Hello Mansion Manor

Mechanical Ferris wheel

Discover the Joy's of a
Mechanical Friend

Batteries
NOT
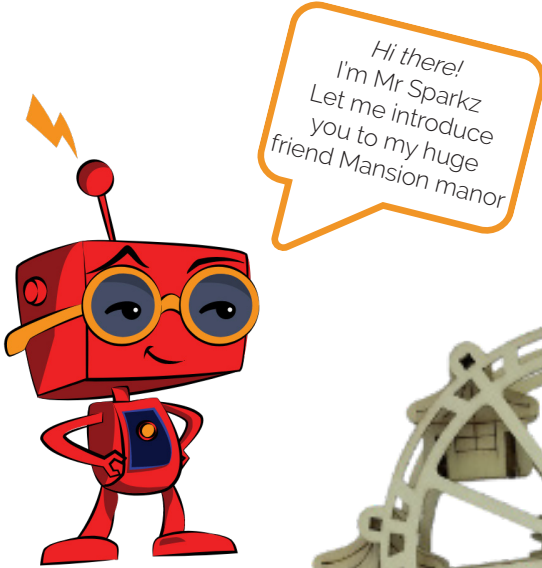included

level

Mansion Manor
Mechanical Ferris wheel

*Hi there!
I'm Mr Sparkz
Let me introduce
you to my huge
friend Mansion manor*

Hey there, little creator!

I'm Mansion manor,
the mechanical
ferris wheel.

Hello there, young explorer! I am the Mansion Manor Wooden Mechanical Ferris Wheel, and I'm here to take you on an exciting adventure.

I'm not just an ordinary Ferris wheel; I'm a special one made of wood and gears! You see, a Ferris wheel is a big round structure with small rooms hanging on it like cabins. People get inside those cabins and go for a ride high up in the sky. It's a thrilling experience!

So, my dear little adventurer, get ready to have a fantastic time exploring gears, and circuits, and creating our wooden mechanical Ferris wheel. Let's learn, play, and have an amazing adventure together!

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.
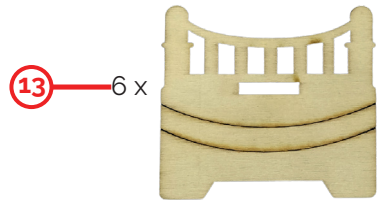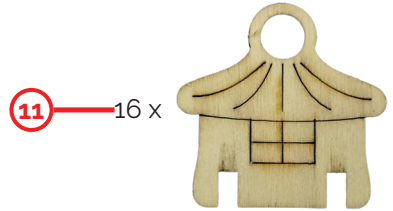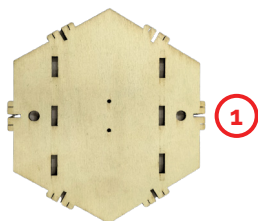
What is in the BOX

- 14 Pieces of board
- 1 yellow gear
- 1 battery box
- 1 shaft
- 2 orange fixing rings.
- 3 4mm screws
- 22 7mm screws

X 1 — (1)

8 — 1 x

X 1 — (2)

9 — 2 x

X 2 — (3)

10 — 7 x

X 2 — (4)

11 — 16 x
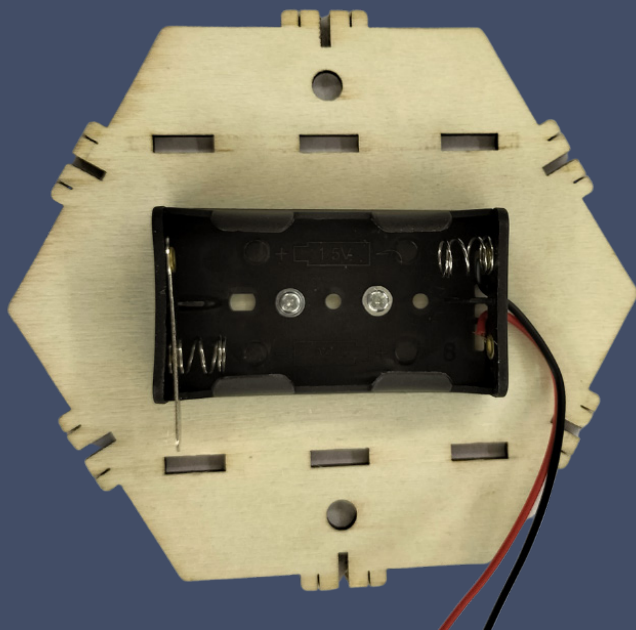
X 1 — (5)
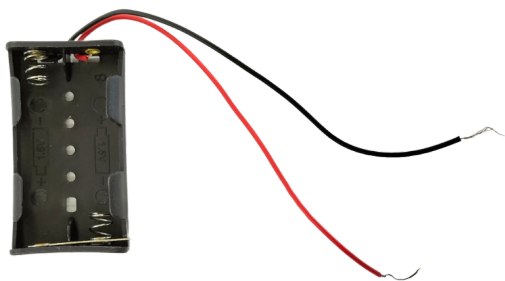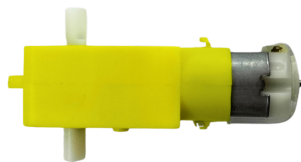
12 — 16 x

