

Roboblog



Qoopers series course



Section 3

《The Dozer B》

Curriculum objectives

Knowledge and skill

1. Learn about primary programming of the dozer, wield to use forward and stop icon;
2. Complete programming task of the dozer;

Process and methods

1. Exercise students' thinking and logical thinking ability by procedure analysing and writing;

Emotional attitude and values

1. In lessons, improve students' self-confidence by finishing tasks.

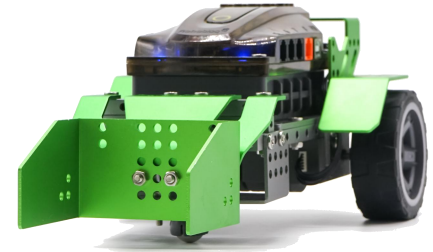


The task of the dozer is to push giant stone in the complex ground so that open a smooth road, and the bring Qoopers explore Metal Block planet.

Curriculum introduction

We know that if the dozer want to finish task, it need to command perform system's electrical machinery to turn by control system, that is to drive the dozer move by main control panel procedure.

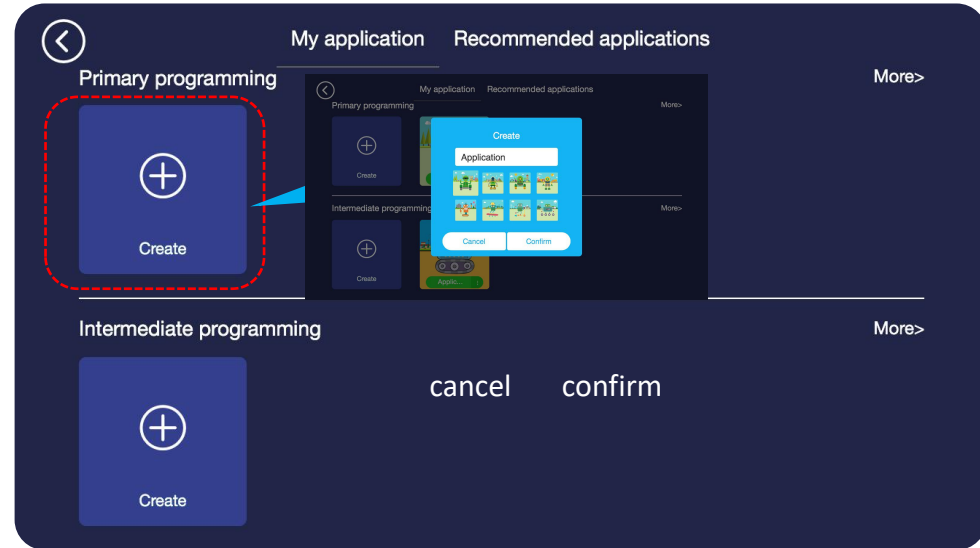
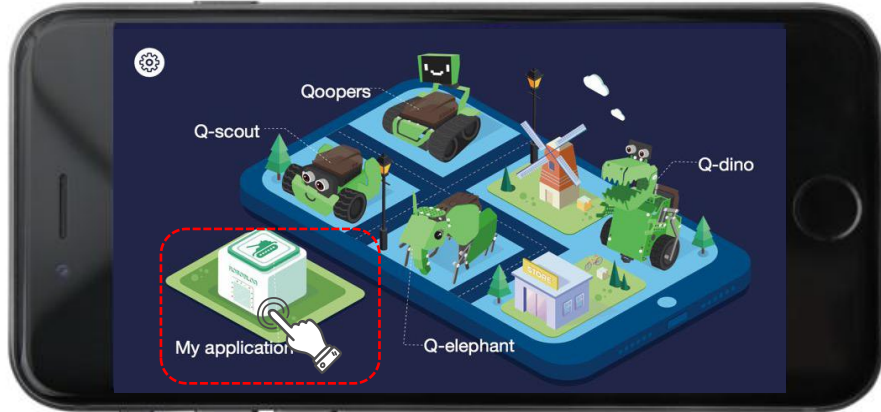
Therefore, procedure order reveals so important, then let us learn about programming of Qoopers.



