EST 2014

BOT SHOP

LET THE FUN BEGIN

Hello Brian

Brachiosaurus

Discover the Joy's of a Mechanical Friend

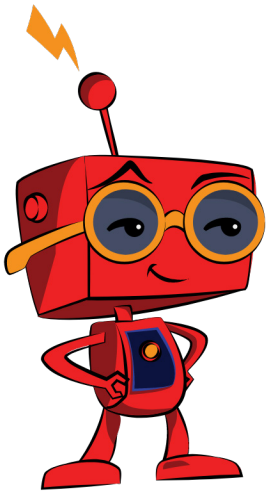
Batteries
NOT
included

level

Brian

the wooden mechanical walking

Brachiosaurus



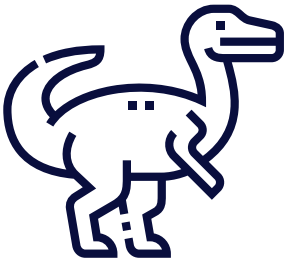
Hey there, little creator!

I'm Brian, the Brachiosaurus, but you can call me Big Brian!

Brachiosaurus means "arm lizard" yeah, I know it sounds kind of silly, right? But that's because my front legs were longer than my back legs. With my super long neck, I could munch on those tasty leaves and needles way up high in the trees!

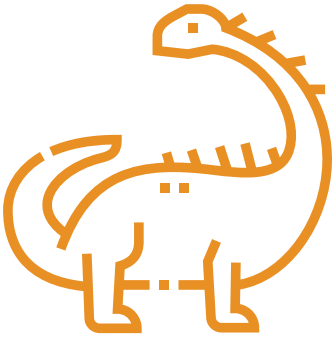
Now, listen up, I was HUGE! Now picture this, three school buses lined up, and a two-story house stacked on top. Yep, that's how huge I was! I weighed as much as 30 elephants! Can you believe it? I ate so much that your garden would be just a tiny snack for me!

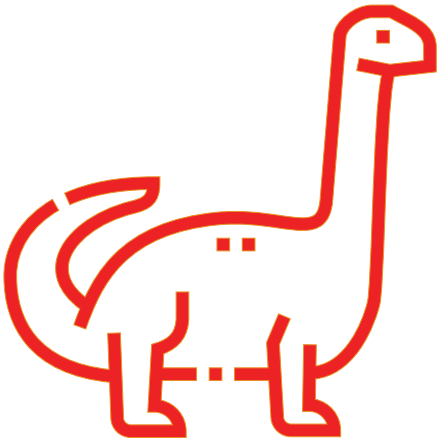
I lived a looong time ago, about 150 million years ago. That's even older than your great-great-great-great granny! Back then, the places I roamed were North America and Africa, you know when the world was still one big continent. I loved strolling around, using my super long neck to explore new spots.



Oh boy, let me tell you about my nemesis, the Allosaurus! They always had their eyes on me for dinner. But guess what? I was so huge that they mostly left me alone! Phew!

On the other hand, my best buddies were the Sauropods. We were all huge like me, with long necks and tails. We had a blast together!





Now, it's been dino-fun sharing my story with you. But enough talk, let's get building! I can't wait to be your friend and hear all about you! Together, we'll discover so many amazing things!

Are you ready to bring me to life?

Let's see what we need and how to prepare:

How to get prepare:

- Before you start, you need to find a safe and clean place to work.
- If you have any questions or need help, you can ask your parents, a grownup or teacher and they will assist you.

Have fun!

Some things to keep in mind:

- *Be careful:* When you open the package with the parts, be careful not to drop or lose any small parts. They are very important for your model. If you lose a piece, your model might not work!

- *Read and follow:* If you want to make your model easily, you need to read the instructions well and follow the steps.

Remember to get your own
2 x AA batteries for Brian!

What is in the BOX

- 16 x wooden parts
- 1 x remote control
- 1 x yellow motor
- 18 x 7mm screws
- 1 x screwdriver