X 1 — (6)

13 — 6 x

X 1 — (7)
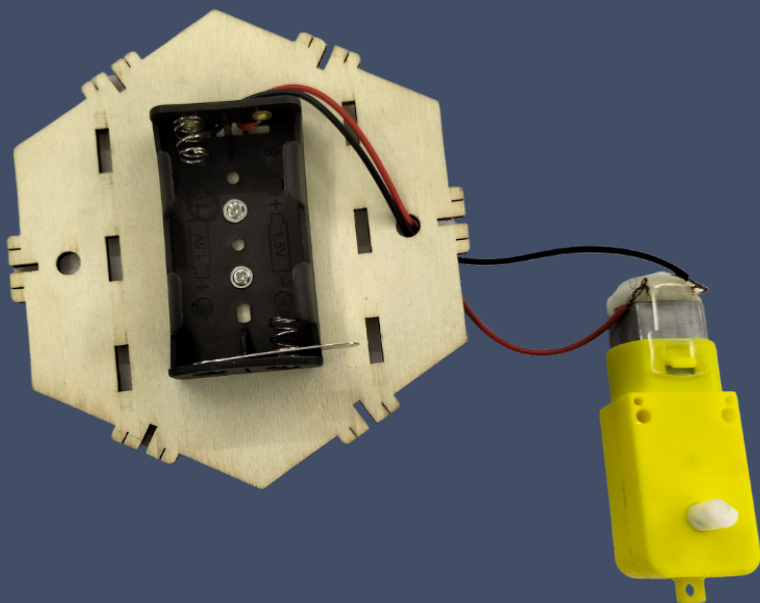
14 — 4 x
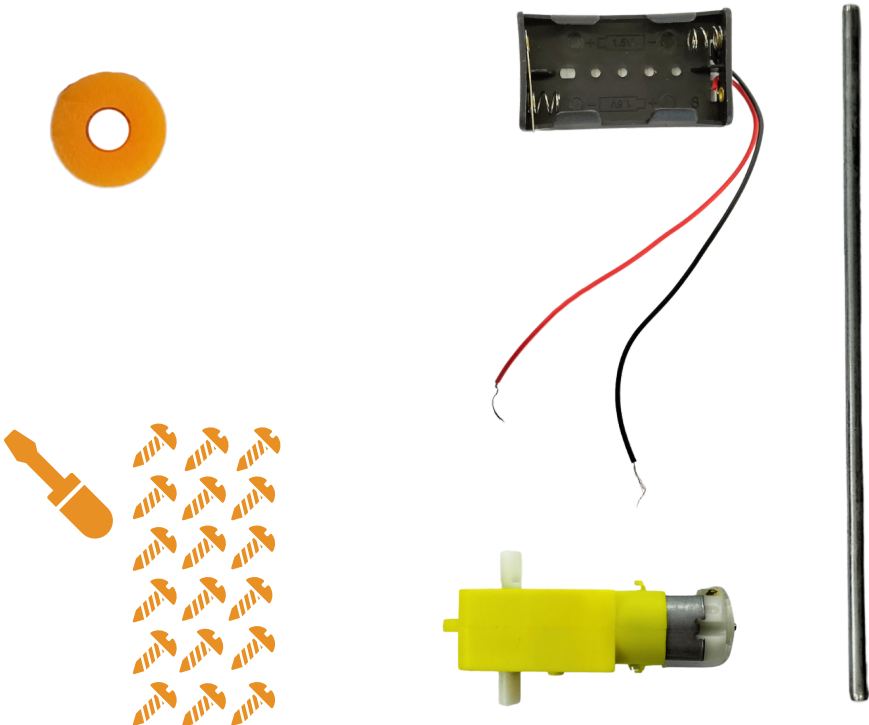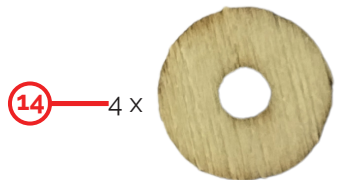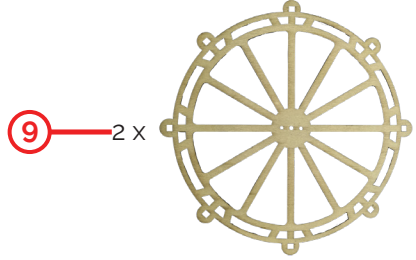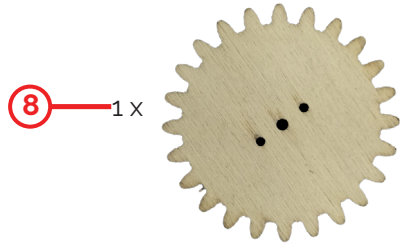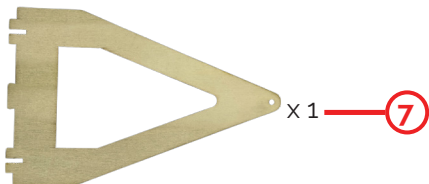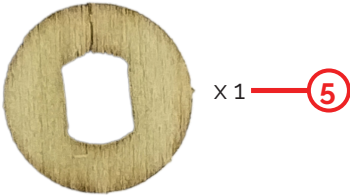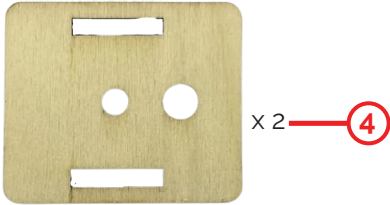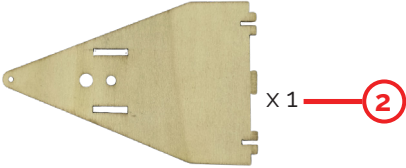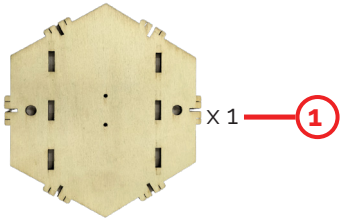
Step 1

