EST 2014

BOT SHOP

LET THE FUN BEGIN

Hello Trike

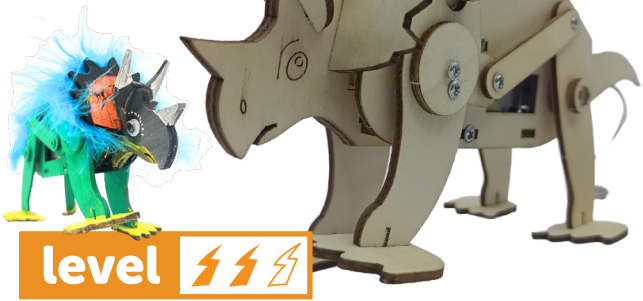
Triceratops

Discover the Joy of a Mechanical Friend

NOT included

AA AA

Includes:
paint and
art stuff
to create
your own
unique friend



level

Trike

the wooden mechanical walking Triceratops

Hey there, little buddy!

I'm Trike, the Triceratops, but you can call me Stubby Trike!

I'm a Triceratops and I'm here to tell you about me, so get ready for some Dino fun!

Did you know Triceratops means "Three-horned face" yeah, I know sounds kind of silly, right? But that's because my face has three horns.

Two above my eyes and one on my snout.

Just as striking was my frilled hood or ruff that rose behind my head, though no one is quite sure what it was for, but I think it was to make me look good.

I used to be a big dinosaur, kind of like a rhinoceros, but from a long, long time ago. I was really big, about as long as a bunch of cars lined up, and as tall as a tall basketball player. And guess what? I weighed as much as ten big elephants!

Now, let's get ready to build a cool toy version of me, Trike the Triceratops!

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!

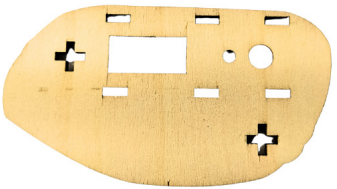
Remember to get 2 x AA batteries for Trike!

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.

What is in the BOX

16 x wooden parts
1 x remote control
1 x yellow motor
16 x 7mm screws
2 x 4mm screws
1 x screwdriver



x 1 — 1

x 1 — 2

x 1 — 3

x 4 — 4

x 4 — 5

x 2 — 6

x 2 — 7

x 2 — 8

x 1 — 17

9 — x 2

10 — x 2

11 — x 2

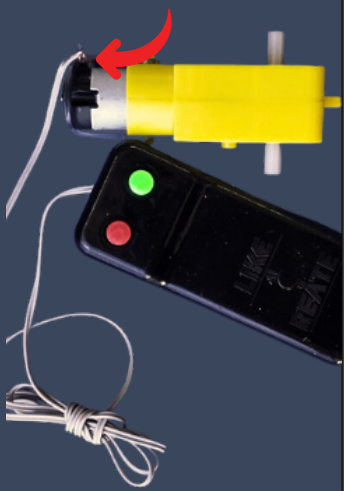
12 — x 4

13 — x 4

14 — x 2

15 — x 1

16 — x 1



Step 1

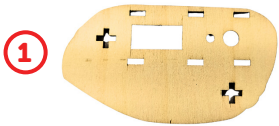
You will need to strip the wire on the remote so about 1cm of wire is exposed.

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.

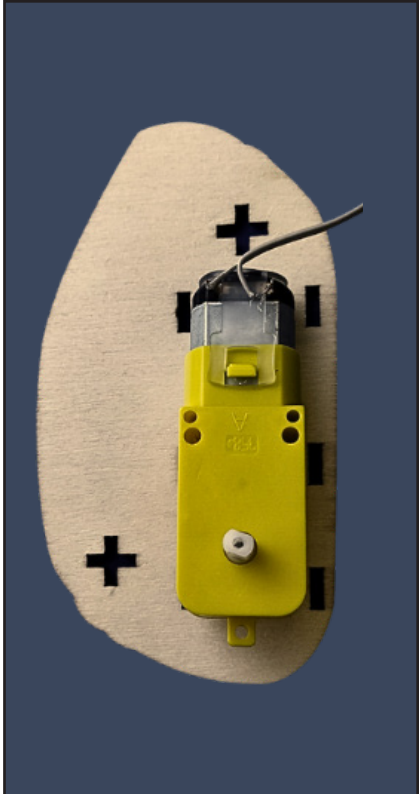
It's like giving Trike some power!

