

# Fire Ladder Truck

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Cherish Life

Stay Away from Fire





# 01 | Basic Fire Knowledge

# Who are they?



What happened here?



What are they doing?





# What harm can fires cause?

- Burn forests and destroy nature



- Burn our houses and buildings



- Injure people and cause loss of life





# What can cause fires in daily life?





Is this the right thing to do?





# Is this the right thing to do?



- Children must not turn on gas stoves!



- Children must not play with electrical appliances or sockets!



Children, if you see someone  
doing this, we must stop them  
immediately!



# 02 | Knowing Fire Equipment



# Common Fire Equipment



- Fire Extinguisher



- Fire Extinguisher Box



- Fire Hydrant



- Manual Fire Alarm





# Dry Powder Fire Extinguisher — How to Use



## Applicable to:

- Solid fires
- Liquid fires
- Gas fires
- (Usually placed in corridors)



## Usage Method:

- Check if the pressure gauge pointer is in the green area. If yes, shake the extinguisher upside down to loosen the powder.
- Pull out the safety pin, hold the hose with one hand, and the handle with the other.
- Stand at a safe distance (about 2-3 meters upwind from the fire source). Press the handle firmly and aim at the base of the flames.
- Note:
  - The pressure gauge pointer should be in the green area.
  - Red means insufficient pressure; yellow means too high pressure.

# 03 | Fire Escape

How to escape





# 如何逃生?



- Quickly dial 999 and shout loudly: "Fire! Help!"



- Escape quickly, do not take your belongings.



- Do not use elevators during a fire; move toward the emergency exit.

# How to Escape?



- If all escape routes are blocked by fire, call for help from windows or balconies where you can be easily seen.



- If the door feels hot, do not open it to prevent flames from rushing in.
- Close and seal doors and gaps connected to the fire area, and pour water to cool them down.



# How to Escape?



- When smoke is heavy, cover your mouth and nose with a wet towel or handkerchief, and move low or crawl forward.



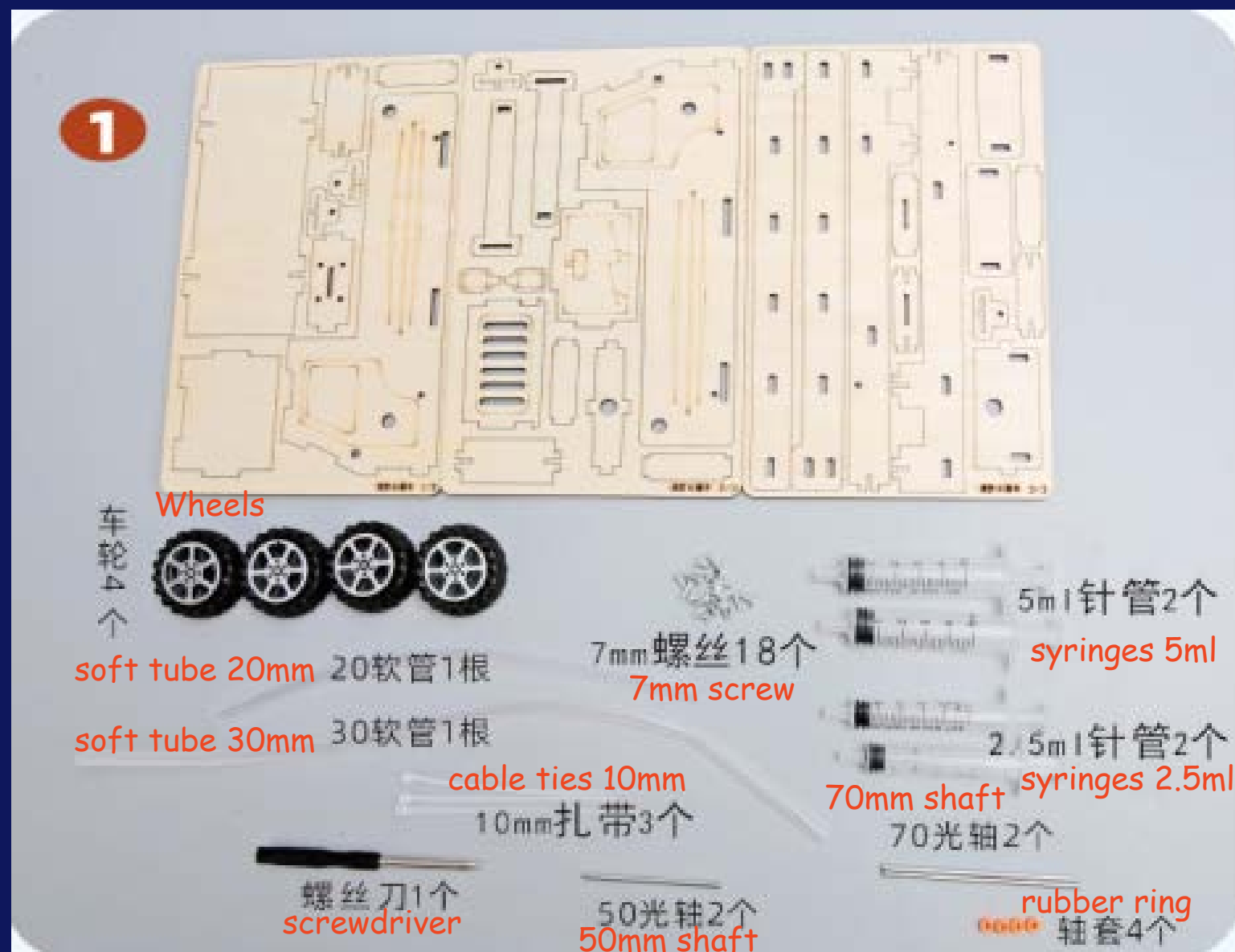
- Do not panic or run around. If your clothes catch fire, remove them quickly, roll on the ground, or cover yourself with a wet blanket to extinguish the flames.