Using two 4mm screws, attach the battery box to board 1. Look at the picture to know where it goes. Then, pass the two wires of the battery box through the round holes on board 1.
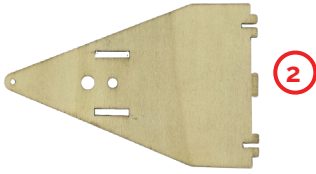
Step 2

Take the two wire ends from the battery box and connect them tightly to the copper holes on the motor (the black wire goes on the left side, and the red wire goes on the right side).
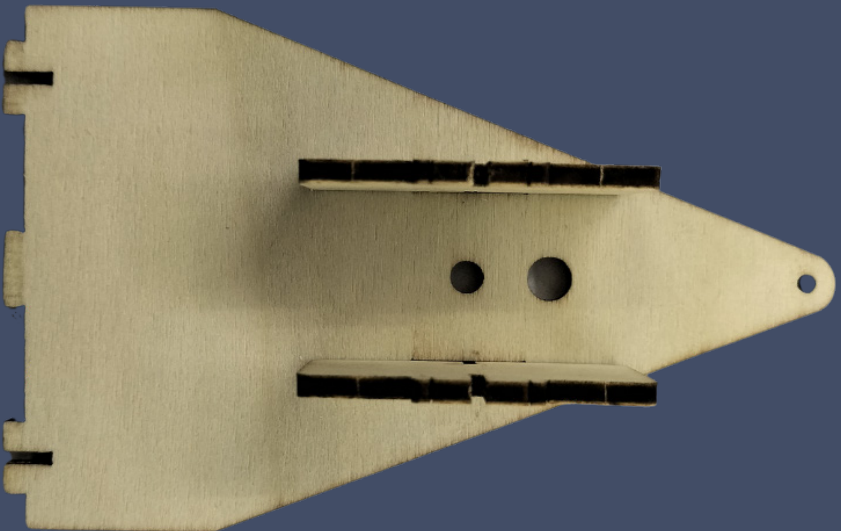
Step 3

Put the two number 3 boards on top of board 2 and use two 7mm screws to attach them at the bottom.