Step 2



Attach the yellow motor to board 1, just like giving it a special spot to rest. Remember, it fits perfectly in the designated hole.

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



Step 3

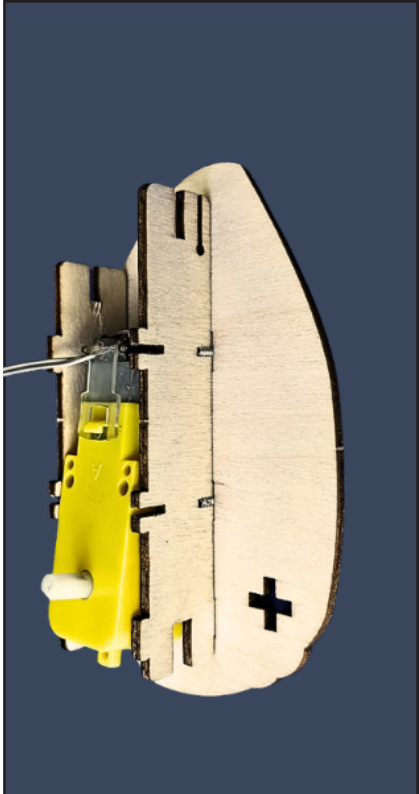
Get your trusty 7mm screws and attach board 2 to board 1

make sure the board faces the right way. It's like solving a puzzle!

Step 4

Keep the excitement going! Use those 7mm screws again to attach board 3 to board 1.

Check the direction – we don't want it to go backwards!

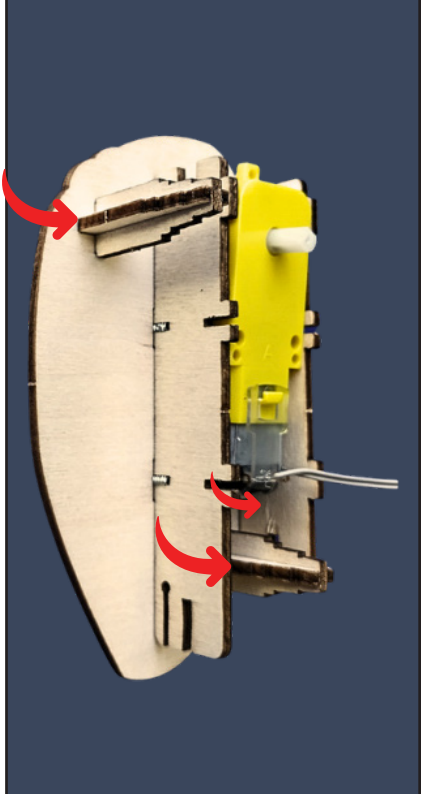


Step 5

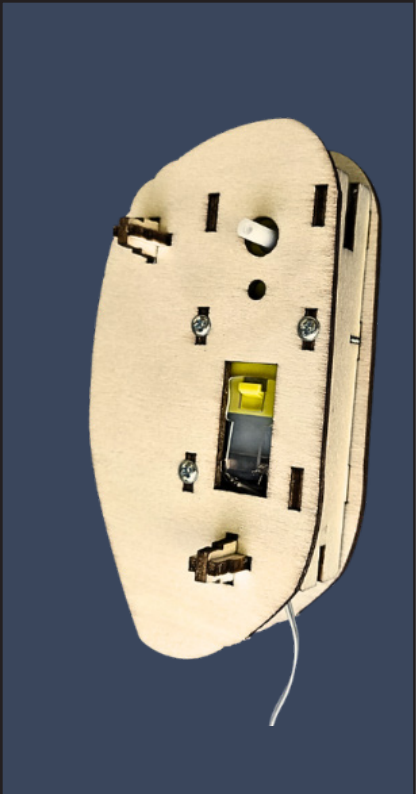
Now, time to build some support! Grab four No. 4 boards and assemble them into two, like building a strong foundation for our creature.