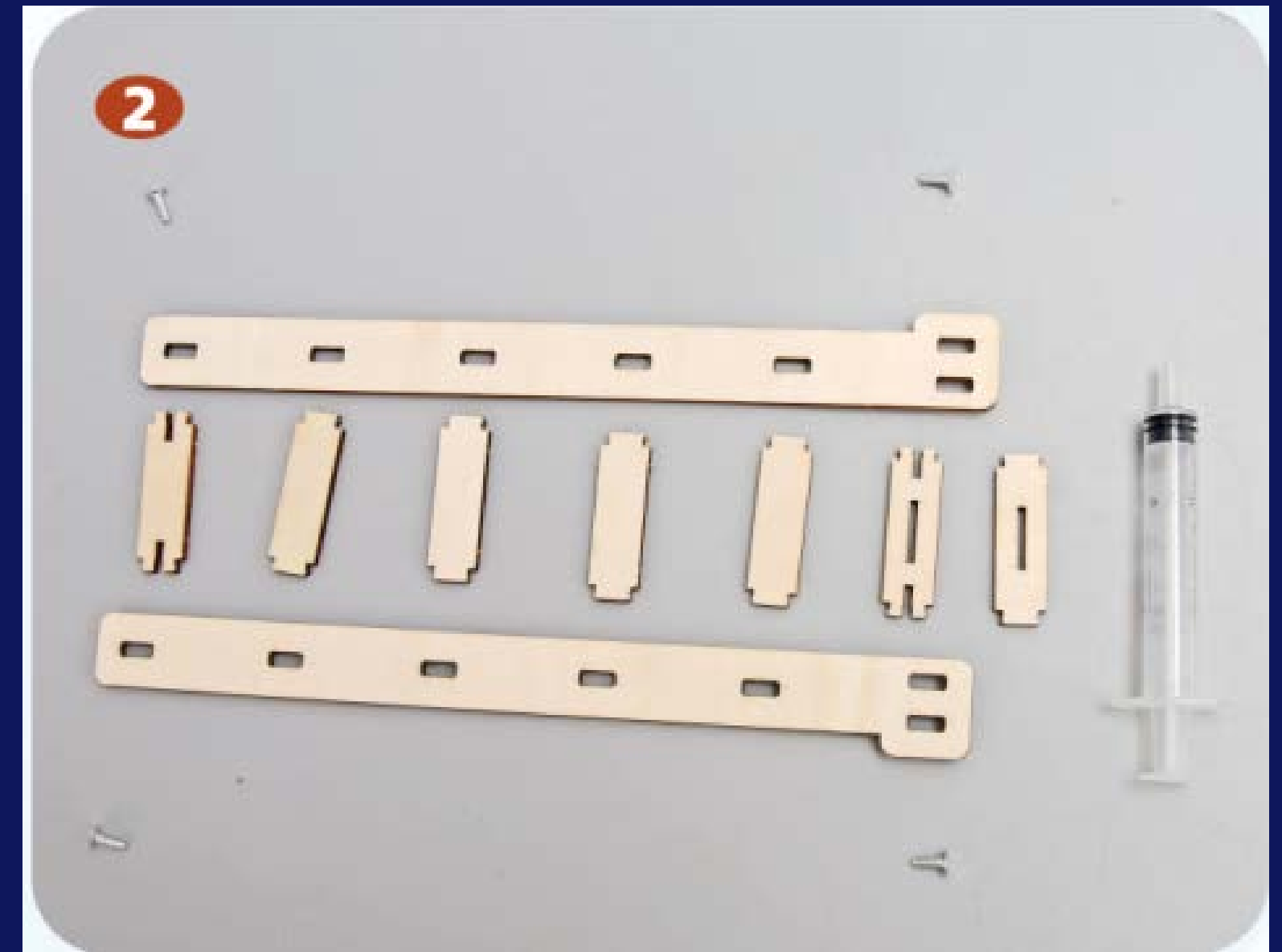


# 04 | Making a Fire Ladder Truck

# 实验步骤



Identify the materials

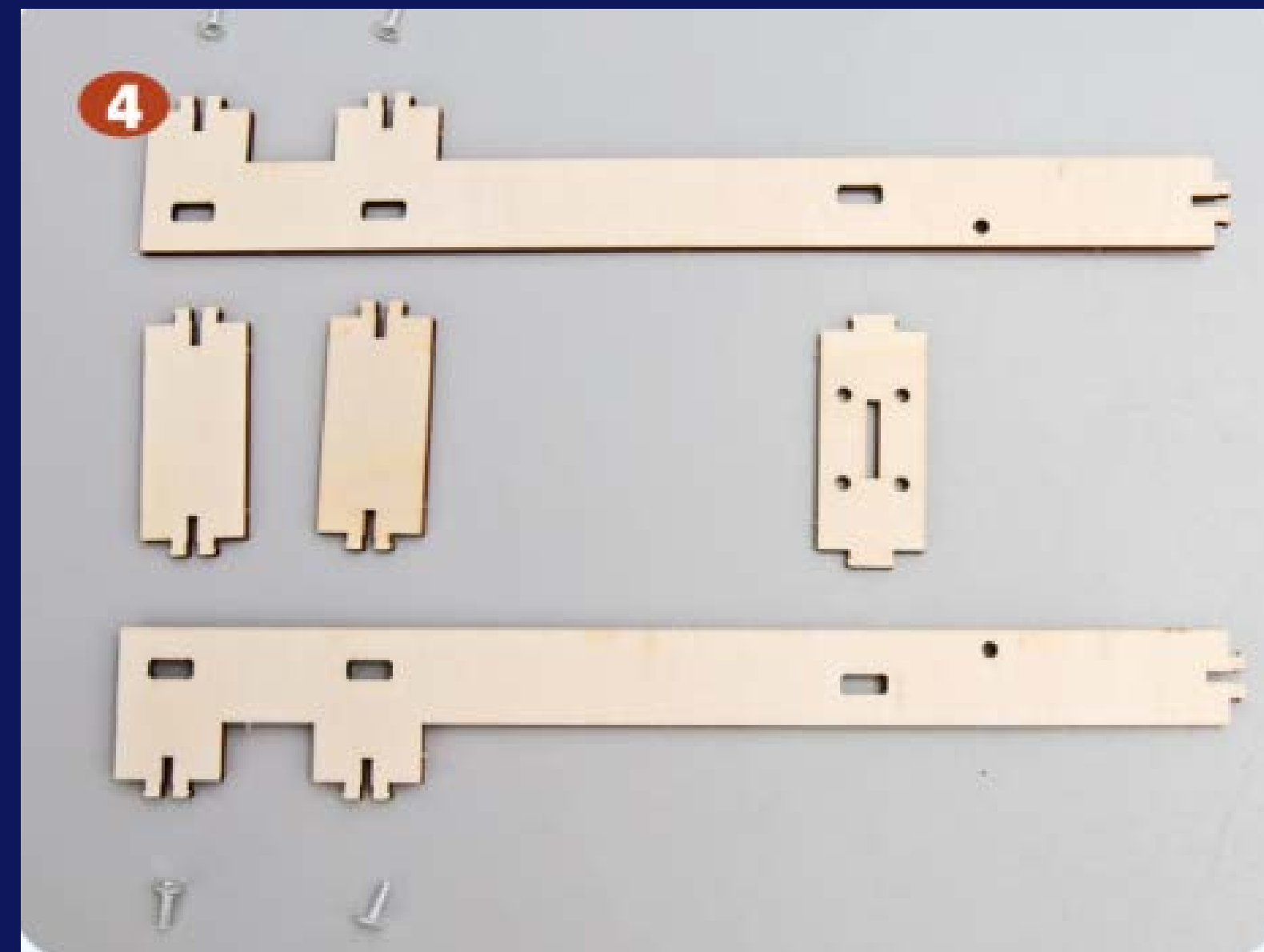