Step 4

④

Line up the motor's rotating shaft with the big round hole on board 2 and install it there. Next, attach board 4 on top of the two number 3 boards and tighten the two 7mm screws.
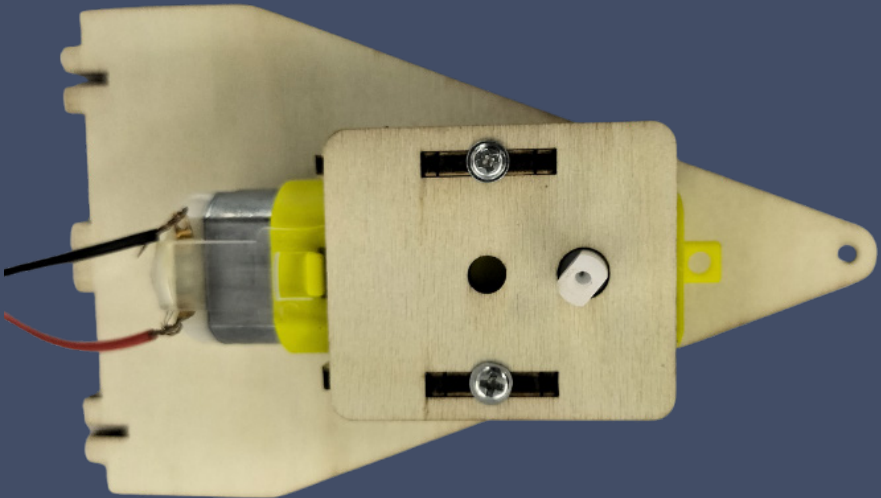
Step 5

Using the picture as a guide, install board 2 onto board 1 and secure it with two 7mm screws at the bottom (make sure the motor is facing outward).
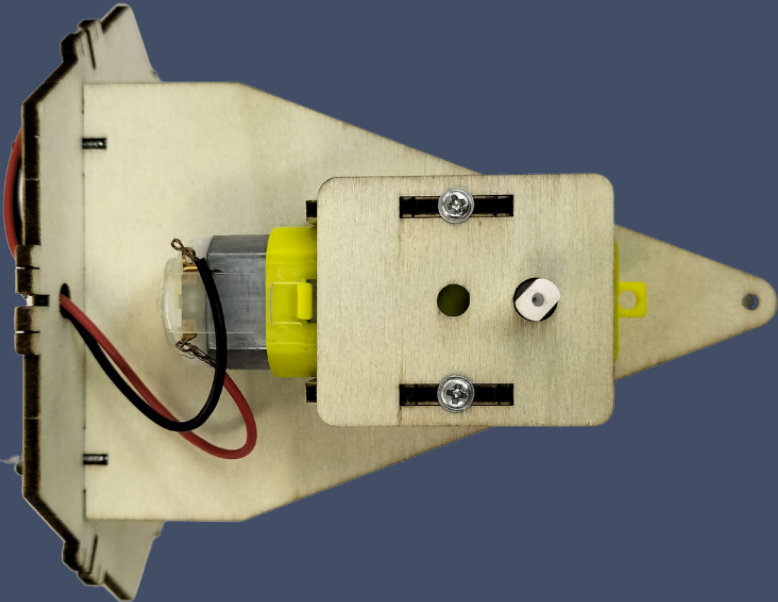
Step 6

(5)

(6)

One by one, put boards 5 and 6 onto the white shaft of the motor. Finally, use a 7mm screw to tighten them in place.

