

# User's Guide

Mathematical Programming Cards







### 繁體中文

如果您需要繁體版的“快速入門指南”，可以訪問我們的網站。



### 日本語

クイックスタートガイドの日本語版が必要な場合は、当社のウェブサイトをご覧ください。



### 한국어

퀵스타트 가이드의 한국어 버전이 필요하면 당사 웹사이트를 방문하십시오.



### ةيبرعلا

، عيرسلا ءدبلا ليلدنم ةيبرع ةخسن ىلإ ةجإحب تنك اذا  
ينورتكلال ان عقوم قرايز كنكم يف.



### Français

Si vous avez besoin d'une version française du Guide de démarrage rapide, vous pouvez visiter notre site Web.



### Deutsch

Wenn Sie die deutsche Version der Kurzanleitung benötigen, können Sie unsere Website besuchen.



### русский

Если вам нужна русская версия Краткое руководство, вы можете посетить наш веб-сайт.



### Español

Si necesita la Guía de inicio rápido en español, puede visitar nuestro sitio web.



### Nederlands

Als u een Nederlandse versie van de snelstartgids nodig hebt, kunt u onze website bezoeken.



<http://www.robobloq.com/qobo/um>

# Content

1. Product parts list.....	02
2. Product brief introduction.....	03
3. Product general view .....	04
4. Specification table .....	05
5. Introduction of jointing way .....	06
6. Update firmware.....	08
7. Teaching model for beginner to learn quickly.....	09
8. Lesson for operation steps and content	
Lesson 1: know figures that 0 to 9 .....	10
Lesson 2: find out figure card from 0 to 9 in different types card .....	14
Lesson 3: know 10+ cards .....	16
Lesson 4: know consecutive numbers .....	18
Lesson 5: know +, - two figures plus or minus .....	21
Lesson 6: know +, - three figures plus or minus .....	24
Lesson 7: know >, <, = .....	26
Lesson 8: know the comparison between two figures plus and minus .....	29
9. QA.....	31
10. Regulations for warranty .....	32
11. Company's information .....	36

# Product parts list



QOBO

## Product brief introduction

Mathematical Programming Cards is a programming card that is combined with Qobo for use. It is in gaming form and its diversified scenes stimulate students' interest for math. It is adaptable to different age groups and stages of children's intelligence. It enlightens thinking ability of children; cultivate students' interest and thinking in math by diversified lessons such as operation, game exploration, competition, cooperation, etc.





QOBO

### Product general view

- A. Math Mode Card
- B. Mathematical Programming Cards from 0 to 9, 10+(used to put figures together)
- C. Operational symbol  $+$ ,  $-$ ,  $>$ ,  $<$ ,  $=$  (used to calculate and compare the result of figures)
- D. Ending card (calculate the results and stop exercising)



QOBO

## Mathematical programming cards Specification table

- A. Size of product: 126\*126mm (do not contain concave and convexity)
- B. Environment of using: normal atmospheric temperature (do not put it in the environment that have fire or is humid)
- C. Product weight: 734G



## Introduction of jointing way

Put concave and convexity together



Math card must add operational symbol



There must be beginning card and ending card to calculate result





## Introduction of jointing way

In a mathematical formula, it only can be plus from left to right;  
For example:  $3+6=9$



In a formula, it can only appear one  
Contrast symbol



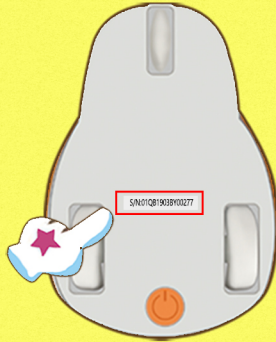
Adding figure card on 10+ card;  
For example: 16





## Update firmware

### First step



Determine the firmware version. If the S/N code is 01QB1903(1908)BY00277 , you need to update the version to use the math programming card.

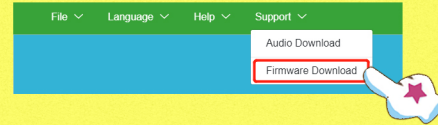
### Second step

Visit [www.roboblog.com](http://www.roboblog.com), click "Software", go to Download page to download QOBO software for PC.