Prepare the wooden parts shown, a 2.5 ml syringe, and four 7 mm screws.

## 实验步骤

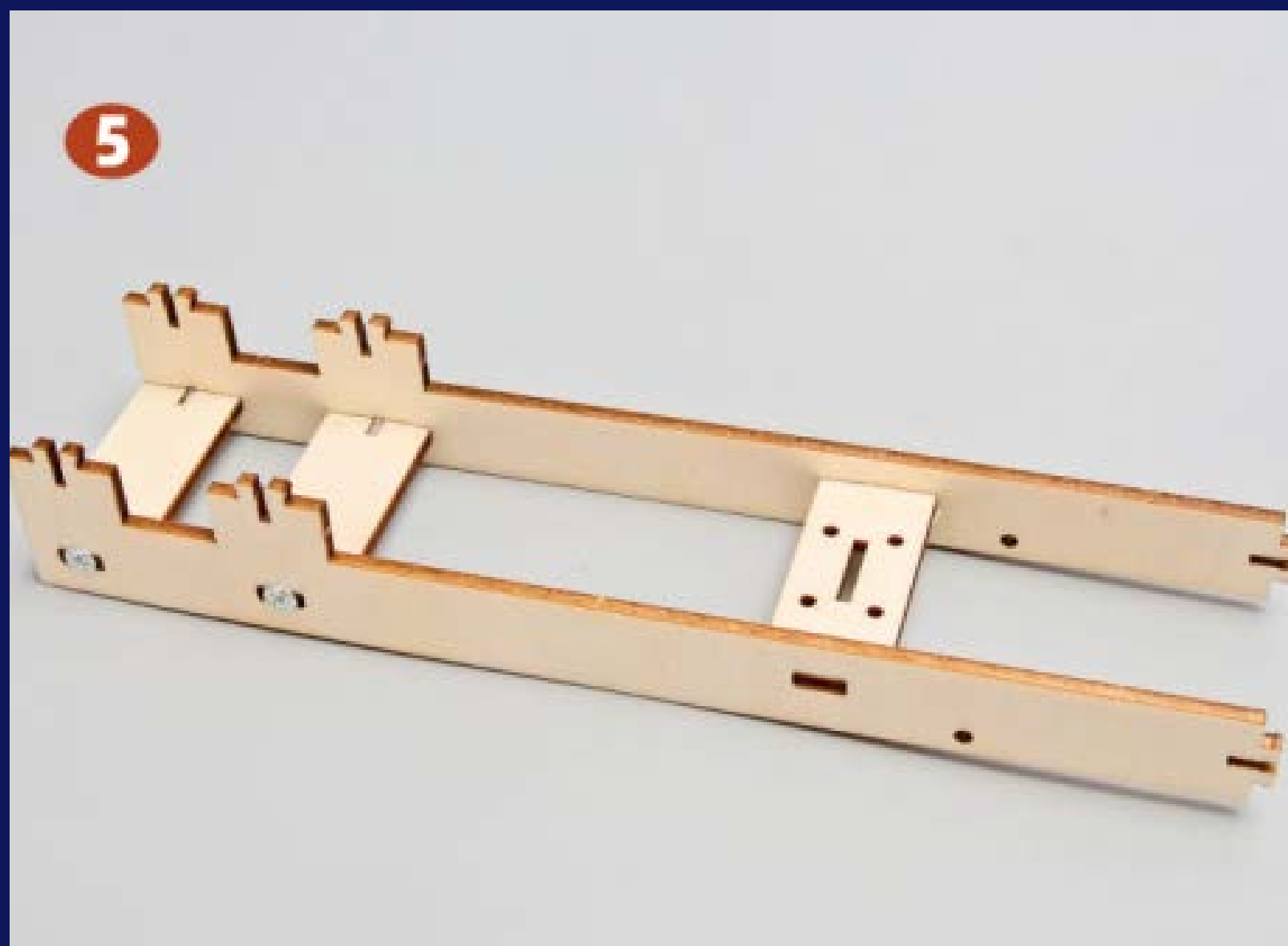
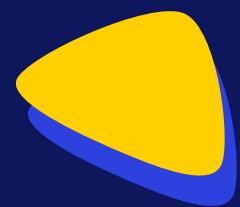


Assemble and tighten with 7 mm screws.

