Learning Series

Responder



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 lantern module and the time module.

02

Learning difficulties

Flexible use of several combined cases of action and time modules.

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Course Introduction



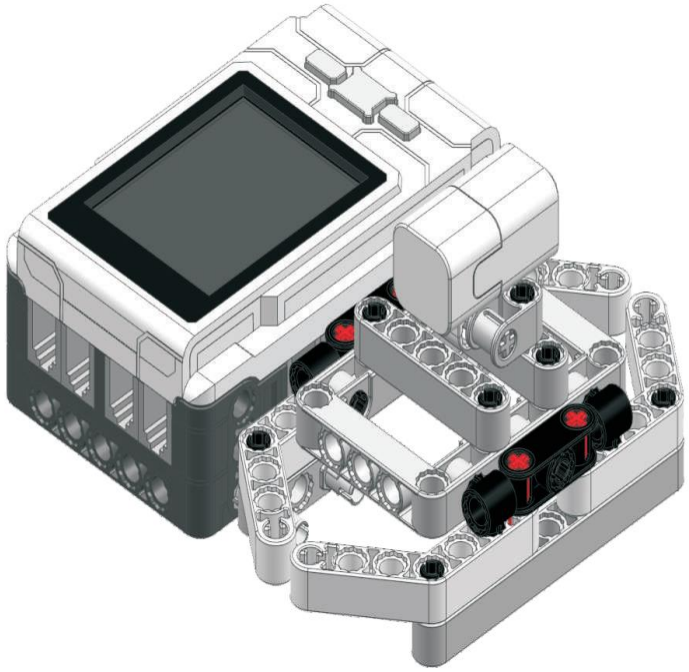
Course Introduction



Is this picture useful for lanterns?

In the first few lessons, we learned a lot about the conventional knowledge of lanterns. The understanding of lanterns has not stopped just above the switch lights. That class teacher assigned a task to everyone, using the knowledge we have learned, design a robot according to the characteristics of the lantern.

Course Introduction



Responder

Know about the answering machine

This robot is designed to highlight some of the design, can be based on the entity's prompt device for reference, after the completion of the combination of the characteristics of the responder for programming and debugging, you come to challenge a try!

Teaching New Knowledge



Teaching New Knowledge

Respon
der

1. Type: use type

2. Direction: prompt

3. Structure: None

4. Appearance: no limit



Teaching New Knowledge

Equipment matching:

1. Electronic components: RCU, lantern

2. Appearance: highlights of the lanterns

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 materials are used in today's robots?

Question 3 What type of robot are you designing?

Test Effect



Homework

Demonstrate presentations based on your own work, such as the name of the work, the source of the inspiration, what is the most satisfying part of the design, and the mutual evaluation of the works.

Thank you for watching!

BE STEM READY