### Third step

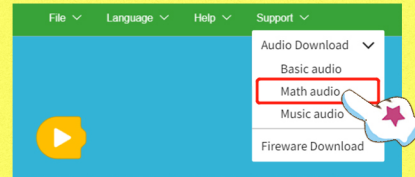
Connect Qobo to your computer with USB

### Fourth step



Download the recent firmware to Qobo on the PC software side

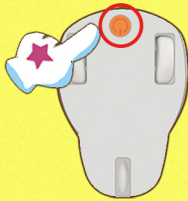
### Fifth step



Download 'Math Audio' file

## Teaching model for beginner to learn quickly

### First step



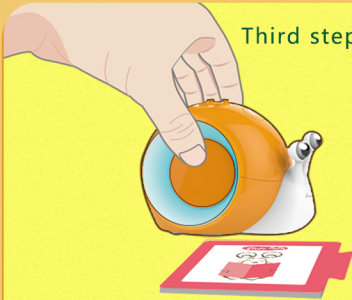
Turn on robot by press button at the bottom for a long time

### Second step



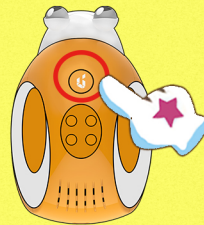
Put simple cards like  $1+1=2$

### Third step



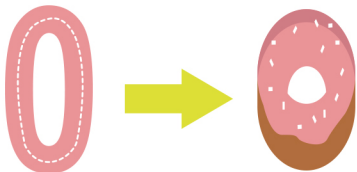
Place the robot on the math mode start card

### Fourth step

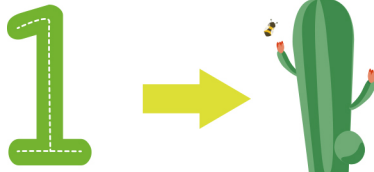


Press start button to operate.

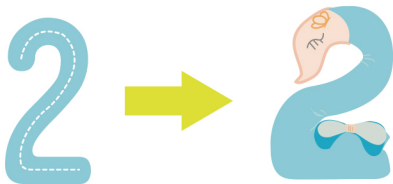
Lesson 1: know figures that 0 to 9



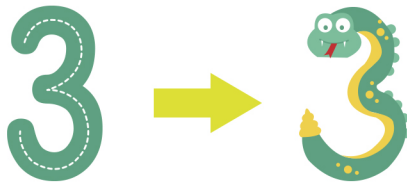
0 likes doughnut



1 likes cactus that slim and long

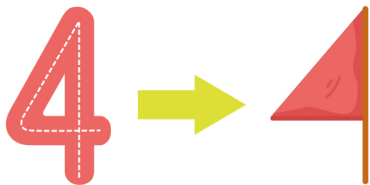


2 likes duck that sleep on the ground

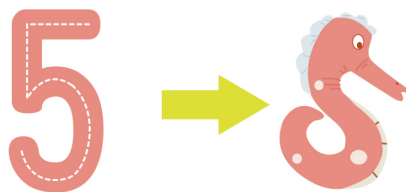


3 likes snake that bend its body

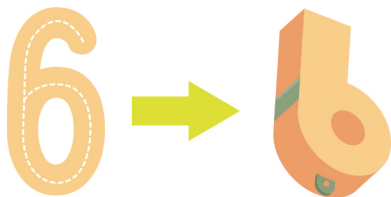
Lesson 1: know figures that 0 to 9



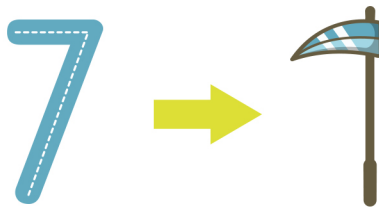
4 likes flag stands up the ground



5 likes seahorse swim in the water



6 likes big whistle



7 likes raised sickle



Lesson 1: know figures that 0 to 9

8



8 likes funnel that flows time

9



9 likes air balloon

Extend thinking

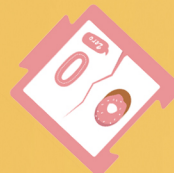
1. Rank 0-9 in turn
  2. Rank 9-0 in turn
  3. What figure does snake that bend body like?
  4. What figure does seahorse like?
  5. What figure like air balloon that fly by the wind?
- If we need to seek other cards, can you find it?