Step 7

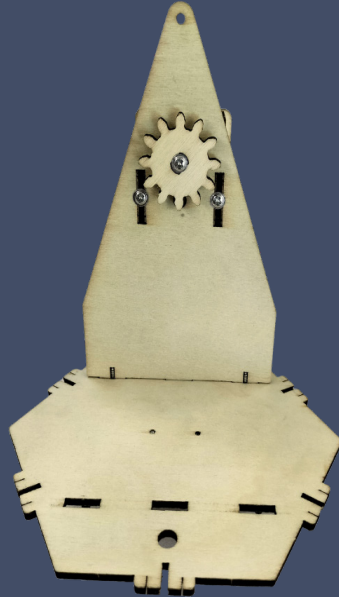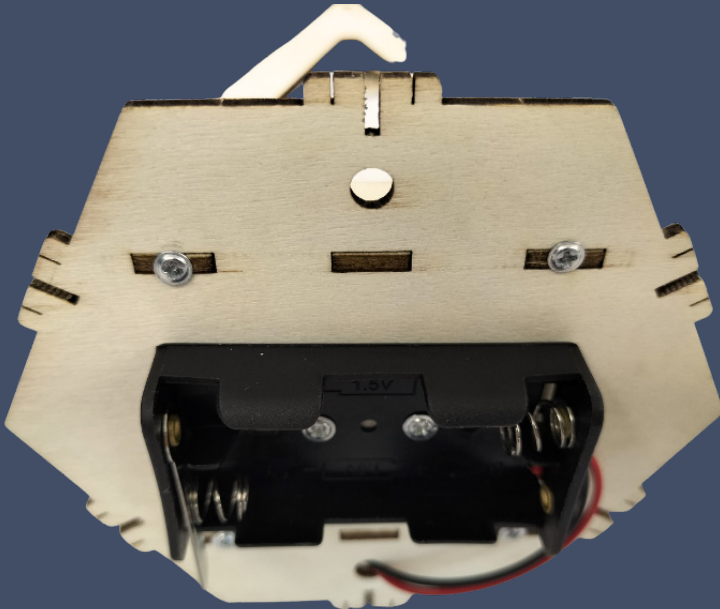Following the picture, install board 7 onto board 1 and secure it with two 7mm screws at the bottom.

9

8
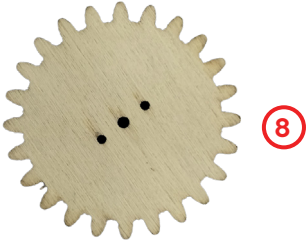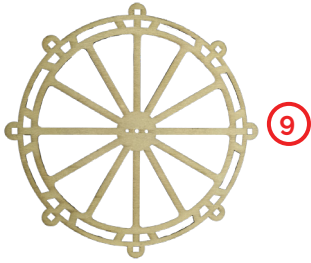
As shown in the picture, use two 7mm screws to attach board 8 to board 9.

Step 9

(10)

(11)

(12)
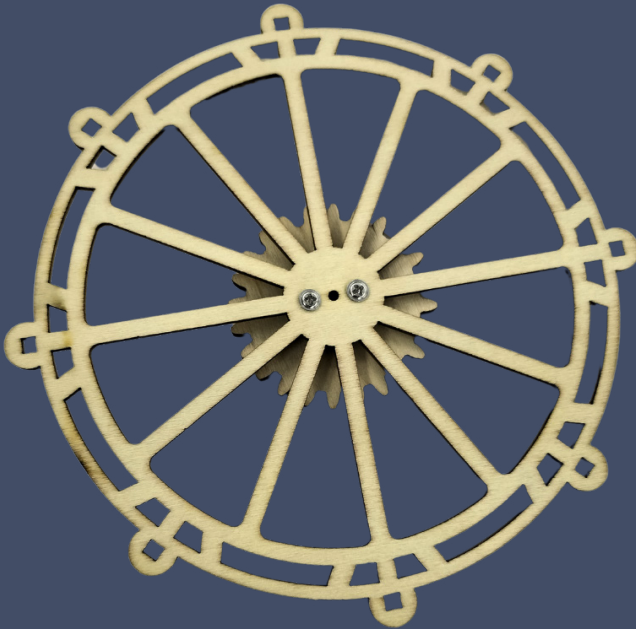
Place two number 11 boards on both sides of board 10. Then, put two number 12 boards as shown in the picture. Press them against the desk to make sure they are installed properly.

Step 10

Repeat step 9 seven more times to install a total of eight sets of components.

Install six number 13 boards onto board 1 using six 7mm screws.