x 1 — 5

x 1 — 6

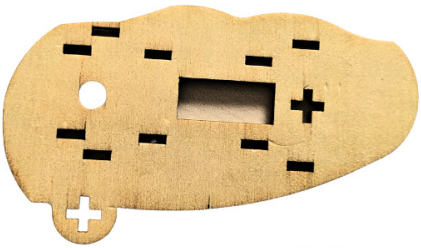
x 2 — 13

x 2 — 16

1 — 1 x

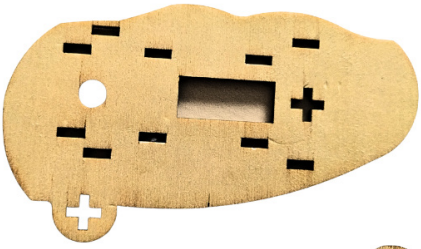
2 — 1 x

3 — 1 x



4 — 4 x

7 — 1 x



8 — 4 x

9 — 4 x

10 — 8 x

11 — 4 x

15 — 4 x

12 — 2 x

14 — 2 x

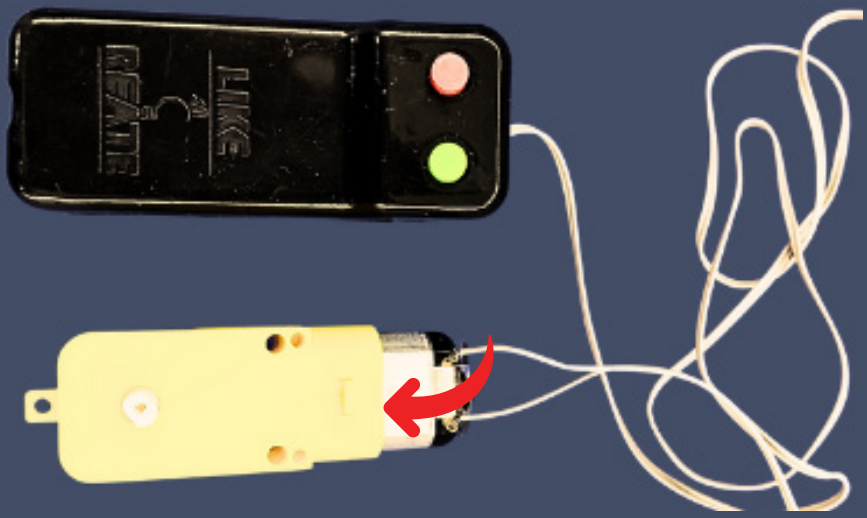
Step 1

You will need to strip the wire on the remote so about 1cm of wire is exposed.

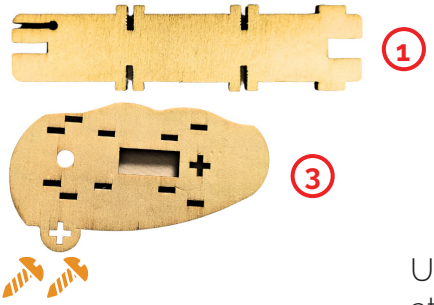
If you don't know how to do this, ask a grown-up for help.

Connect the wire of the remote control to the copper tags on the yellow motor.

It's like giving Brian some power!

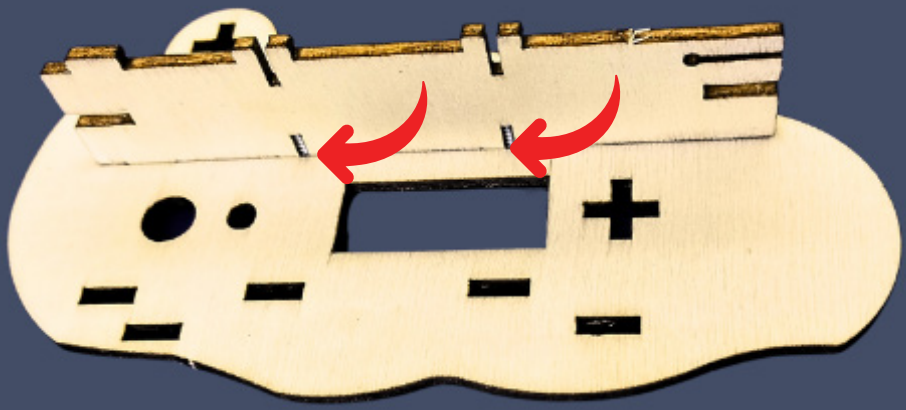


Step 2

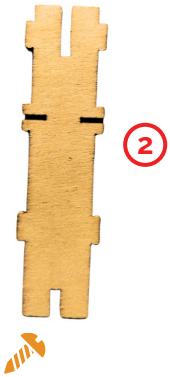


Use 2 x 7mm screws to attach board 1 and board 3

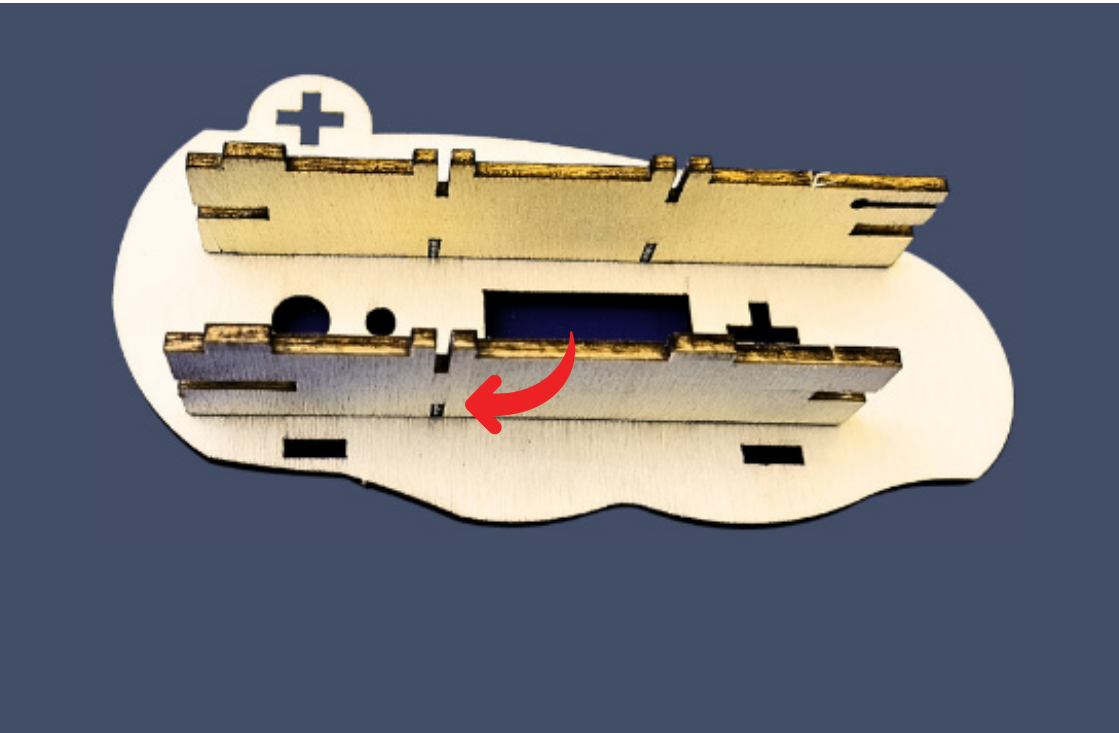
Make sure the boards are facing the right way as shown in the image below.