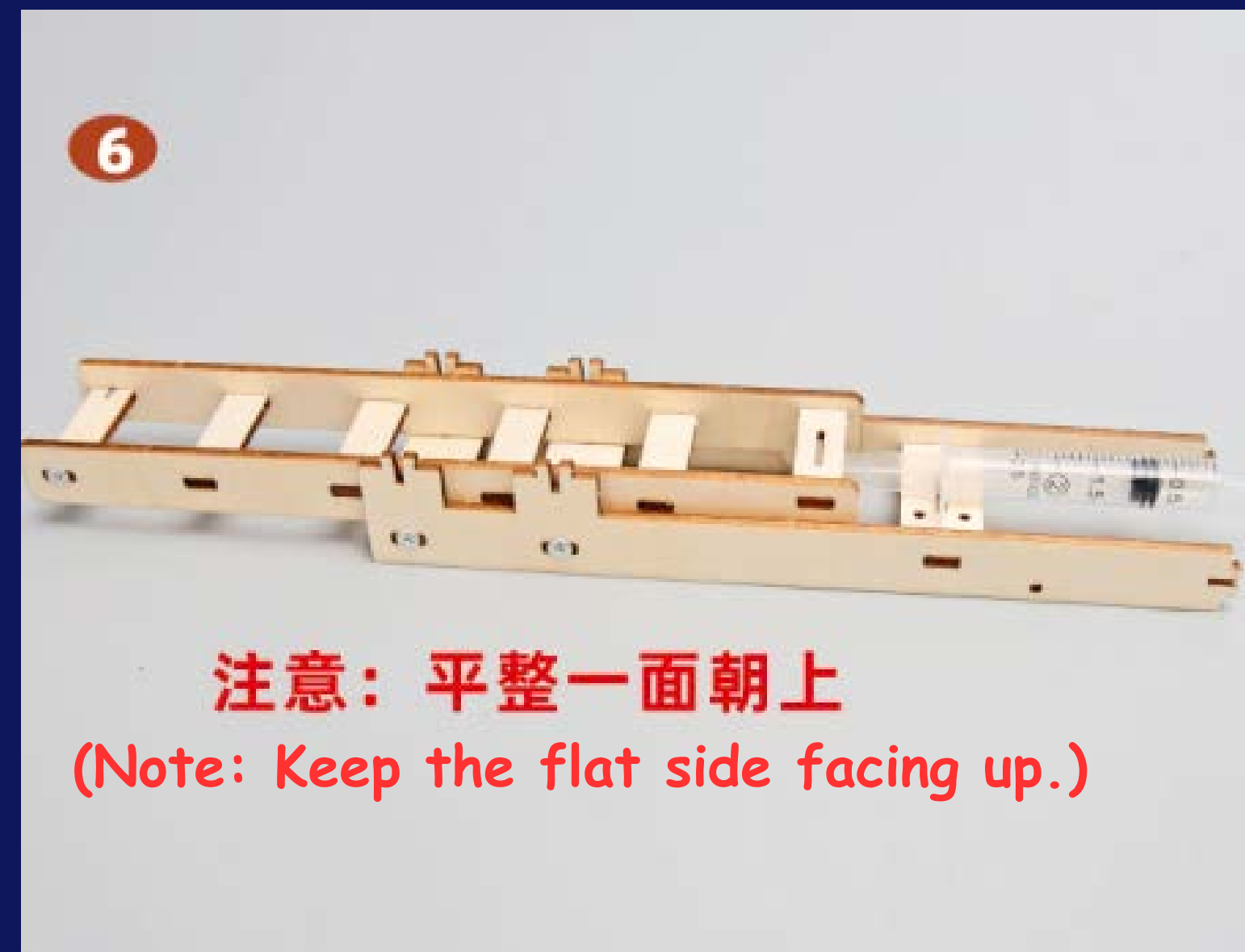


Prepare the parts and four 7 mm screws.



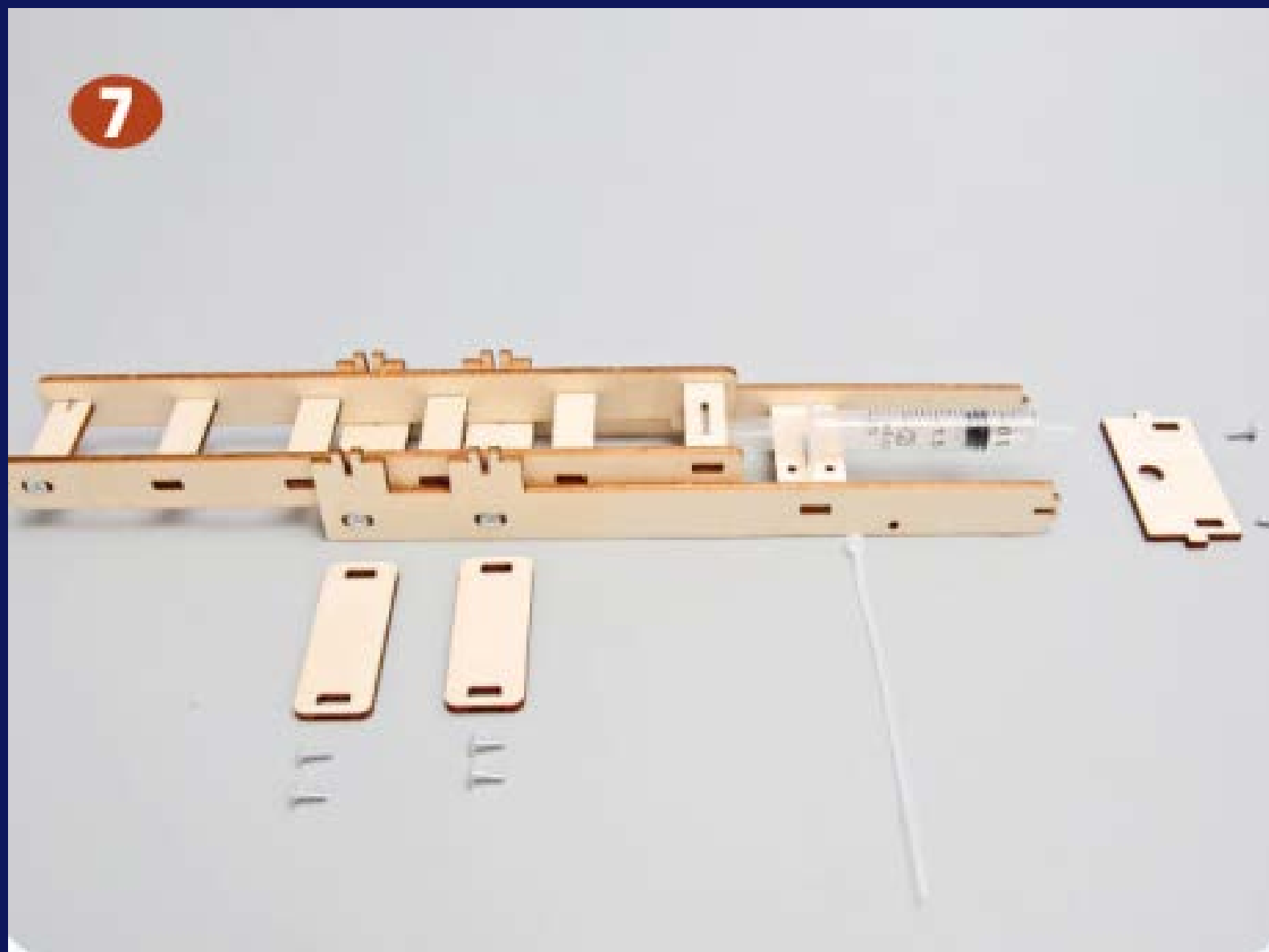


Tighten with 7 mm screws.