(13)
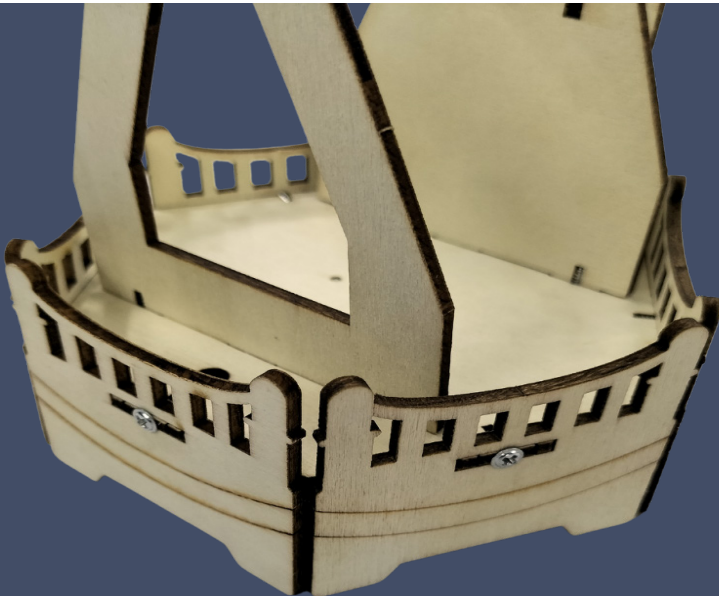
Attach one end of the long shaft to a small rod, then pass the other end of the iron shaft through boards 2 and 14.
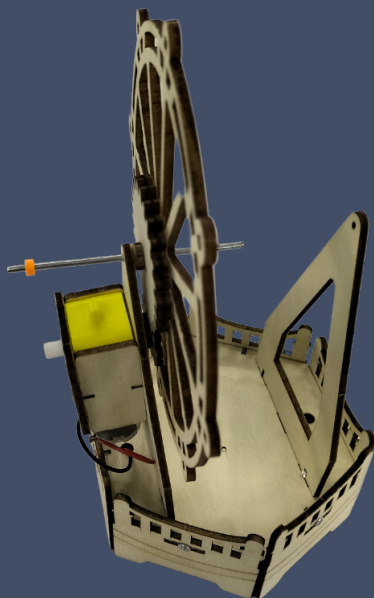
Step 13

Put the iron shaft from step 13 through the components from step 9 and another number 9 board (make sure the big gear is facing outward). Attach one end of the long iron shaft to a small rod, then pass the other end of the iron shaft through boards 2 and 14.

Install one set of components
from step 10 onto each of the two
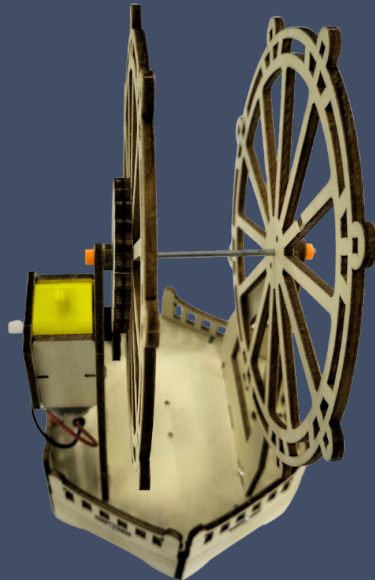number 9 boards, following the
positions in the picture.
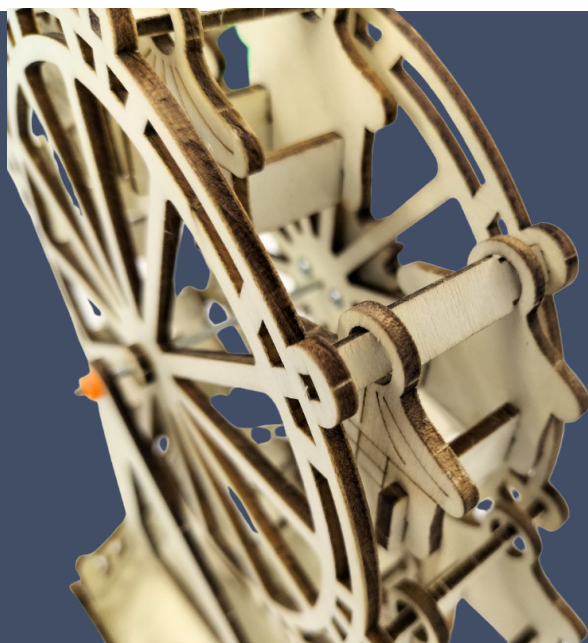
Step 15

Using the same method as step 16, install the remaining seven sets of components from step 11 onto the two number 9 boards.