Step 6

Slide those two wooden stakes into the slots on board 1!

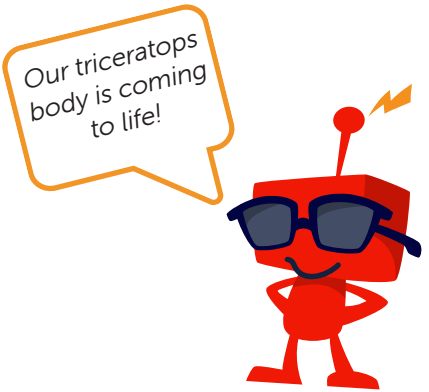


There's a secret path for the wires – make sure to tuck them into the wire trough. It's like a secret hideout!

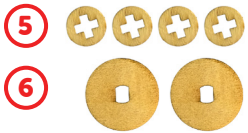


Step 7

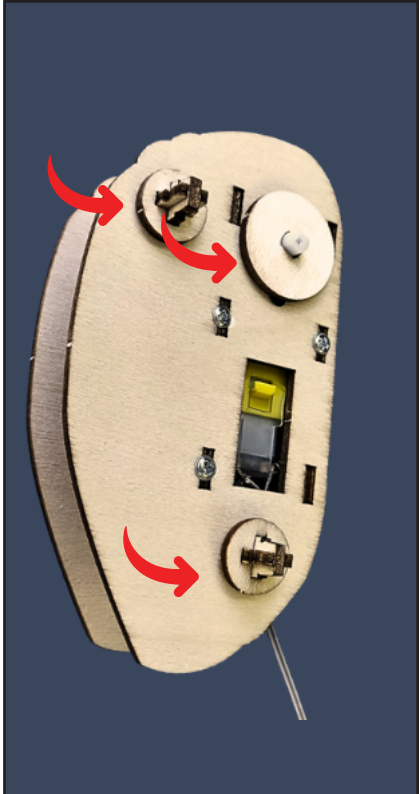
Let's move forward! Use the 7mm screws to attach the other no. 1 board to the wooden stakes and boards 2 and 3.

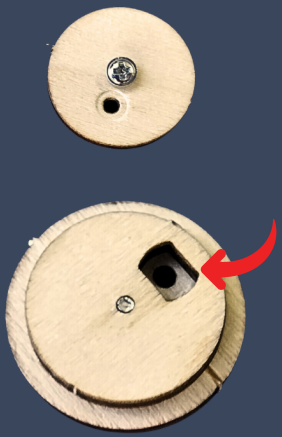


Step 8

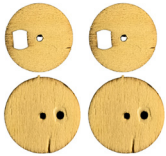


Attach the 4 number 5 boards to the wooden stakes and align them with the yellow motor's rotating shaft. Twist board 6 to make everything line up perfectly.
It's like a synchronized dance!





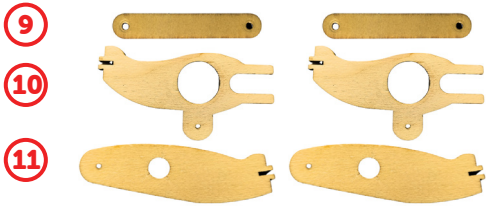
Step 9



It's time for the triceratops to get its joints! First, connect the board 7 to board 8, and then secure them together with 4mm screws.

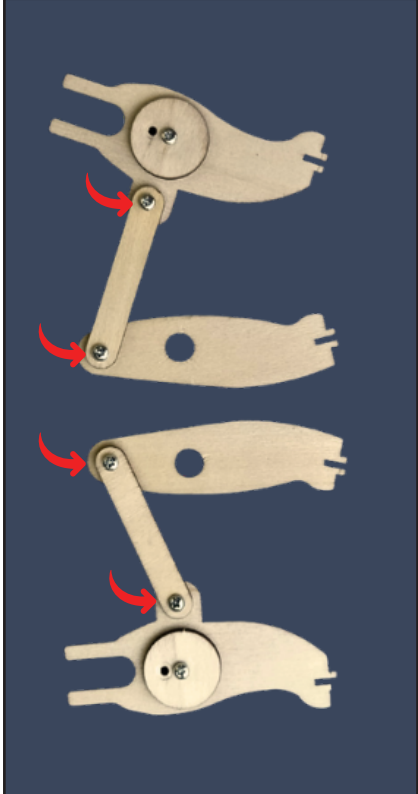
These joints will hold the legs later on. Remember, align the holes and the special round holes of board 7 with the rectangular holes. Double the fun with two identical joints!