Step 3



Use 1 x 7mm screw to attach board 2 and board 3

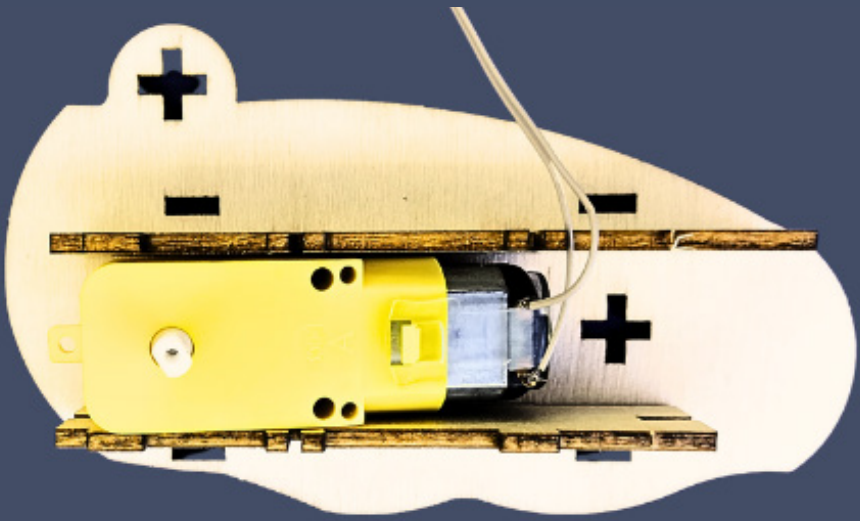


Step 4

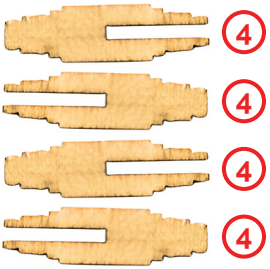
Look at the picture below, and put the motor between boards 1 and 2.

This is the rotating shaft

Make sure that the rotating shaft of the motor goes into the big round hole of board 3