Knowledge explanation

Learn about programming on mobile phone APP:

1. Open programming application of mobile phone;
2. Click on "my application" icon;
3. Choose "create application" in preliminary level programming, and named application.

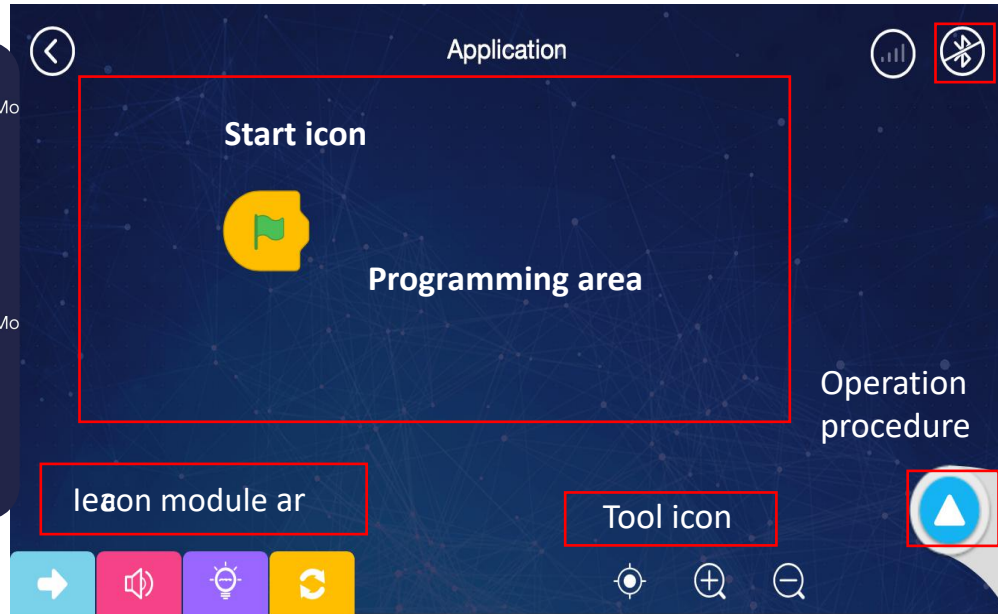
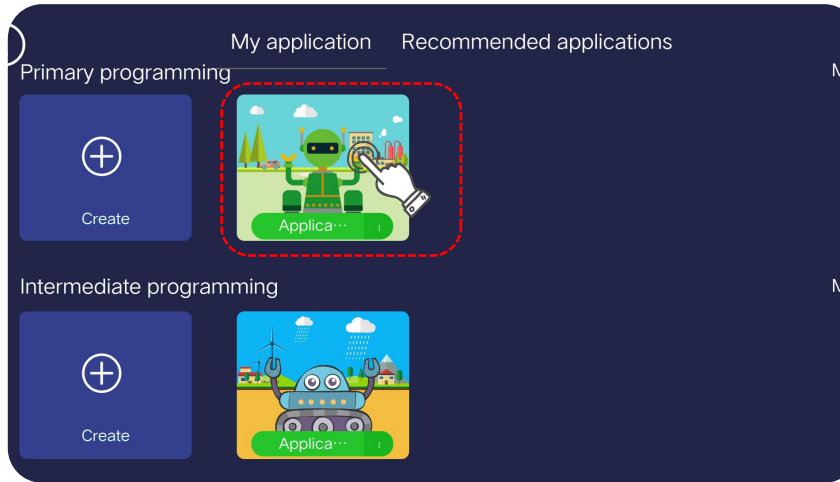


Knowledge explanation

Preliminary level programming interface:

