



Section 7 《Little Guardian B》





Curriculum objectives

Knowledge and skill

- 1.Learn about the usage of double lamps of mainboard, and learn further about the usage of matrix screen;
- 2.Complete the procedure task that Little Guardian get intocavern to explore;

Process and methods

1.Exercise students' ability of thinking problem and solving problem by task analysing;

Emotional attitude and values

1.Train students' attitude for exploring positively and living optimistically in lessons.

Curriculum introduction





The entrance of cavern that have energy fluctuation only allow Little Guardian to get in, it adds level of difficult of detection task, because not only we don't know the condition in cavern, but also it is dark in cavern.

Curriculum introduction





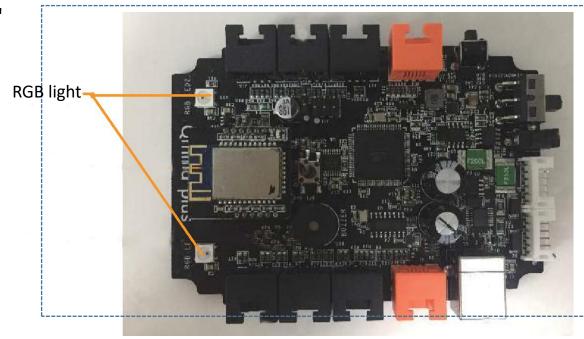
Facing dark environment, searchlight, which has lighting function, reveals so important.

Qoopers, which covered all functions, also have light device to reply tasks in different environment.



It installed RGB light on left and right of mainboard of Qoopers' members.

It can send clear and bright-coloured colourful light with mixed by RGB and LED's red, green, blue light. When there is signal get in, RGB and LED light board will light needed coloured light on the basis of command.



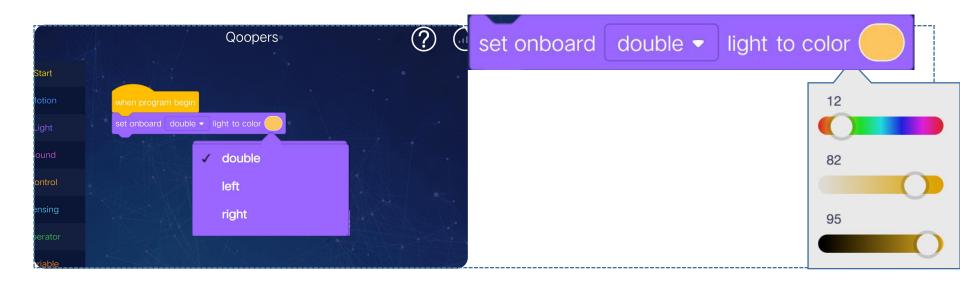


In programming area, choose set onboard double light to color , which is in the light module. drag it into programming area, and set color of RGB light.





Connect set onboard double ▼ light to color and icon of when program begin", then you can set which lamp light and the color of double lamp, left lamp, right lamp of mainboard RGB lamp.





The light color can be setted by inputting red, green, blue, the number among 0-255, because main control board RGB and LED light are mixed by red, green, blue.







We learned matrix screen expression display at before lessons, actually, matrix screen also can reveal figures, letters, and symbols etc. except expression.



Programming



Task requirements: Little
Guardian need to light double lamps
after get into cavern for lighting;
After finishing detection task, turning
and returning, then matrix screen
count down from 3 to 1.







```
run forward ▼ at speed 45
wait 2 secs
set onboard double - light to color (
wait 2 secs
run turn left ▼ at speed 45
wait 1 secs
run forward ▼ at speed 45
wait 1 secs
show drawing port2 • draw ....
wait 1 secs
show drawing port2 ▼ draw 🚃 🔽
wait 1 secs
show drawing port2 + draw
run forward 

at speed 0
```

According to reference procedure, debugging speed and motion time of electrical machinery, let Little Guardian search information safely and return to outside of cavern.



Using remote control mode, control Little Guardian to get into cavern for detecting.





Summary and rethink



1. How many methods can be setted in the programming of RGB double lamps' color of main control board?

2.Talk about how many kinds of pattern are matrix screen of Qoopers reveal?

Copyright information



The copyright of this material belongs to our company. Unauthorized dissemination or plagiarism will be investigated and legal responsibility will be affixed. The company has the final right of interpretation.

Company: Roboblog Co., Ltd

Address: Room 208, Building B53, Zhongchuang IndustrialPark, Liuxian Avenue, Taoyuan Street,

Nanshan District of Shenzhen **E-mail**: hello@roboblog.com

Telephone: + 86-0755 -26926929

Website: http://www.roboblog.com