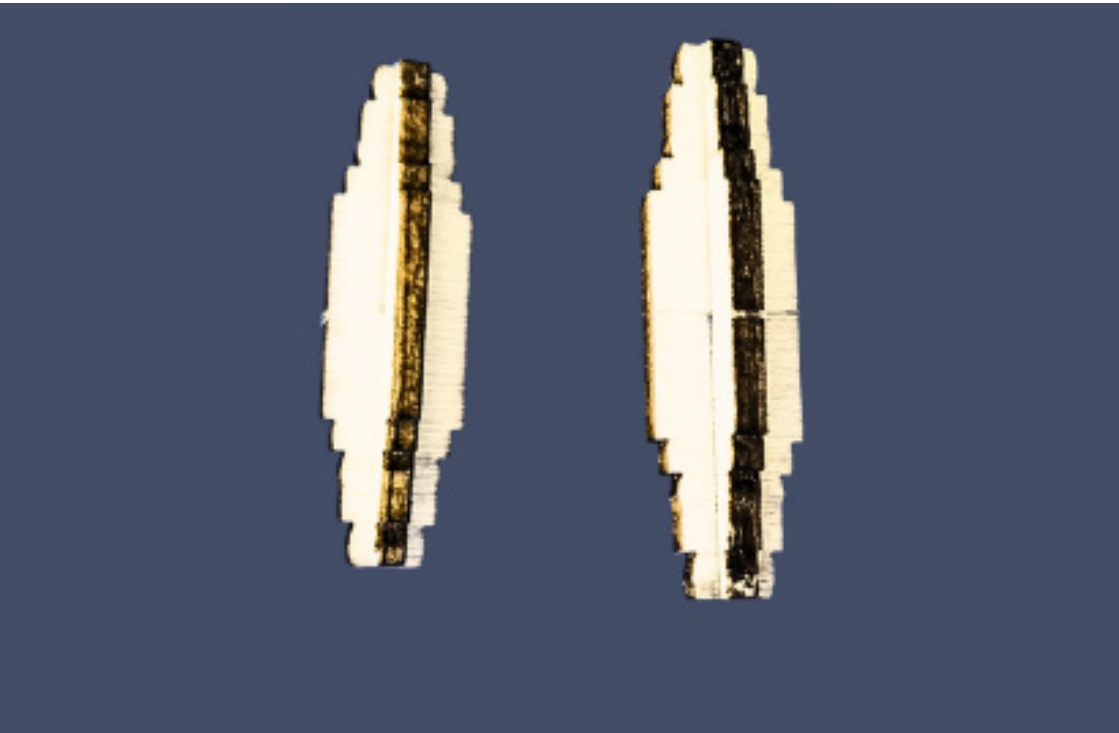


Step 5



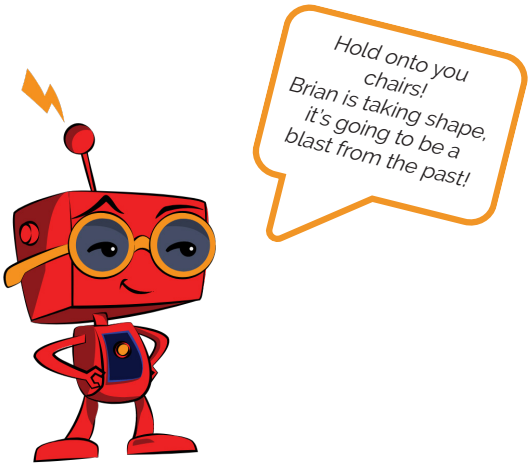
Look at the picture below, and make two clamping posts with two board 4s.

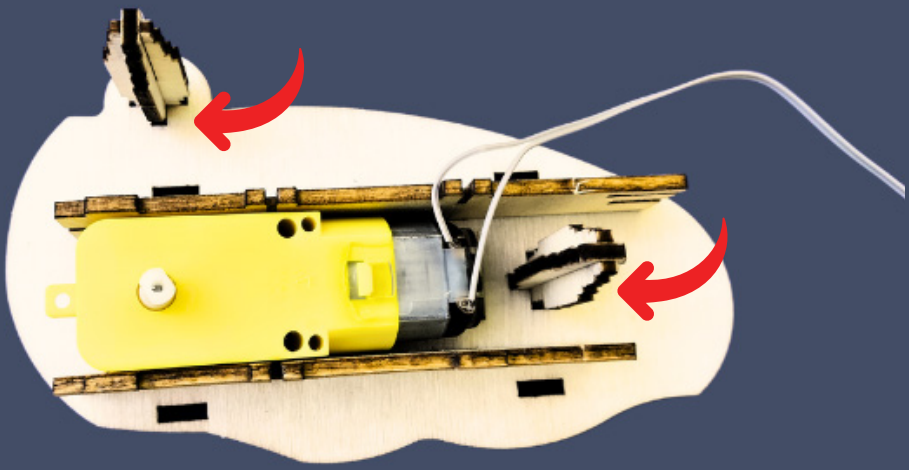
Do the same with the other two board 4s.



Step 6

Look at the picture below, and put the two clamping posts on board 3

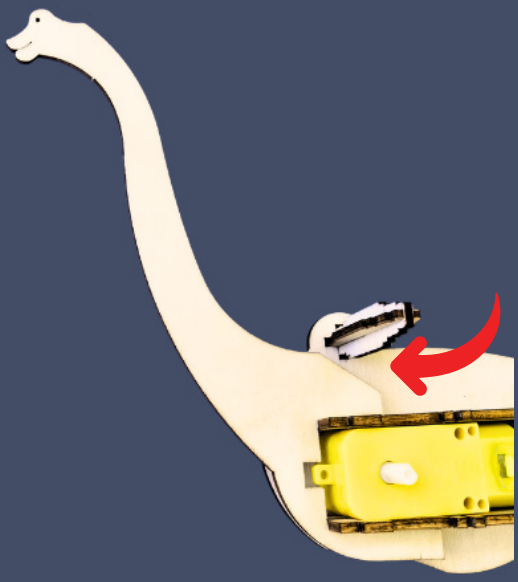




Step 7

5

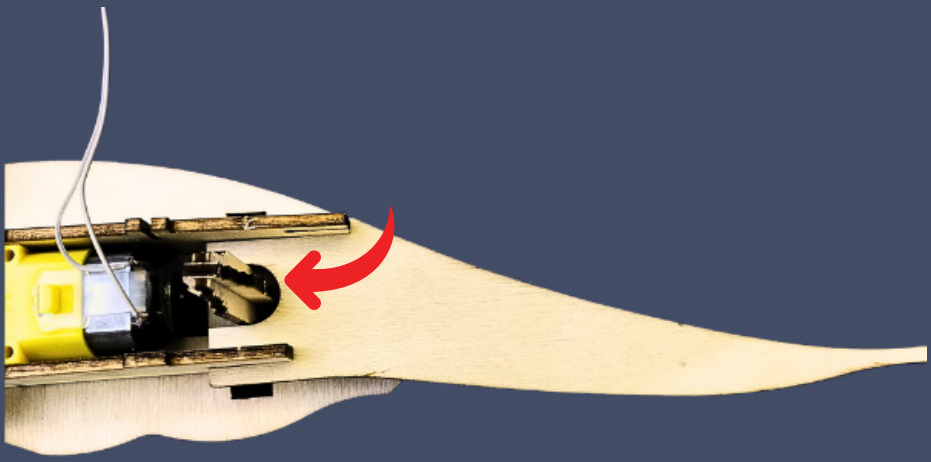
Look at the picture below, and put board 5 as the head over boards 1 and 2.



