



# Bluetooth Speaker

Let children experience it themselves.

## Experiment Objective

1. Understand the basic knowledge of speakers.
2. Learn to assemble a Bluetooth speaker model.
3. Inspire children's interest in learning through scientific experiments and cultivate their scientific thinking.





# Introduction

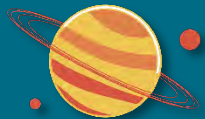
These children are performing on stage, but their voices are too soft.  
What do we need to make the sound louder?







**Answer:**  
Speaker and  
Microphone



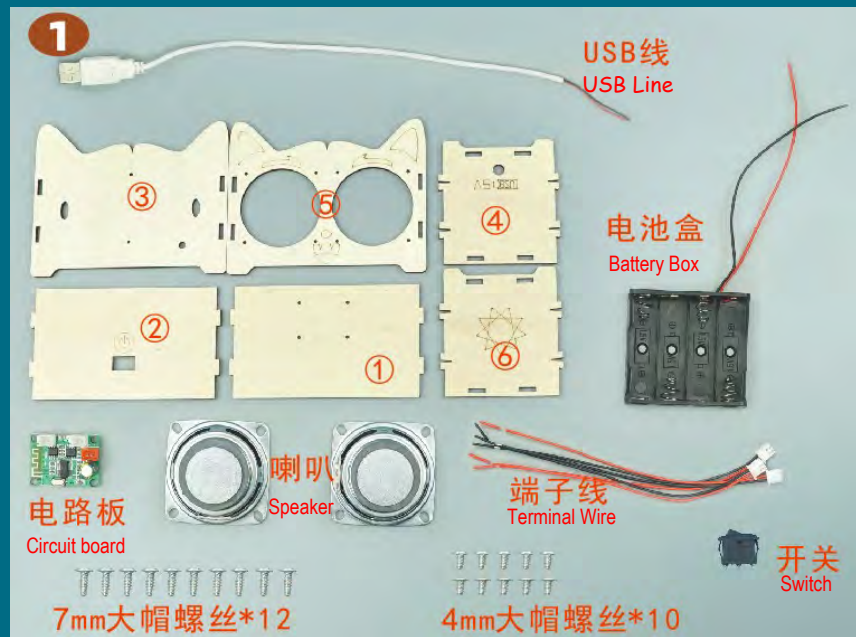
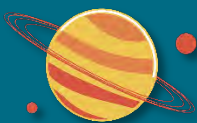
In this lesson, let's  
make a fun and  
amazing Bluetooth  
speaker!



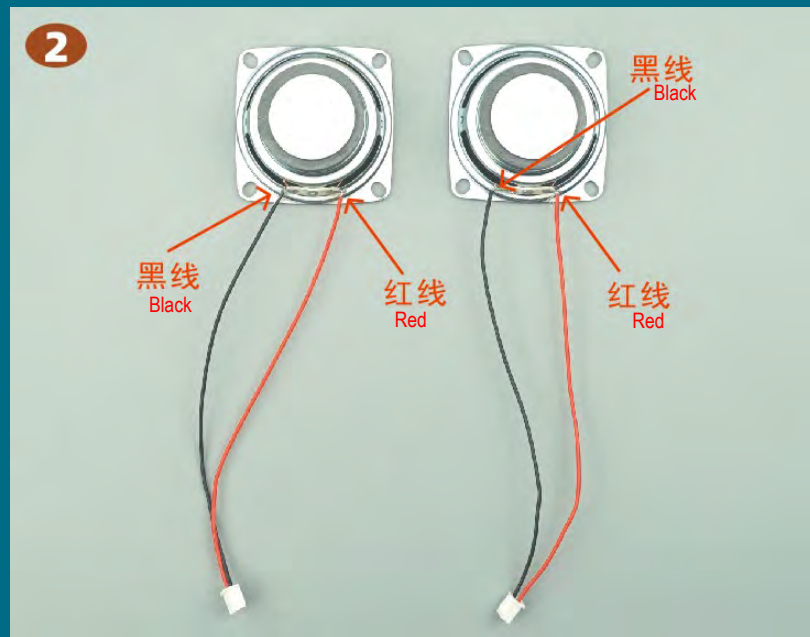
# Experiment Steps

Let's begin!