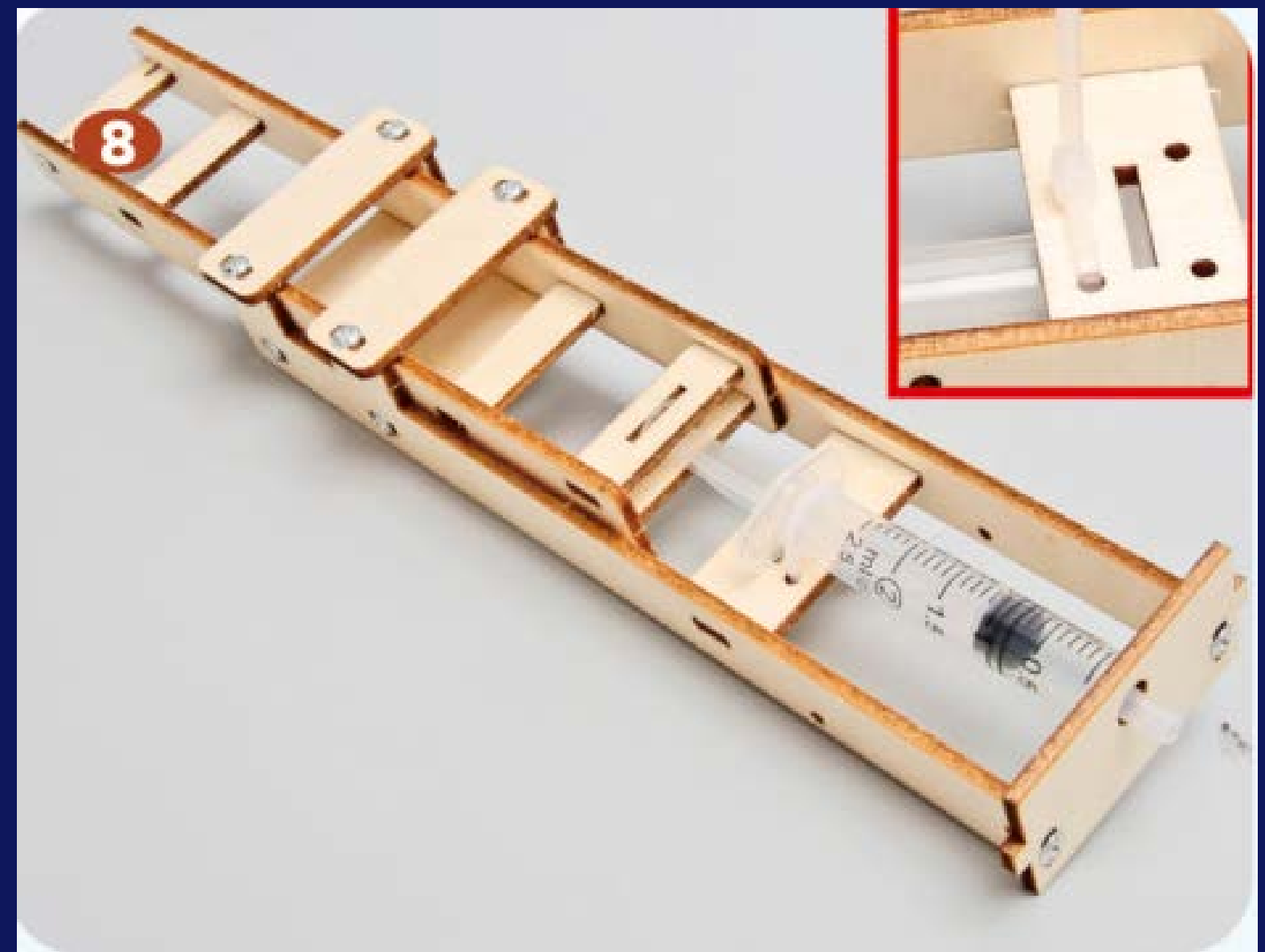


Place the previously assembled parts  
inside the structure.