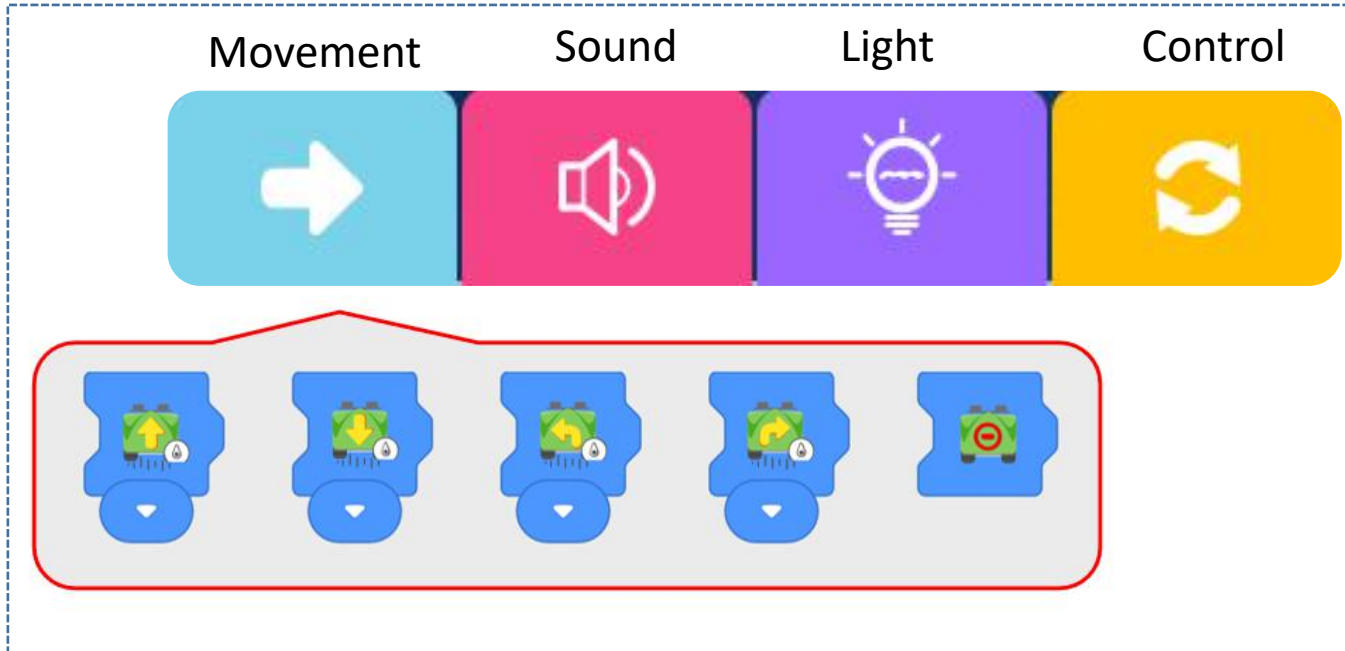
1. Click on icon that have created Qoopers;
2. Programming interface includes programming area, icon module area, bluetooth icon, operation icon, tool icon.

Bluetooth connection

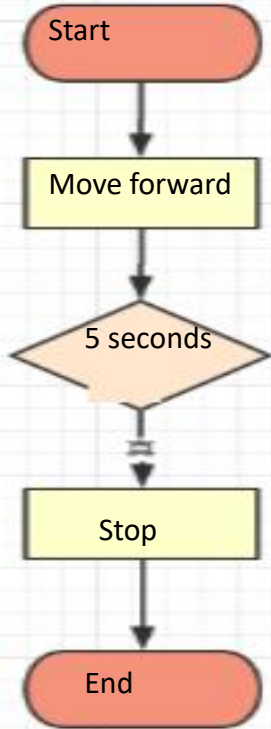


Knowledge explanation

In the icon module area, click on "movement icon", then exist concealed forward icon, retreat icon, left-turning icon, right-turning icon and stop icon.