Lesson 2: find out figure cards from 0 to 9 in different types cards



find out figure cards from 0 to 9 in different types cards





## Extend thinking

Please choose corresponding figures according to clue

1. Please find out figure card 5 in the forest
2. Please seek figure card 9 in the forest
3. Please look for figure card 3 in the forest

If we need to seek other cards, can you find it out?

Using Qobo to confirm it right or wrong after arranging in pairs, it will tell you that you are right or wrong.





### Lesson 3: Know 10+ card

How to show 10 - 19?

Example 1 for lesson:  
How to show 12?



Example 1 for lesson:  
How to show 15?



Example 1 for lesson:  
How to show 18?



Example 4 for lesson: How to show those figures that is the actual figure plus more than 10?



## Extended Thinking

Please choose corresponding figures according to clue

1. How to show 11-19?
2. How to show figure that when two figures plus or minus are more than 10?
3. How to show figure that when three figures plus or minus are more than 10?

Using Qobo to confirm it right or wrong after arranging in pairs, it will tell you that you are right or wrong.



## Lesson 4: know consecutive numbers

### TIPS

Children, if a figure is more 1 than that figure, and less 1 than that figure, then that figure is these two figures' consecutive numbers.



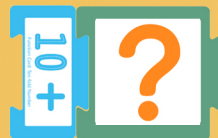
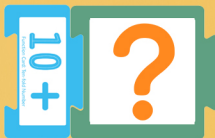
1 is less 1 compare to 2, and 3 is bigger 1 than 2, so 2's consecutive numbers are 1 and 3



2 is less 1 than 3, and 4 is bigger 1 than 3, so 3's consecutive numbers are 2 and 4



#### Lesson 4: know consecutive numbers



Children, think about that what figure should be written in the question mark place?





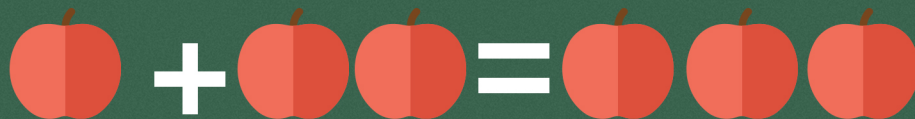
## Lesson 4: know consecutive numbers




Children, Let's verify the final answer together.



'+' shows that combine two figures    '-' shows that reduce or take away    '=' shows that two sides are equal



1 + 2 = 3



4 - 2 = 2

Thinking: what card should be put in the "?"





Children, let us test our answer!





Lesson 6: know + , - Three figures plus or minus

$1 + 2 + 3 = ?$

$7 - 2 - 4 = ?$

$9 - 6 - 3 = ?$

Children, let us test our answer!

1 + 2 + 3 = 6

7 - 2 - 4 = 1

9 - 6 - 3 = 0

Lesson 7: know  $>$ ,  $<$ ,  $=$

' $>$ ' : using ' $>$ ' when one figure is bigger than another    ' $<$ ' : using ' $<$ ' when one figure is smaller than another

' $=$ ' : using ' $=$ ' when one figure is equal to another



$$3 > 2$$



$$1 < 2$$



$$2 = 2$$





Know  $>$ ,  $<$ ,  $=$ : compare which figure is bigger, which one is smaller



Children, think about that which operational symbol should be use here?





## Operation steps of Qobo



Children, let us test our answer!



# Lesson 8: Know the comparison between two figures plus and minus



## Lesson 8: Know the comparison between two figures plus and minus





## FAQ



How to put math card?