## 实验步骤

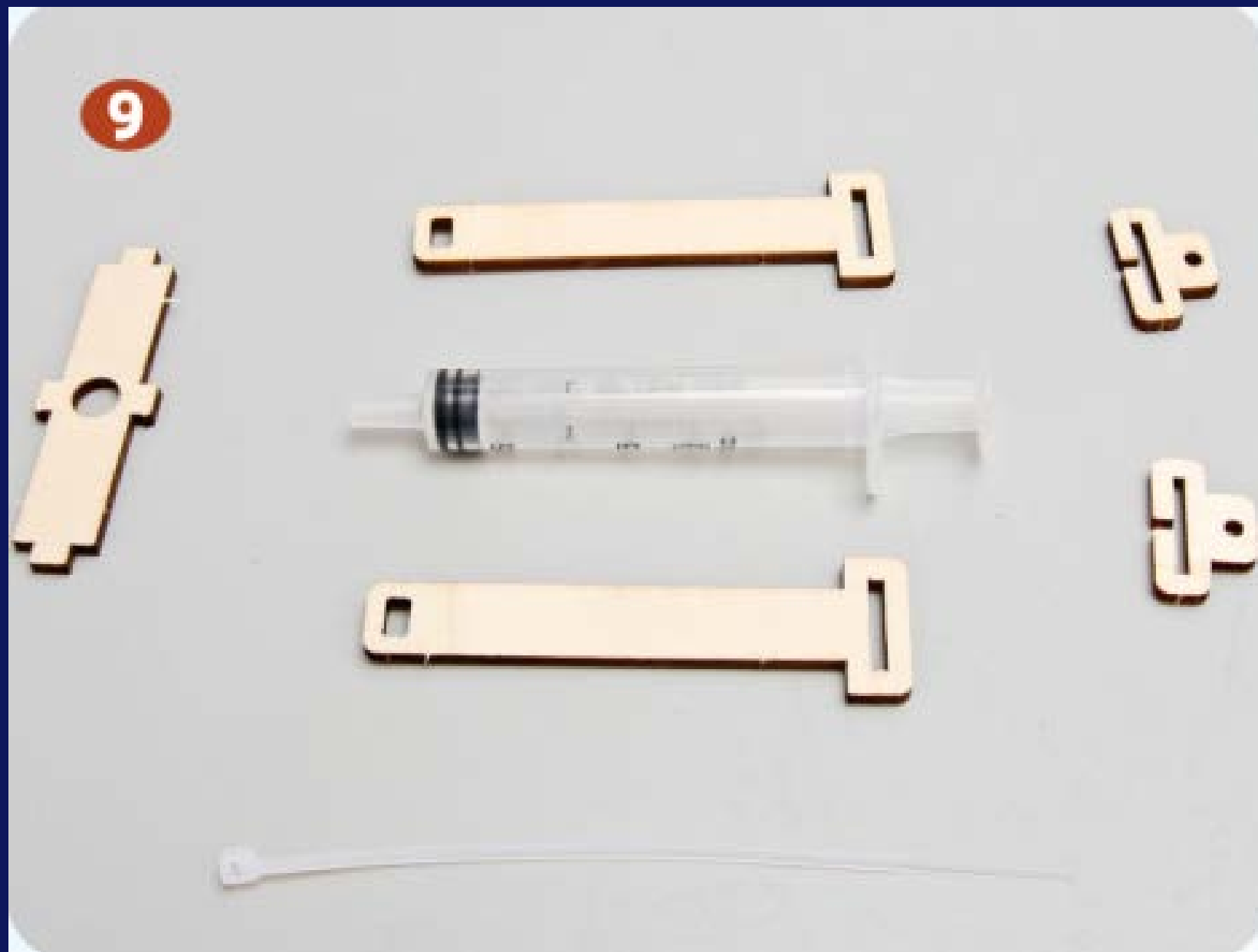


Prepare the wooden parts, four 7 mm screws, and cable ties.

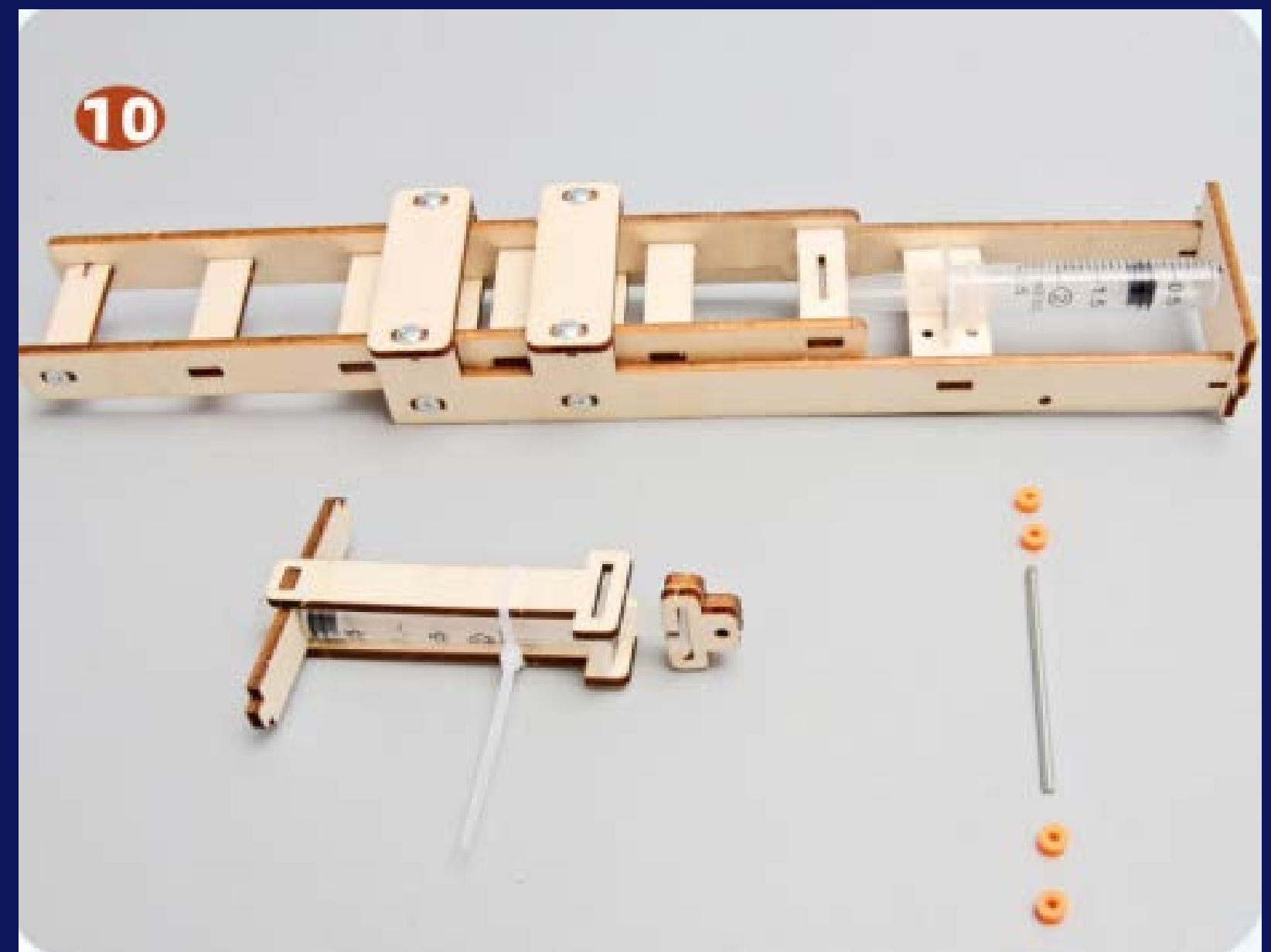


Assemble and tighten the screws, then cut off the excess cable tie ends.