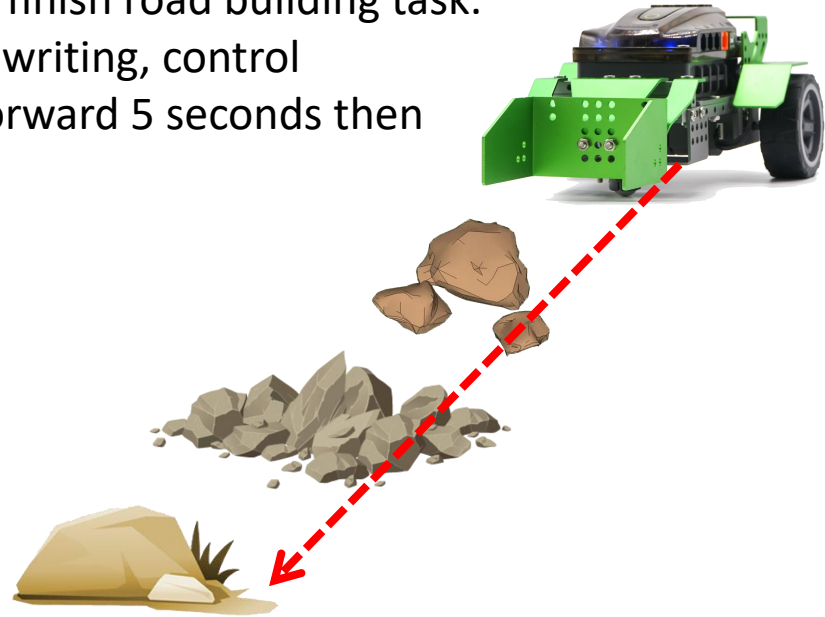


Task analysis



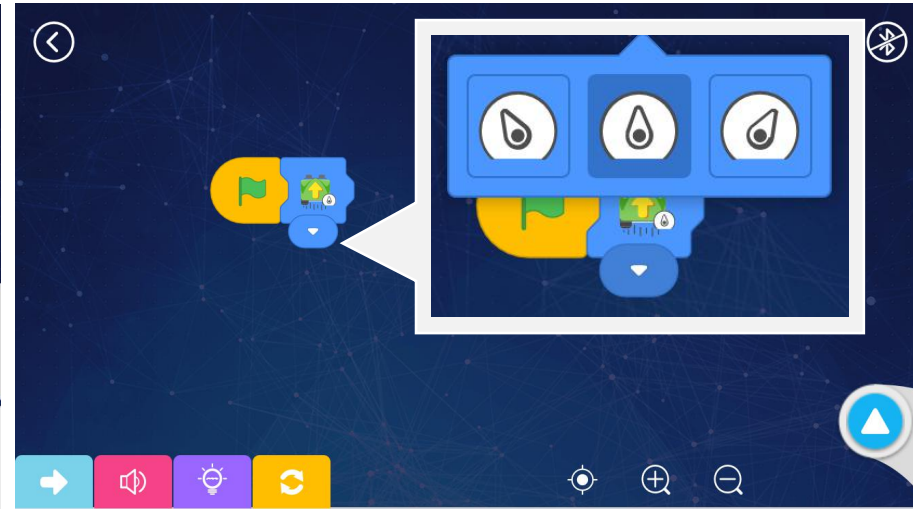
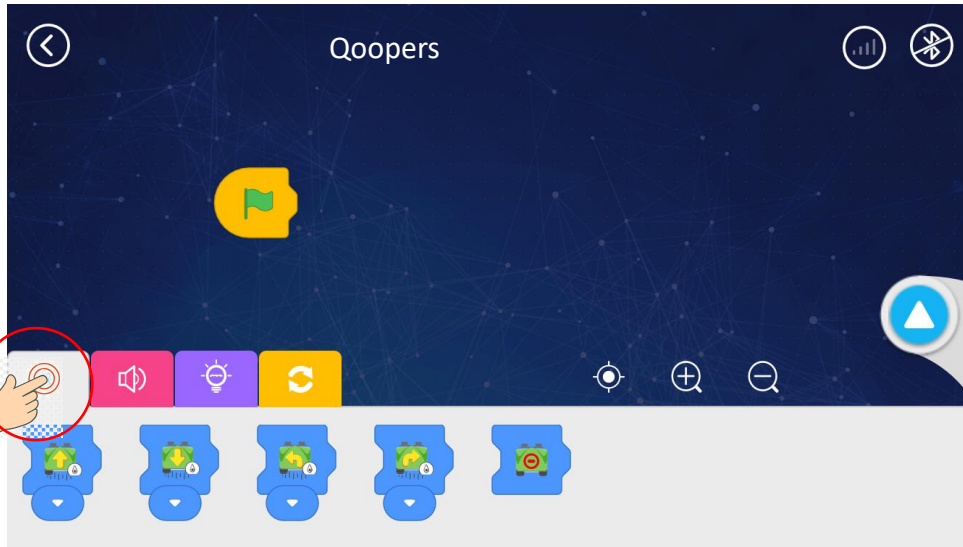
It need to control electrical machinery turning let pushdozer move forward and push giant stone with "U shape" device if pushdozer want to finish road building task.

