Learning Series

Clock



This is a building-block programming robotics kit. The kit is equipped with various sensors such as sound sensitivity, color, touch, photoelectric, lantern, ultrasonic, camera and a wealth of building blocks. Students can use their imagination to build a variety of building block robots, and use graphical programming software to program the robot and experience the joy of hands-on creation.

Learning Target

01

Knowledge goal

Learn to use it.

02

Ability goal

Familiar with the concept of the program, master the centralized sequence of sentence structure.

03

Emotional attitudes and values

Understand the structure of the program and have a macro understanding of the program.

Learning Target

01

Learning focus

Master the basic operations of the buzzer module and music import.

02

Learning difficulties

Flexible use of several combination cases of music import.

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Course Introduction



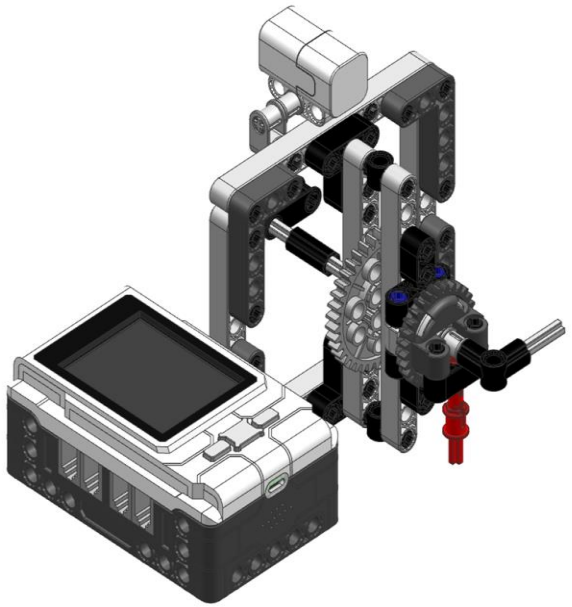
Course Introduction



What function does the Clock need?

In the first few lessons, we learned a lot about the regular knowledge of music. The understanding of music files has not only stopped on the switch music and buzzer. Then the class teacher arranged a task for everyone, using the knowledge we have learned, and designing a robot according to the characteristics of the Clock.

Course Introduction



Clock

Know about the music box

The robot in this lesson is called "Sound Box", which is mainly played by the built-in music file -mp3 file in RCU.

And not only can you put a song, you can also place more than one song.

Let's learn together.

Teaching New Knowledge



Teaching New Knowledge

Clock

1. type: use type

2. direction: prompt

3. structure: pointer, reminder way

4. appearance : no limit



Teaching New Knowledge

Equipment matching:

1. electronic components:

RCU, can increase the lanterns

2. appearance: no emphasis

3. other: RCU because of the larger size,

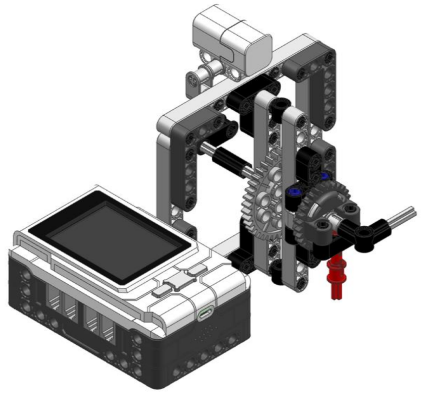
see how to combine the model is better



Task Practice



Task Practice



Assembly requirements

1 stable structure

2 focus is right

3 shape match

Checkin g Effect



Test Effect



Review the learning content and deepen your impression.

Question 1

What is the name of the robot made today?

Question 2

What hardware does the robot use today?

Question 3

What type of Clock robot are you designing?

Test Effect



Homework

Organize the divergent imagination and explain the presentation according to your own works, such as the name of the work, the source of the inspiration, what is the most satisfactory place for the design, and the mutual comments between the works!

Thank you for watching

BE STEM READY