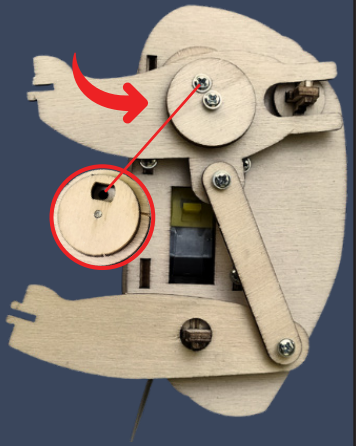
Step 10



Now, let's add the finishing touch to the legs! Attach the No. 9 strip board to the No. 10 and No. 1 boards using those trusty 7mm screws.

Remember the orientation of the round hole – let's make sure our triceratops stands tall!





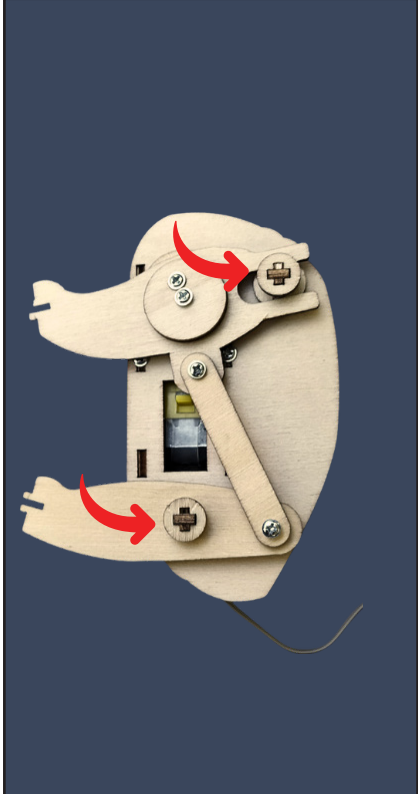
Step 11

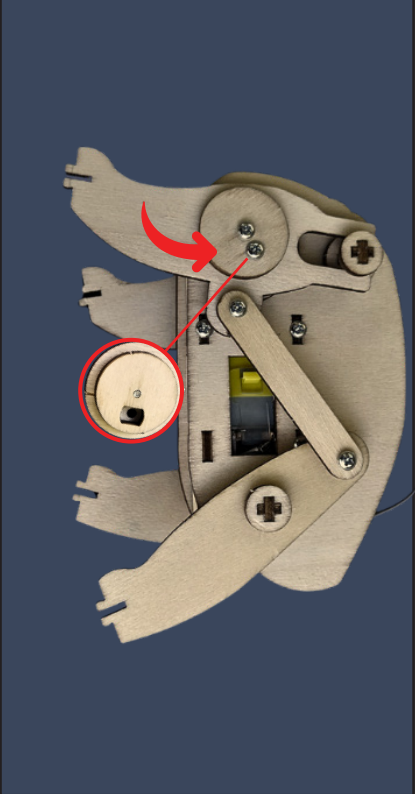
Time to bring those legs to life! Attach the legs to the wooden stakes and fix the "joints" onto the rotating shaft of the yellow motor using 7mm screws.

But wait, don't tighten them completely – leave a tiny gap for some extra flexibility!

Step 12

It's time for some decoration!
Attach two small round boards to the stakes, like adding some colorful buttons to our triceratops.



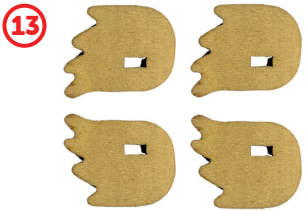


Step 13

Keep the rhythm going!