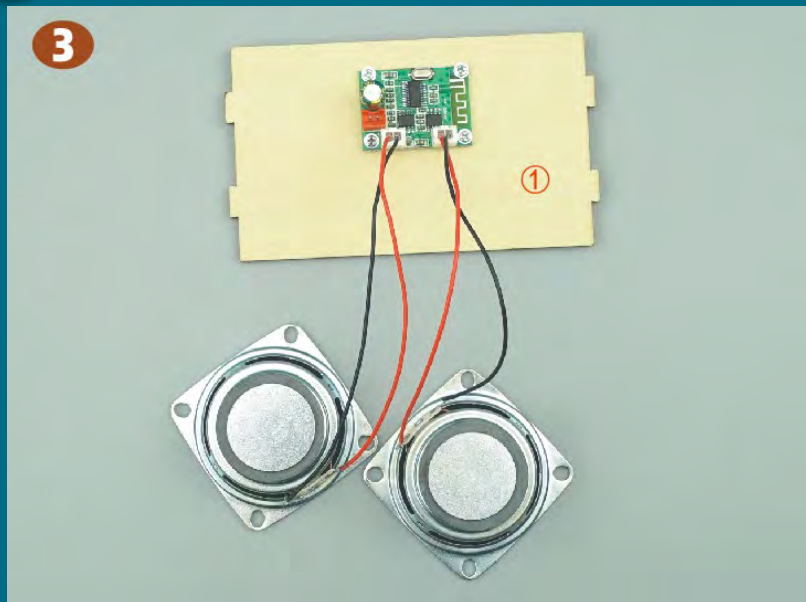
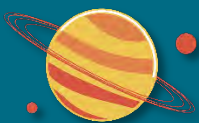




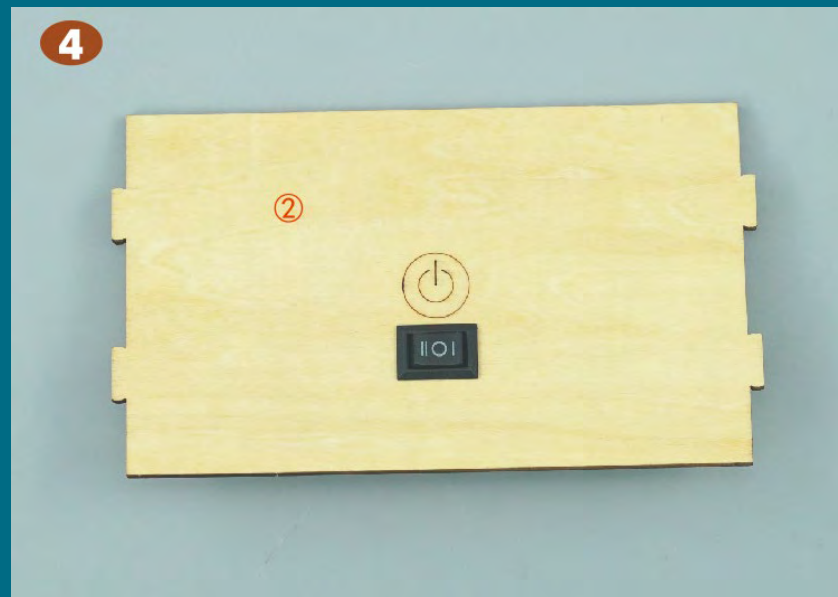
## Experiment Materials



Connect the terminal wires to the speakers as shown.