After completing all the steps, insert the batteries and turn on the power for the Ferris wheel. If it spins smoothly, it means the finished product is working perfectly!

Now you have
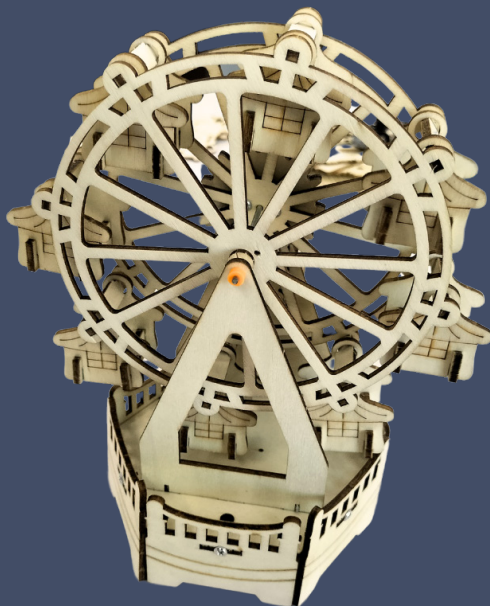## your very own mechanical ferris wheel!

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

Let's explore the trilling ride together.

If Mansion manor doesn't want to work!?

- Check whether the wiring has been connected and whether the battery is installed incorrectly. See step 3 and step 18; 3. Check whether the battery is low on power and try replacing it with a new one.
- Check whether the two gears are meshed.
- (Detection step 10, step 11, step 16 and step 17)

S Science

T Technology

E Engineering

**A** Arts

M Mathematics
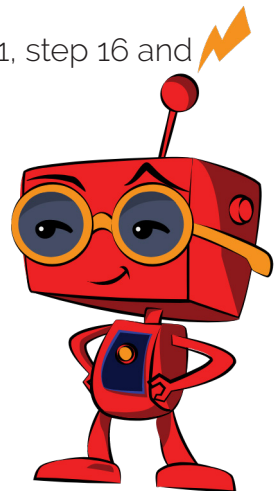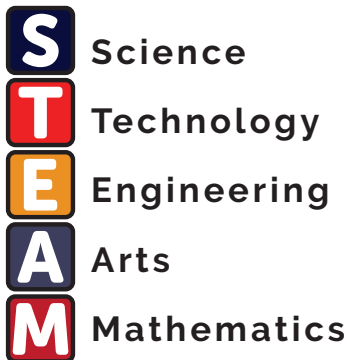
Here's how they help:

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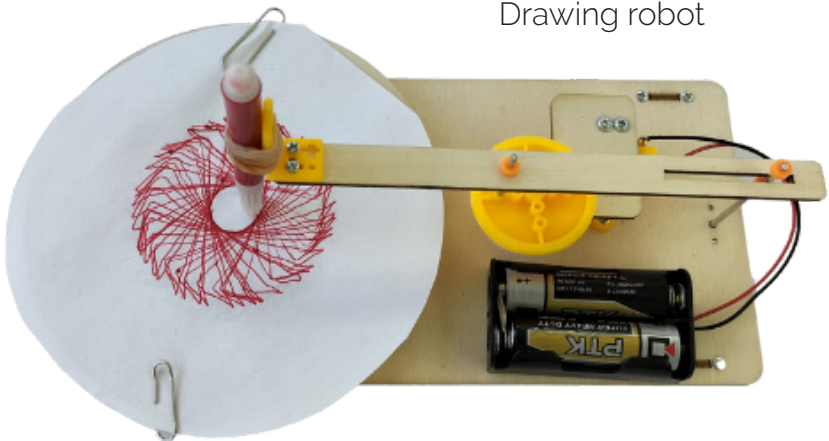
Collect them all
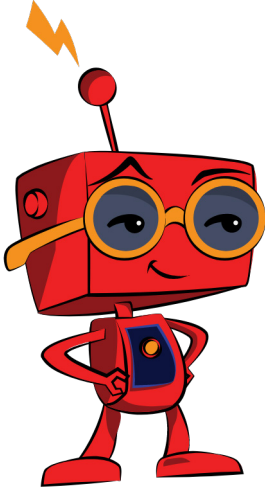
With a bit of imagination you can create your own unique friends. Please share your creations with our community

Please ask 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.

Scratchy
Drawing robot

Hipno
Hypnotic window

Charlie
Horse carousel