Step 8

⑥

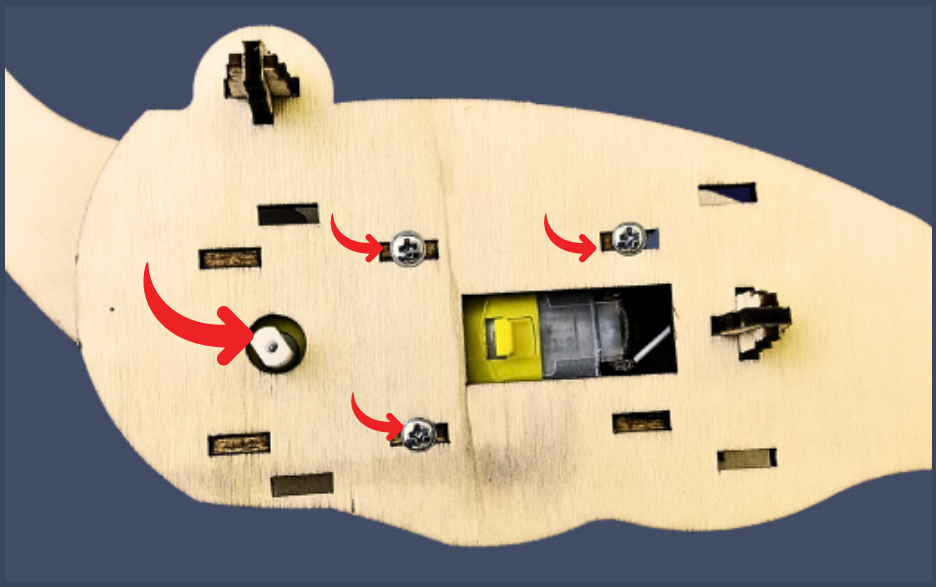
Look at the picture below, and put board 6 as the tail over boards 1 and 2.



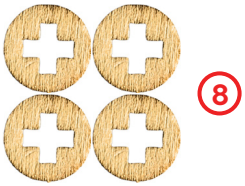
Step 9

Look at the picture below, and use 3 x 7mm screws to attach board 7. Then use 7mm screws to fix board 3 on the other side.

Make sure that the rotating shaft of the motor goes into the big round hole of board 3

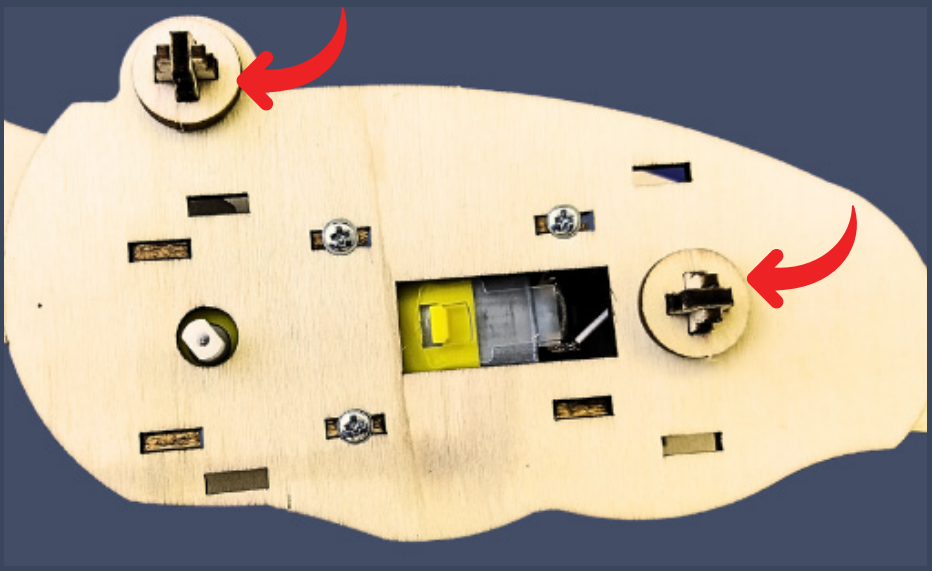


Step 10

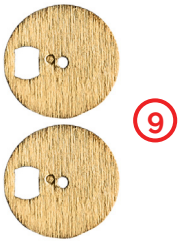


Look at the picture blow, and put four board 8s on both sides of the clamping posts.

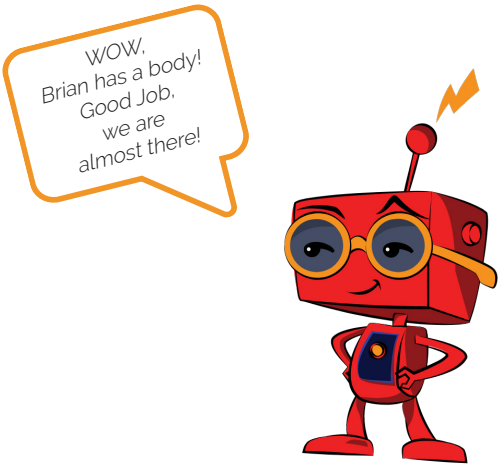
Do the same with both ends of the clamping posts on the opposite side