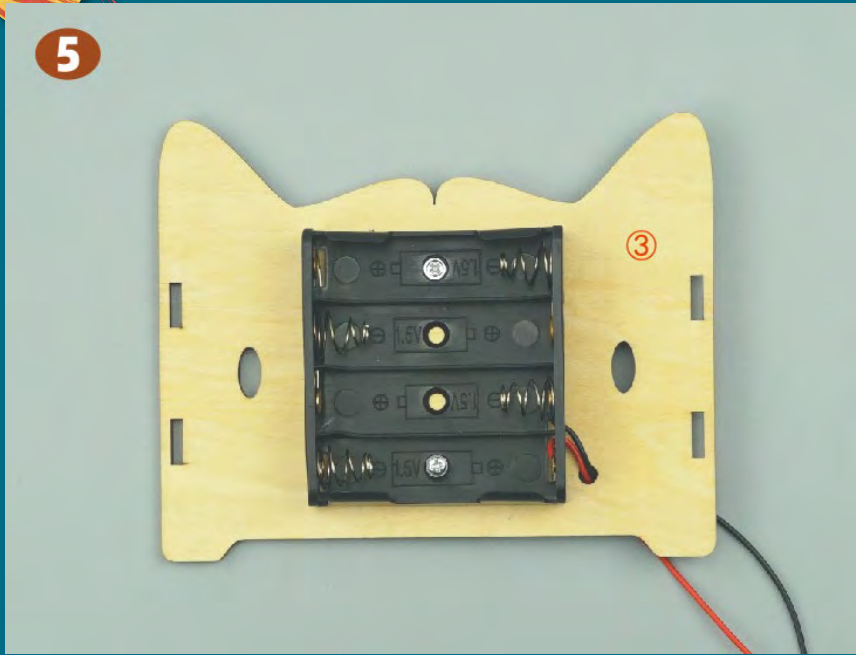


Use 7mm screws to fix the circuit board onto Board 1, and insert the terminal plugs into the circuit board as shown.



Insert the switch into Board 2.

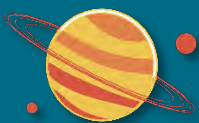




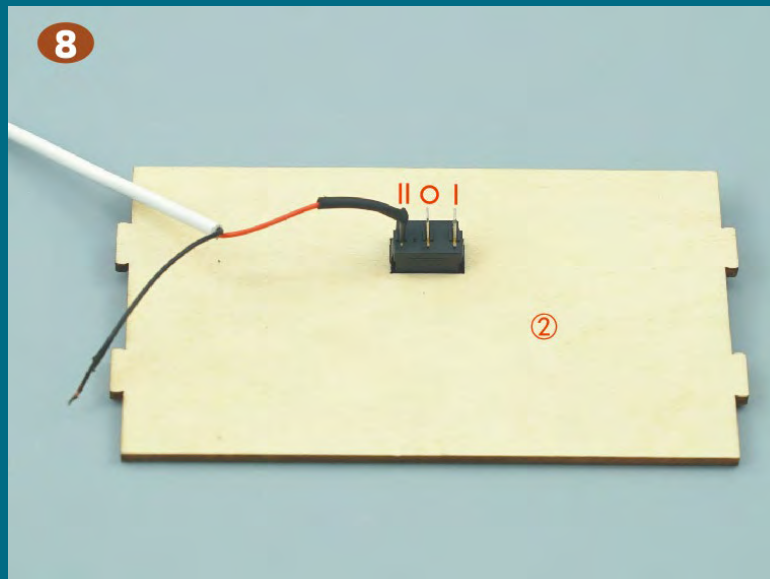
Use 4mm screws to fix the battery box onto Board 3, and pass the battery wires through Board 3.



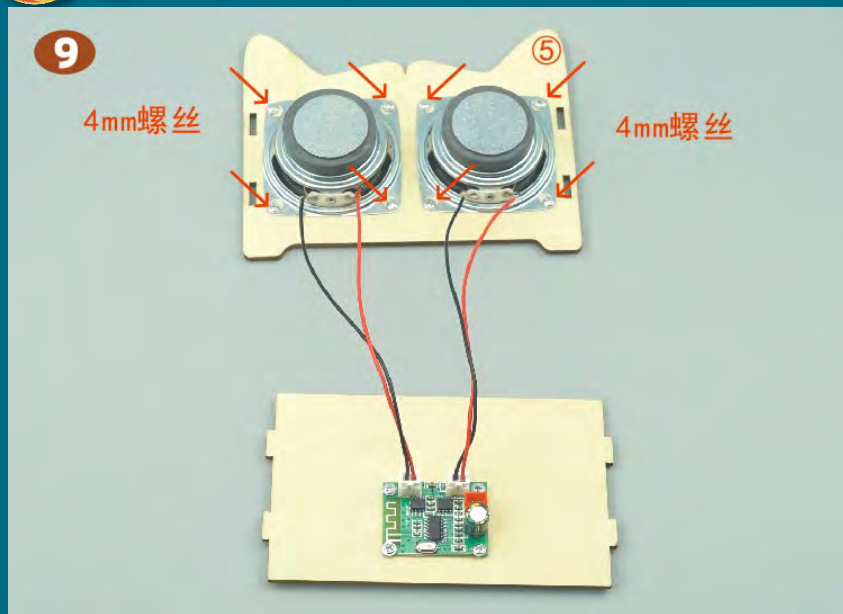
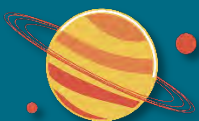
Pass the USB cable through Board 4.