The place of putting card is joint by  $a + b = c$  ( $a, b, c$  are figure cards,  $+$ ,  $=$  are operational symbols).



How many figures can be plus or minus at most?

Math cards at most support three figures plus or minus



The direction of putting together of cards?

Put the concave and convex together.



How big a number can it calculate?

At present, it only supports the calculation of 0-20. The calculations less than 0 and greater than 20 are temporarily not supported, and will be opened later.



What 10+ card can do?

Using 10+ card with one of the 0 - 9 cards can make up figures 10-19.



How to use math card?

Download the recent firmware version through the PC software, copy it into the robot, then restart Robot. In the process of upgrading, the blue light will flicker. After success, blue light is in the condition of lighting.



## Product Warranty Instructions

Product performance failures that occur to all regularly purchased QoBo robots and accessories are covered under warranty.

1)Part replenishment: If you find any missing parts within seven days from the date of receipt, these parts will be supplied for free after confirmation is made by Robobloq or the relevant certified technical testing personnel.

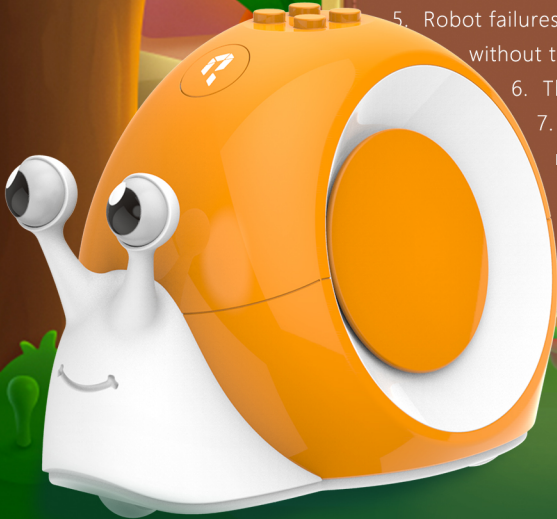
2)Warranty: For performance problems of any robot parts that are under warranty (outside the scope of "non-free maintenance") and are in the warranty period, they will be repaired or replaced for free after confirmation is made by Robobloq or the relevant certified technical testing personnel.

3)Charged maintenance: For quality problems of any purchased robot that is identified as in the "non-warranty period" or within the scope of "non-free maintenance" by Robobloq or the relevant certified technical testing personnel, the robot will be repaired on a paid basis. The service fee shall depend on the specific product and the degree of damage.



## Non-warranty Provisions

1. The operating environment does not comply with relevant national standards, such as those regarding overvoltage, overcurrent, lightning strike, high temperature, high humidity, and vibration.
2. Robot failures or damages are caused by force majeure such as earthquakes or fires.
3. Robot damages are caused by unexpected conditions or human causes, such as water ingress, mechanical damage, dropping, severe oxidation, or rusting.
4. Robot failures or damages are caused by failing to install, use, or maintain the robot in accordance with the user manual.
5. Robot failures or damages are caused by the modification, disassembly, and assembly of the robot without the permission of Robobloq.
6. The replacement and warranty periods have expired.
7. Failures have occurred to the accessories and other parts of the robot, except for the main parts listed in the National Three Guarantees Act.
8. Other failures or damages caused by problems other than the design, process, manufacturing, and quality of the robot itself.



## Product Warranty card

### User information

Date		Name		Tel	
Channel of Purchase				Address	
Product Model				Series NO.	
Remarks:					
Note: Please read the instruction manual before using the product, or when encountering errors (the manual contains "Q&A")					





## Product Warranty card

### Warranty Record

Repair date	Fault and treatment	Pickup date	Customer signature





Company : Robobloq Co., Ltd.

Address: Room 2301-2302,Building 6, Shenzhen International Innovation Valley,  
Dashi 1st Road, Xili, Nanshan District,Shenzhen, Guangdong, China 518000

Telephone: +86-0755-26926929

Website: <http://www.robobloq.com>

E-mail: [hello@robobloq.com](mailto:hello@robobloq.com)

Idea worth making

V1.1