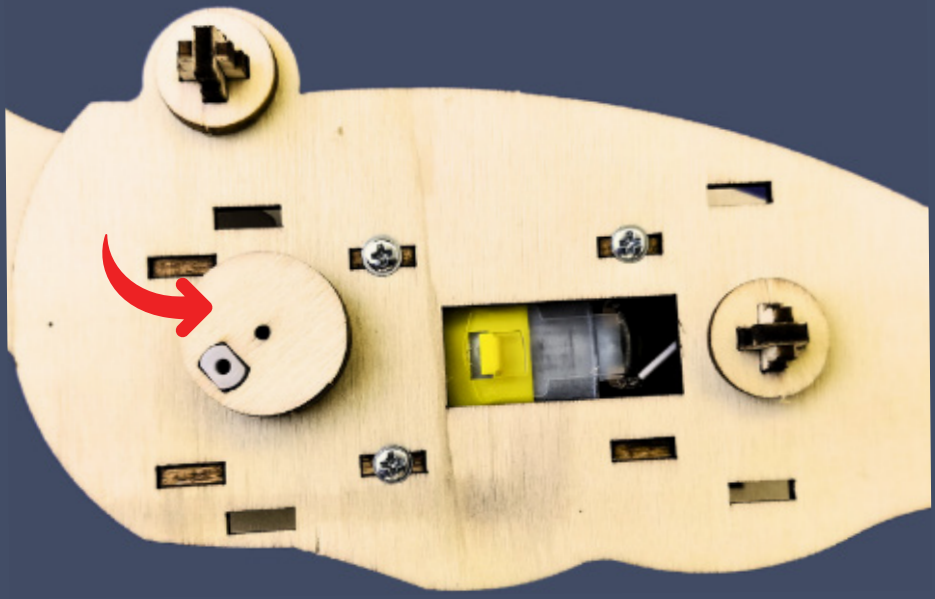


Step 11

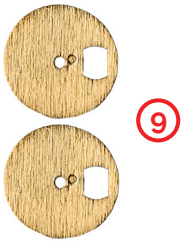


Look at the picture below, and put two board 9s on the rotating shaft of the motor.



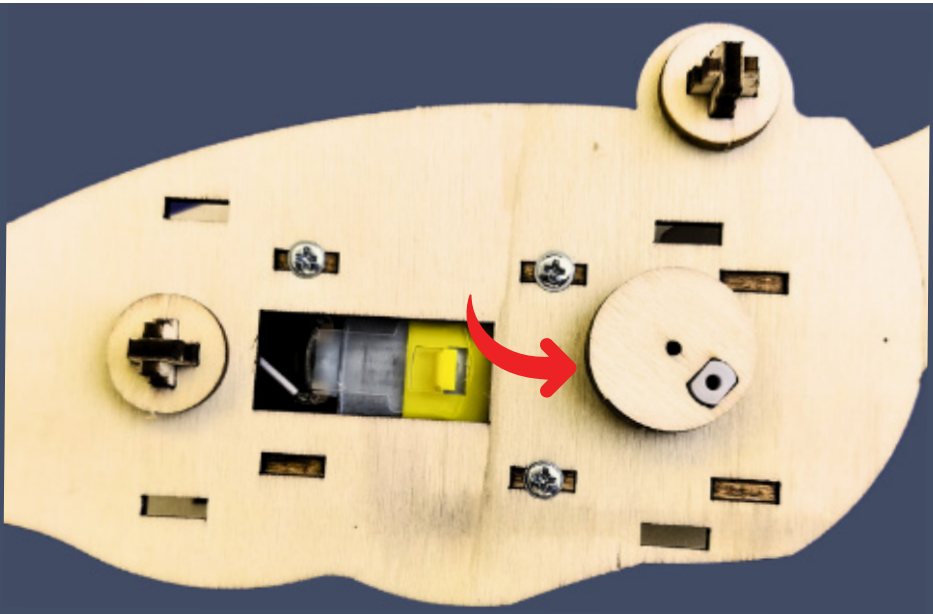


Step 12

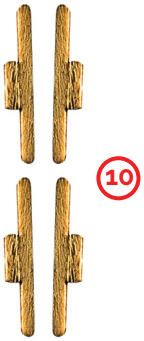


Now put the other 2x board 9s on the other end of the rotating shaft of the motor.

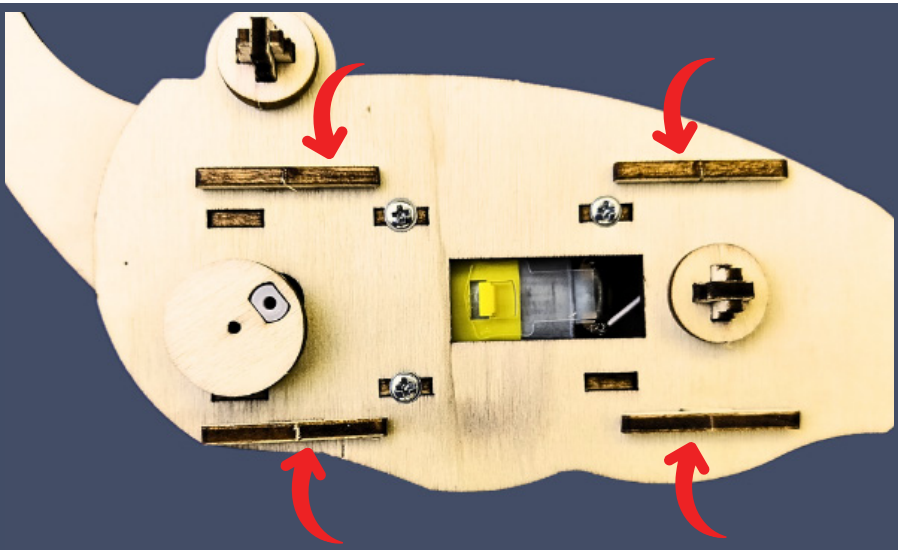
Make sure that they face opposite directions from each other