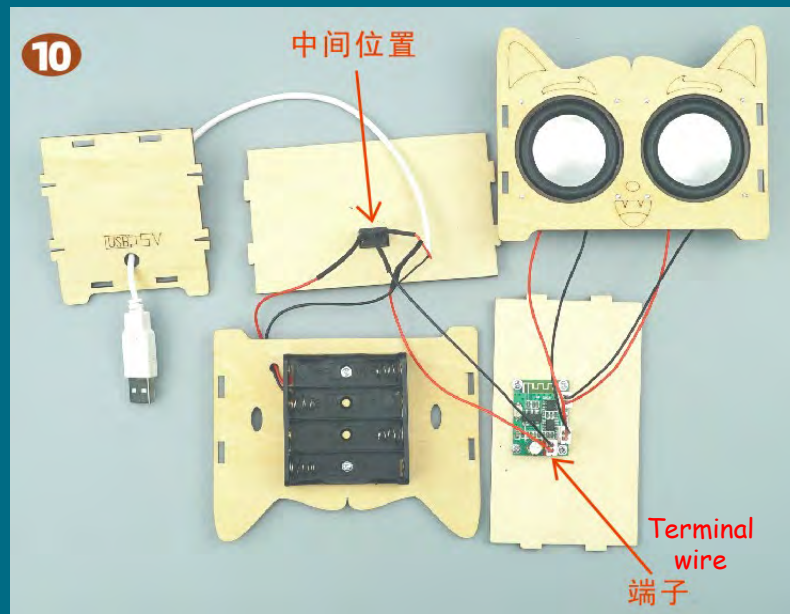
Insert the red wire of the USB cable through the heat shrink tube.



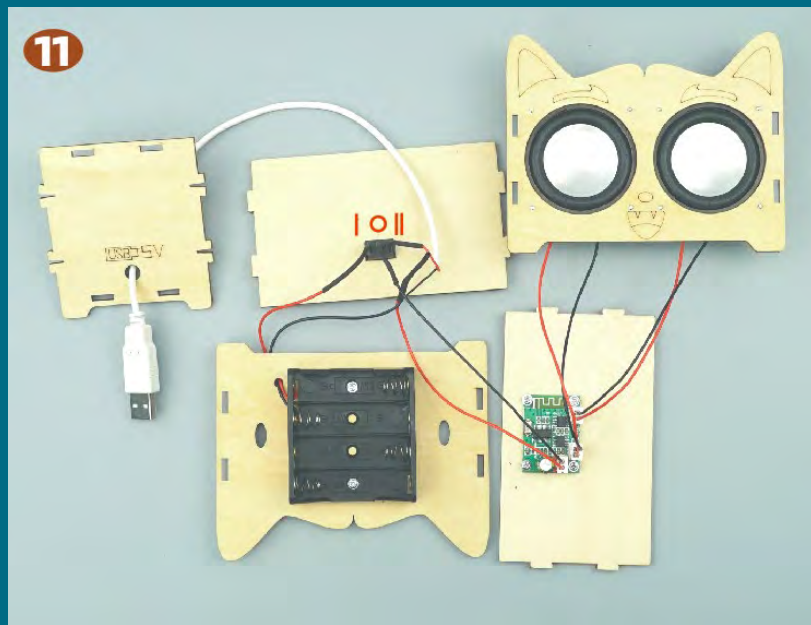
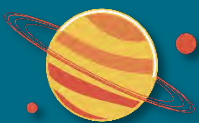
Then connect the red wire of the USB cable to the "II" position of the switch.