In the procedure writing, control pushdozer move forward 5 seconds then stop.



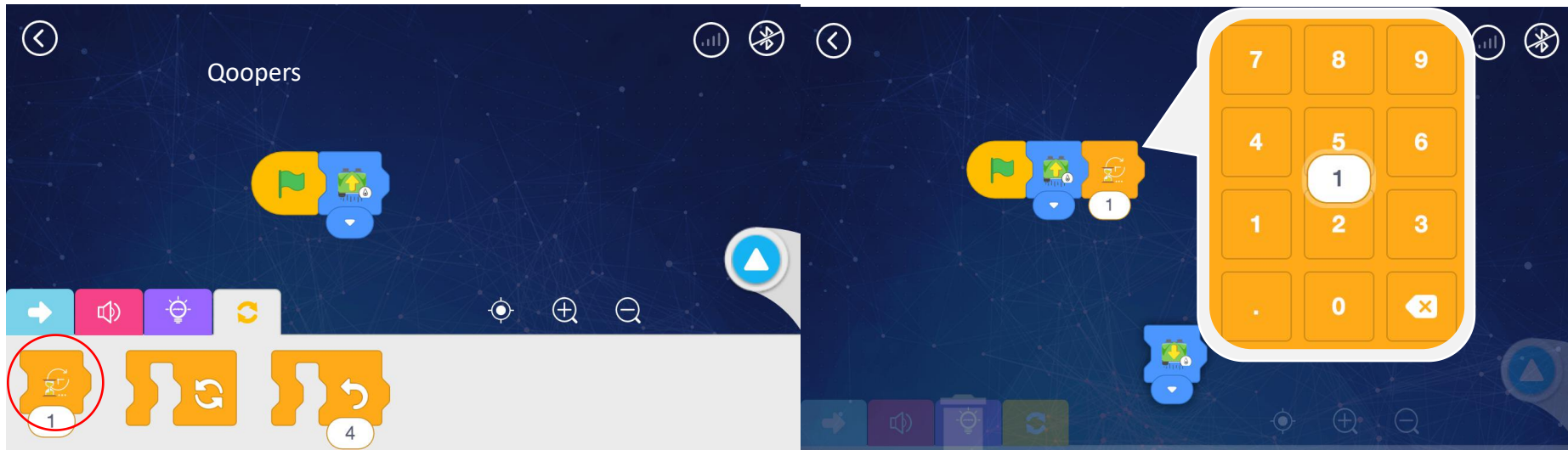
Programming

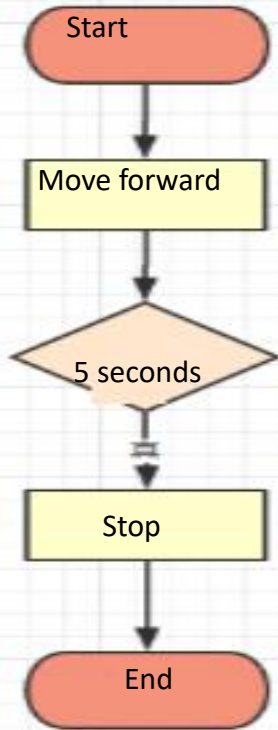
1. "Go straight" icon automatically connect with start icon after choose it. Click on triangle on the bottom of "go straight" icon, then you can set electrical machinery's turning speed into slow speed, medium speed and high speed.



2. Choose "wait time" icon in the control module, after connection, click on "wait time" icon figure 1 in procedure, then it can set time span, measured in seconds.