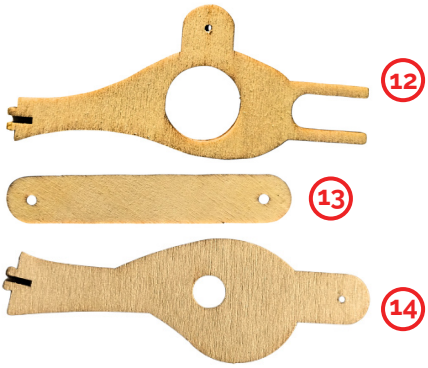
Step 13



Look at the picture below, and put four board 10s on board 7. Then do the same with board 3 on the other side

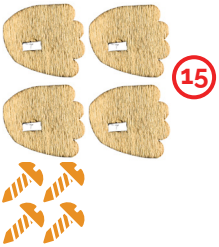


Step 14



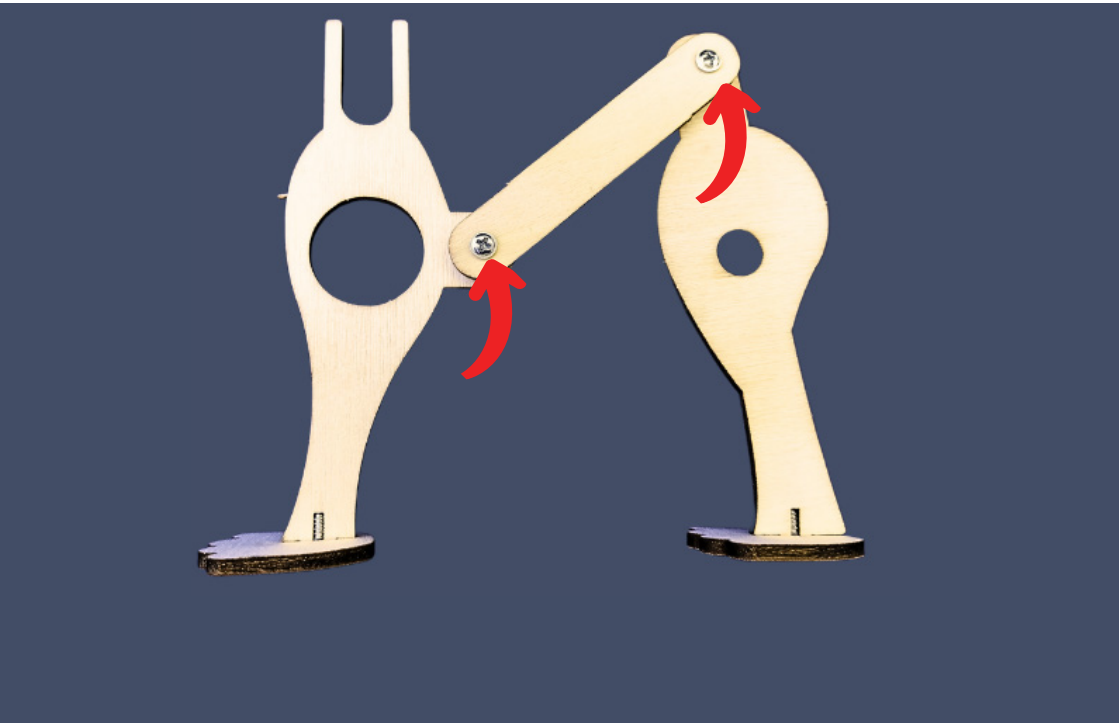
Now for my legs, use 2 x 7mm screws to make a left leg with boards 12, 13 and 14. Make sure that there is a small gap of 1mm between boards 12, 13 and 14.

Now use the other 2 screws to add the feet, board 15s.

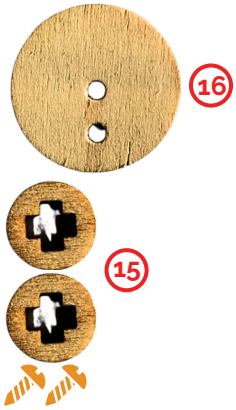


Then do the same to make a right leg, but make sure it is a mirror image of the left leg.

If there is no gap between the boards, your dinosaur model will not be able to move.