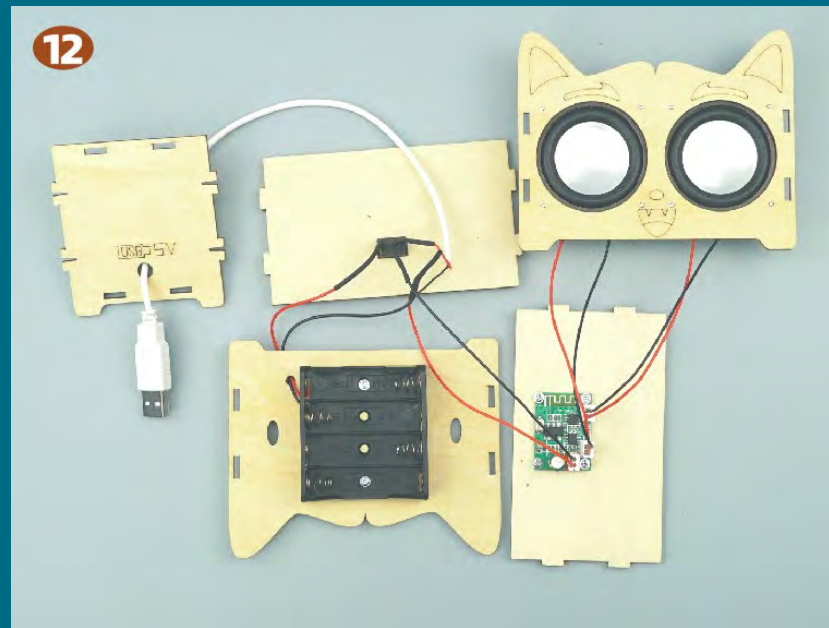
Use 4mm screws to fix the speakers onto Board 5.



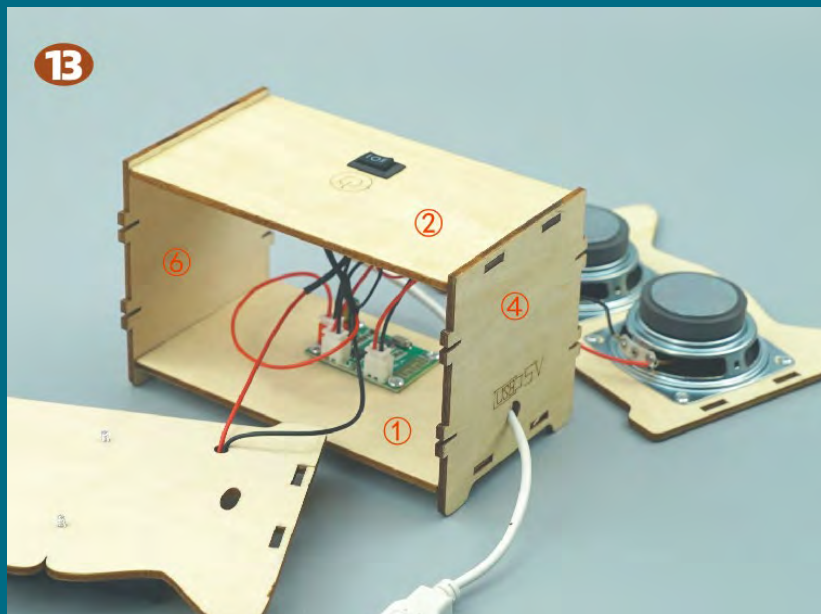
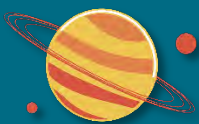
Insert the other terminal wire into the circuit board, and connect the black wire of the terminal to the middle position of the switch.



Secure boards No. 1 and 2,  
and boards No. 4 and 6.



Fix Boards 5 and 3 to Boards 6  
and 4.



Use 6mm screws to fix Board 1 onto the four soft square columns.

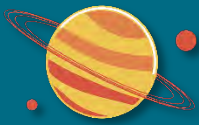


Insert the LED bulb into the terminal — installation complete!



# Knowledge Principle:





Bluetooth technology is a global open standard for wireless data and voice communication.

It is based on low-cost, short-distance wireless connections, creating a communication environment for fixed and mobile devices through a special short-range wireless technology.