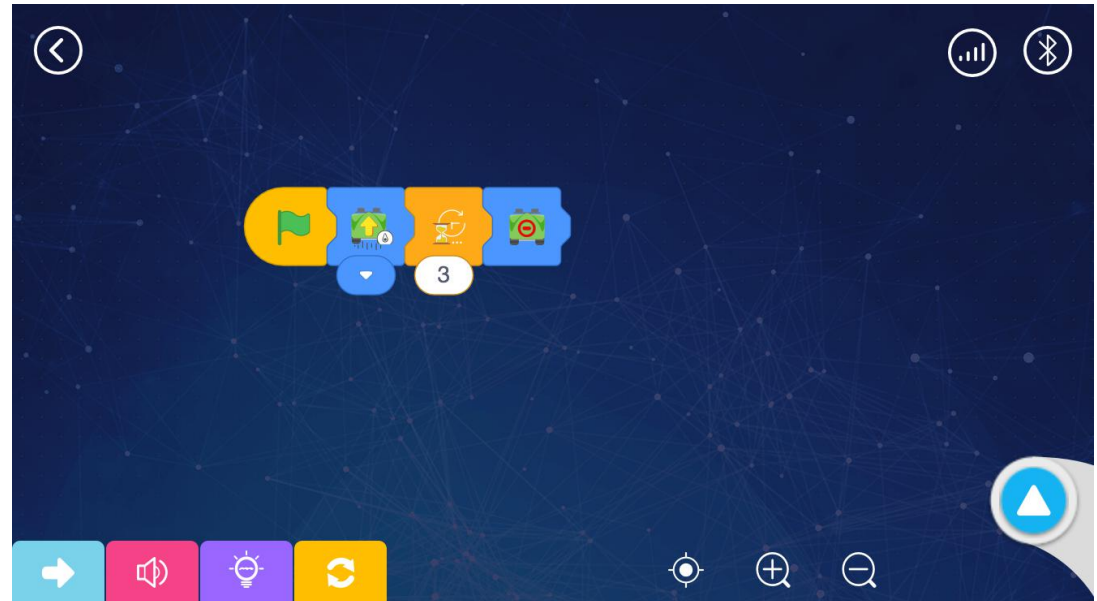
Qoopers





3. According to flow chart, write procedure that pushdozer move forward 5 seconds, then keep stopping.

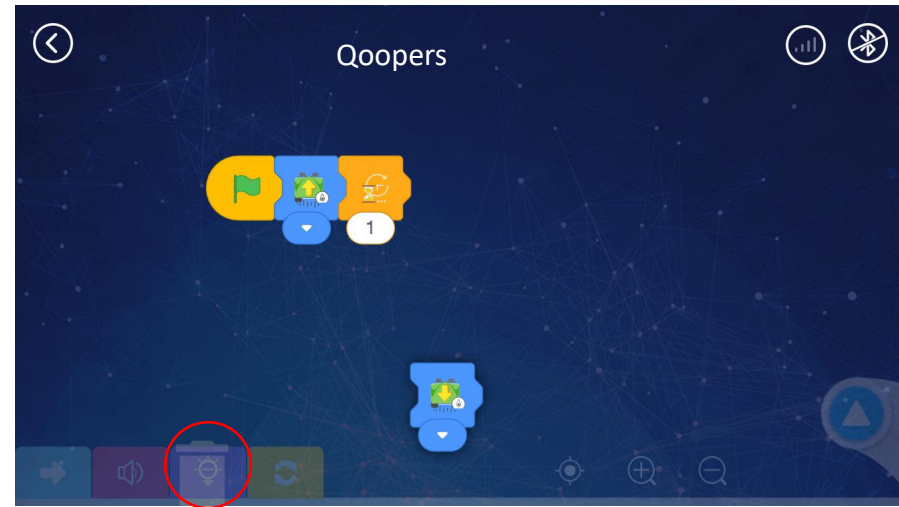
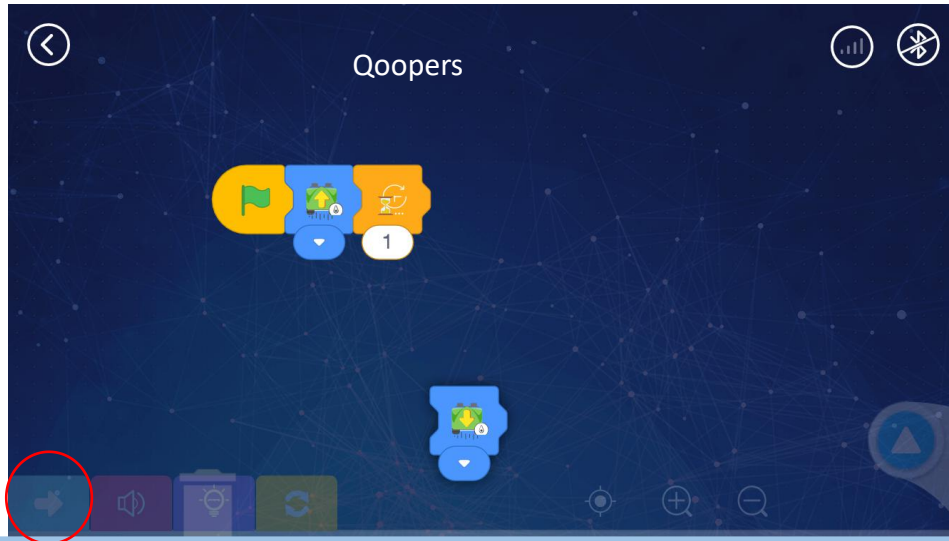
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Programming

Delete icon:

In the process of programming, if you want delete redundant icon, you need to drag icon that need to delete to bottom, then it will appear garbage can , loose icon then you can delete it.



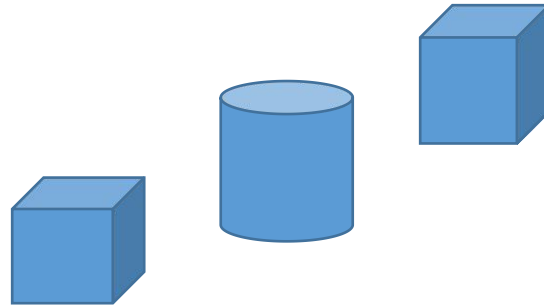
After finishing programming, turn on electrical source switch of the dozer main control panel, connect mobile phone and the dozer with bluetooth.

After connect successfully, click on operation icon, then you can control the dozer to move.



Extends

Put different weight blocks on the front of the dozer to imitate terrain of Metal Block planet , then control the dozer to move, to push blocks, and then achieve roads reclamation.



Summary and rethink

1. In the programming, how to change movement speed of the dozer?
2. What is the function of time icon in procedure?
3. Compare flow chart and procedure, what things you find?



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