## 实验步骤



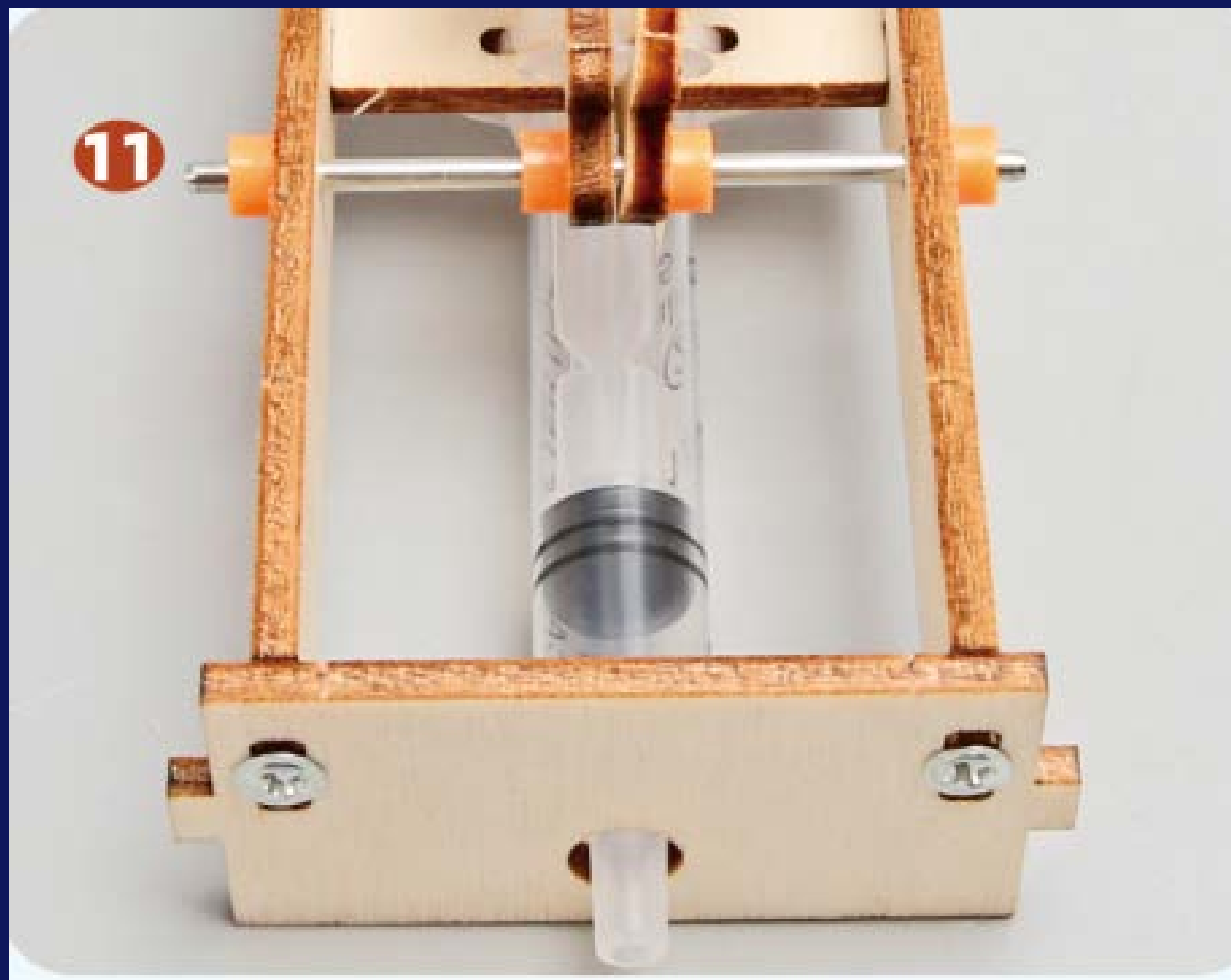
Prepare wooden parts, cable ties, and a 2.5 ml syringe.



Assemble as shown, then prepare a 50 mm shaft and four rubber ring.