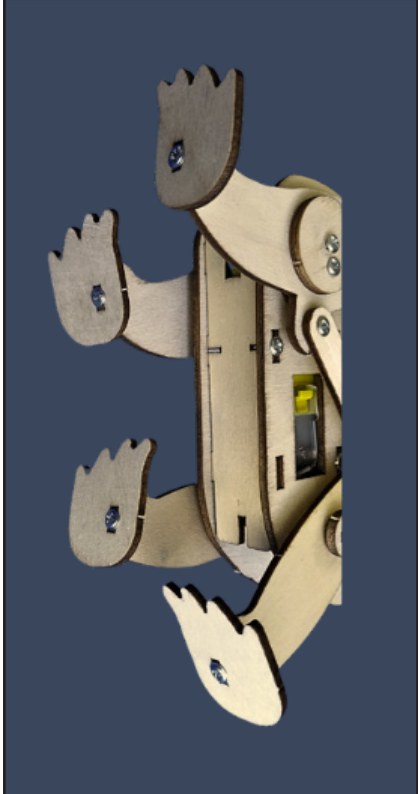
Follow Step 10, Step 13, and Step 14 to attach the other two legs to the wooden stakes. Make sure to adjust their positions, so they're just right for the triceratops to strut its stuff!

Step 14

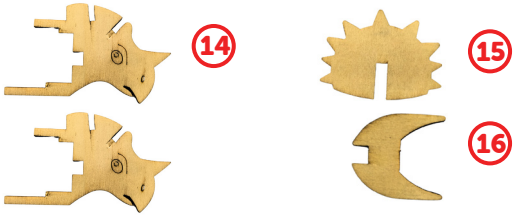


Our triceratops is ready to walk! Use 7mm screws to attach the four No. 13 foot sole plates to the legs. Remember, place the narrow side of the foot plates facing inward

it's like giving our triceratops stable shoes for a wild adventure!



Step 15



Let's create a majestic head for our triceratops!

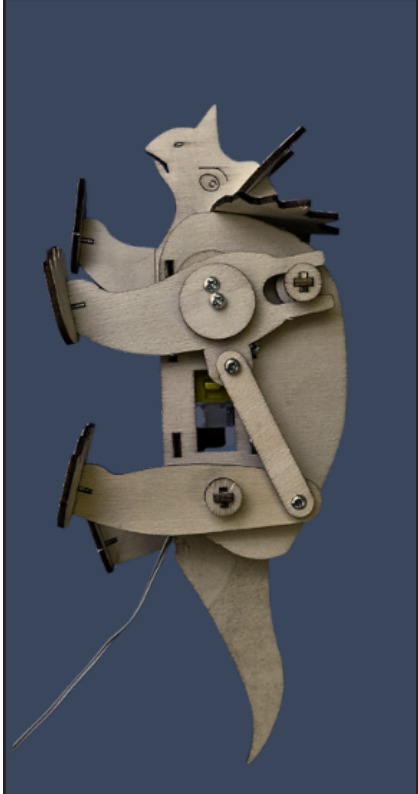
Assemble the two No. 14 boards and No. 15 and 16 boards together. Remember, the eye patterns of the No. 10 boards should face outward

our triceratops wants to see the world!

Step 16

17

Bring the head and body together! Attach the triceratops head to the body part, like joining two best friends for an amazing journey!



Now you have
your very own Triceratops!

Congratulations, adventurer! Our mechanical triceratops is now complete. Open the battery cover on the back of the controller, insert the battery, close the cover, and press the red or green button to see our triceratops come to life. Get ready for an epic show of mechanical magic and have a roaring good time!

If Trike 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. Check if board No.9 in Step 12 is facing the opposite direction. If they face the same direction, Trike 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.3, No.2, and No.4.
- Check if the four screws on Step 18 and feet are tight enough. If they are too loose, feet will wobble and fall over.

S Science

T Technology

E Engineering

A Arts

M Mathematics

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

Here's how they help:

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

2. *Problem-solving:*
   They learn to solve problems by thinking and trying things out.

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

4. *Confidence:*
   Completing projects makes kids feel like they accomplished something

5. *Preparation:*
   STEAM skills are important for the future, so kids are ready for jobs.

Collect them all

Please ask your 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.

Firecracker
Pterosaur

Rexzilla
T-Rex

Brian
Brachiosaurus