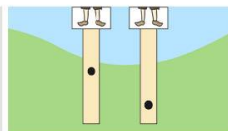
Step 1  
Decide how long you want your lever to be.



Step 2  
Cut out the picture of Jack and stick it onto the end of the lever.

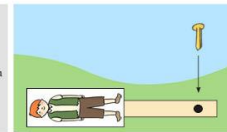


Step 3  
Decide where you want to place your pivot.

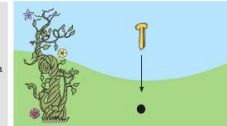


## Jack and the Beanstalk Lever Instructions

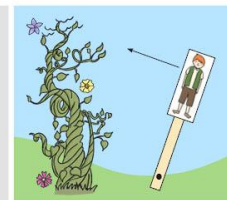
Step 4  
Place sticky tack behind the place you want to make a hole. Make a hole in the lever.



Step 5  
Place sticky tack behind the place you want to make a hole. Make a hole in the background.



Step 6  
To assemble, push the split pin through the lever and background and open up the ends at the back.  
Check that the lever works, you might need to move the pivot.



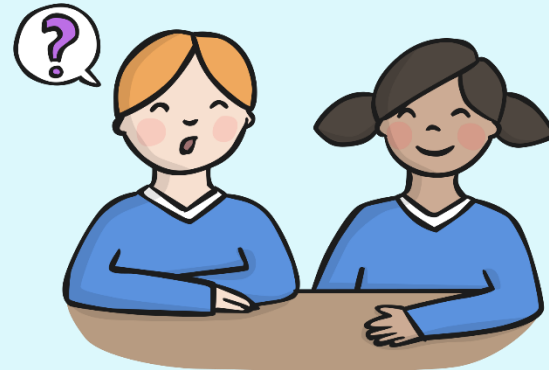
# Top Tips



Share with a partner two top tips about making levers that would help children taking the lesson next year and could be added onto the instructions sheet.

Top Tip 1:

Top Tip 2:



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