## 实验步骤

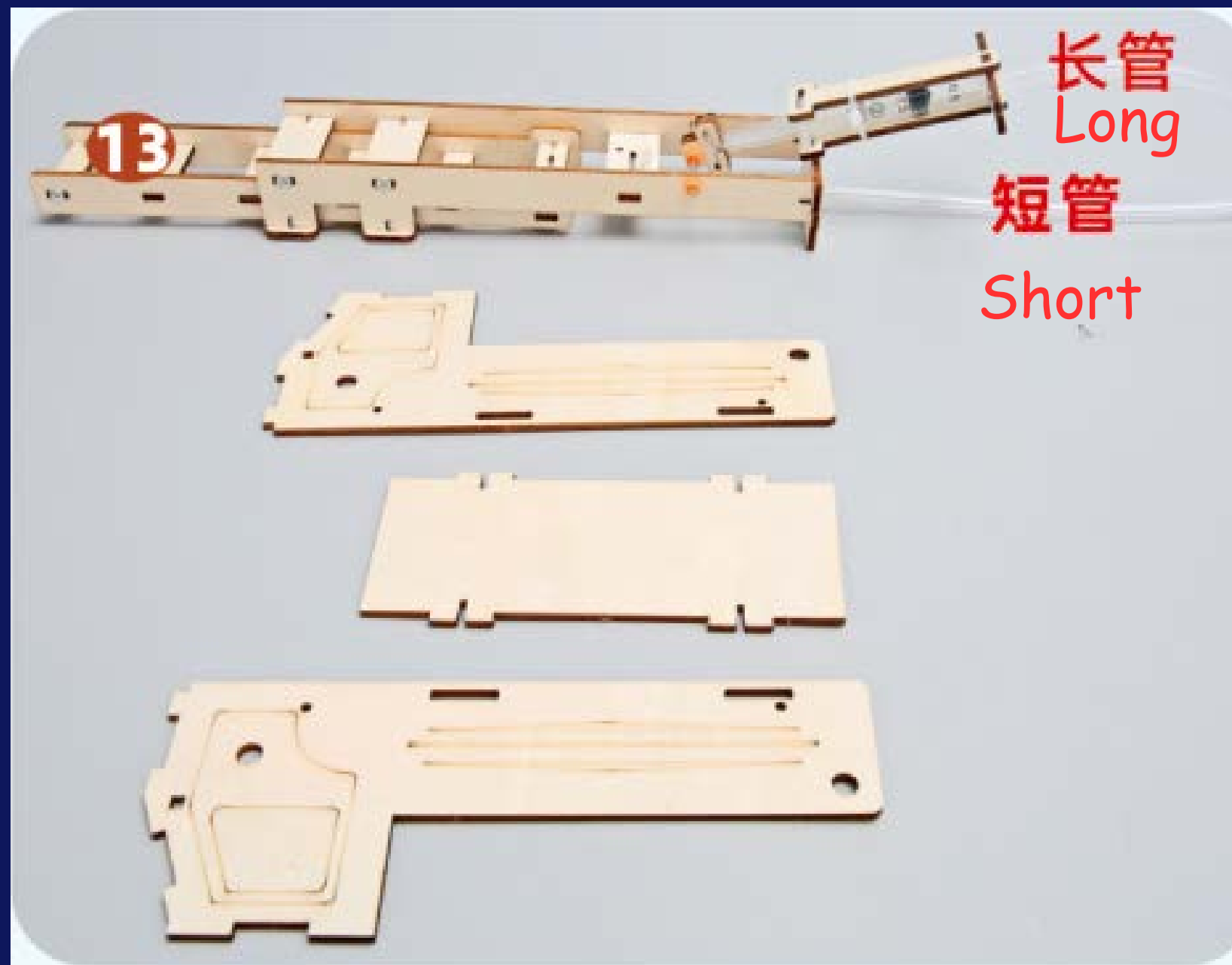


Assemble in order.



Prepare two soft tubes and two 5 ml syringes as shown.

## 实验步骤

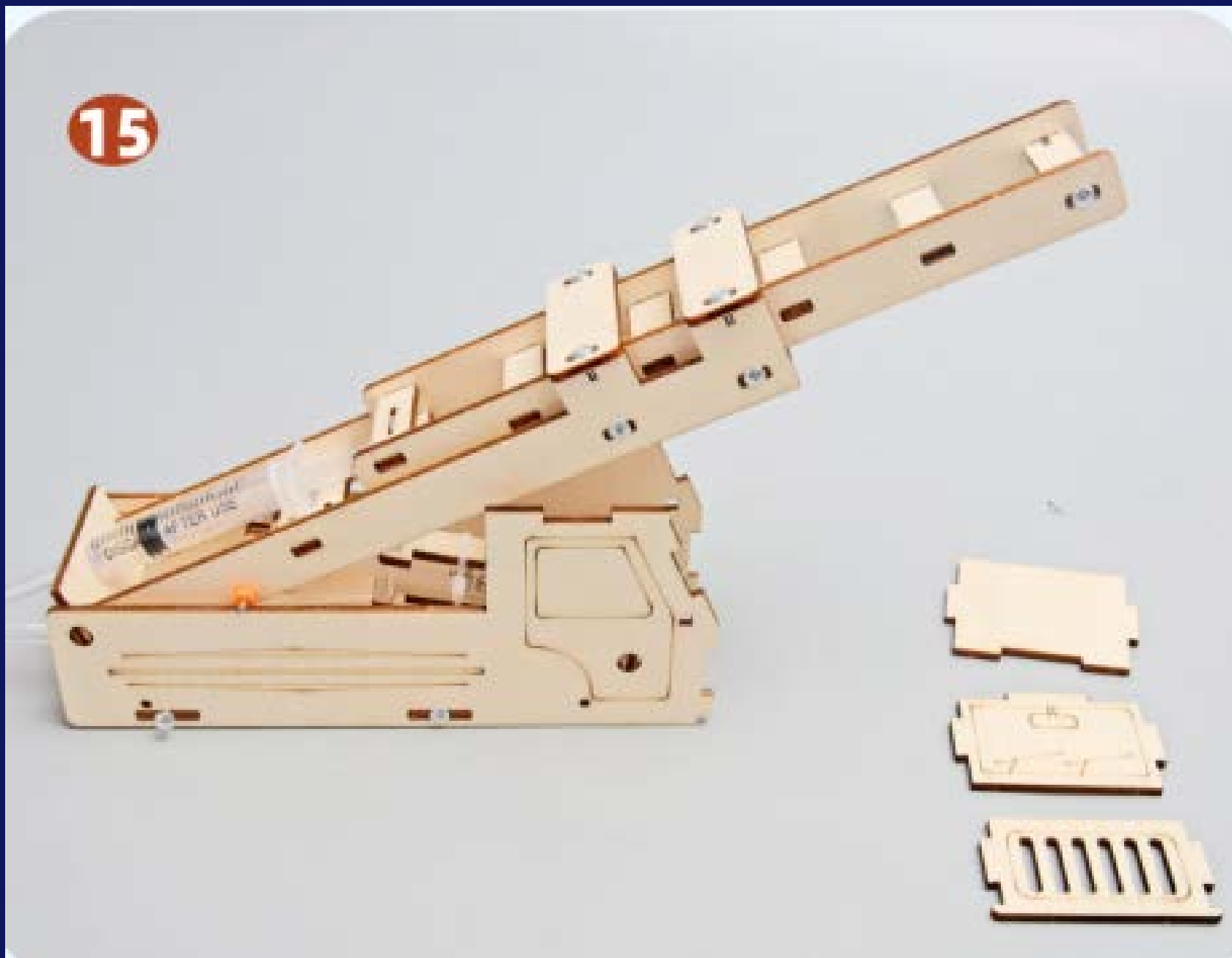


Connect the soft tubes and syringes, then prepare the wooden parts shown.



Assemble as shown and prepare four 7 mm screws.

## 实验步骤



Install the side panels and tighten the screws.



Assemble as shown.  
Prepare the parts shown, two 70 mm shaft,  
and four wheels.



## 实验步骤



Install the wheels and attach the two side mirrors.



Assembly Complete!

## Science Knowledge

### Fire Ladder Truck

The truck is equipped with a hydraulic telescopic ladder.

Using the principle of liquid pressure, it can lift and rotate the rescue platform and fire-fighting equipment to extinguish fires and rescue trapped people.

It is suitable for fighting fires in high-rise buildings.