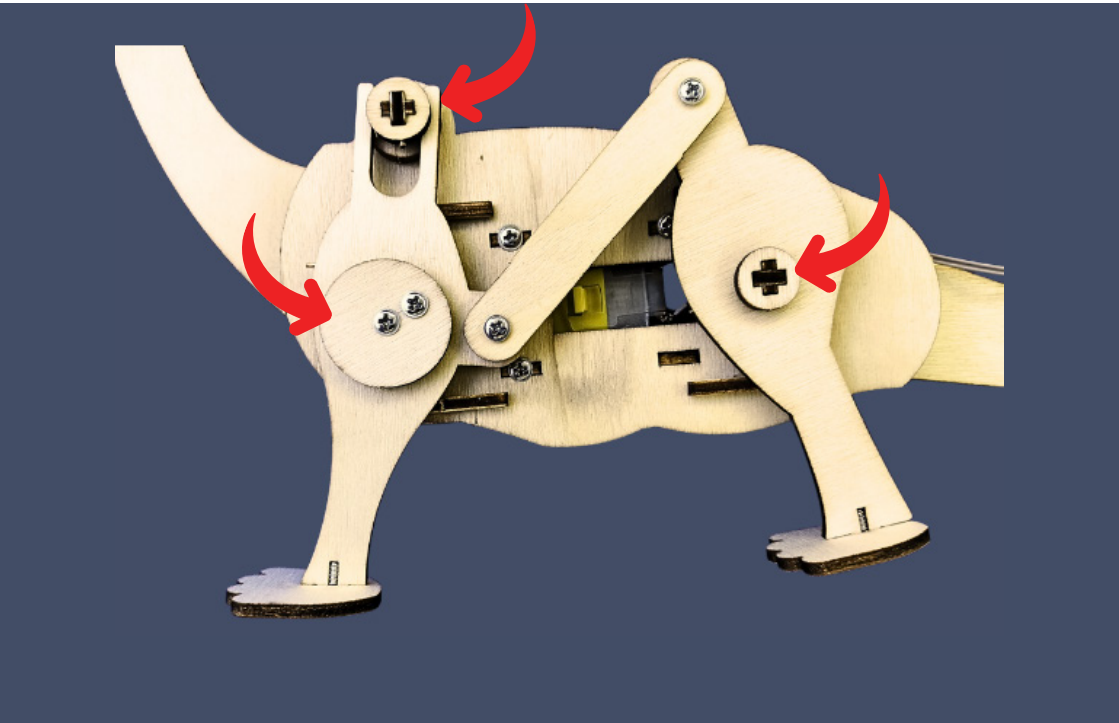


Step 15

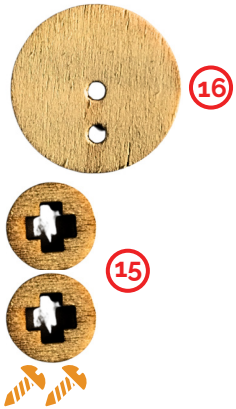


Look at the picture below, and put the left leg on board 9 and clamping post

Fix board 16 over the front leg and fasten it to the motor.



Step 16



Now add the right leg on the other side by repeating step 15.

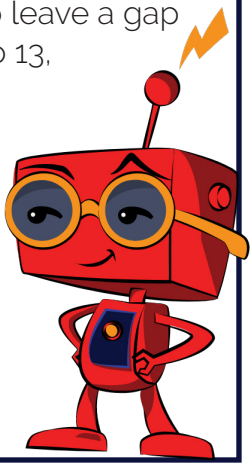
Now you have
your very own Brachiosaurus!

Finally, it's alive! Now we will become the best of friends!

Let's explore the gardens together, I'm getting hungry!

If Brian doesn't want to move!?

- Check if the wiring is connected right. You might need to reconnect it.
- Check if the battery is low on power. You might need to change it.
- Check if board No.9 in Step 12 is facing the opposite direction. If they face the same direction, Brian can't move.
- Check if the screws on board No.3 in Step 14 are too tight. You need to leave a gap of 1mm between boards No 13, No 12, and No 14.
- Check if the four screws in Step 14 on the feet are tight enough. If they are too loose, Brian's feet will wobble and he fall over.



Science

Technology

Engineering

Arts

Mathematics

Here's how they help:

1. *Hands-On Learning:*
   Kids do experiments and projects, making learning fun.

2. *Problem-solving:*
   This makes your child think outside the box to solve a problem.

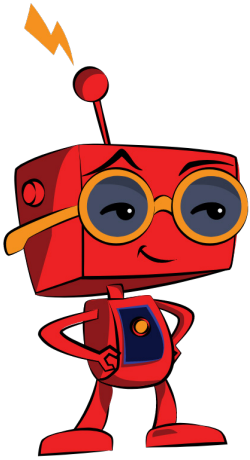
3. *Creative Thinking:*
   Arts and design are part of ***STEAM***, so kids get to be creative, and think of new ideas to build and create.

4. *Confidence:*
   Completing projects makes kids feel like they accomplished something, building confidence in creating more and unique things.

5. *Preparation:*
   STEAM skills are important for the future, so kids can use the skills they learn, to create a better future.

STEAM kits - help kids learn many skills they'll need in a fun and practical way.

Collect them all



With a bit of imagination you can create your own unique friends. Please share your creations with our community

Please ask you mom / dad / teacher or a grown up to help you to upload your creations to our community page on the website. We would love to see your creations and also share and inspire the little creator in you.

Rexzilla

T-Rex

Firecracker

Pterosaur

Trike

Triceratops