



## Qobo series course

Section 6

Mysterious Moon

# Curriculum objectives

## **Knowledge and skill**

1. Learn to use apple card, banana card;
2. Understand moon in the night sky, know the change reason of phase of the moon;

## **Process and methods**

1. Exercise children's ability of exploration and learning by the process of exploring moon;
2. Train children's ability of operating and creating in form of task challenge;

## **Emotional attitude and values**

1. Train children's cognitive view, enlarge children's eye shot.

# Curriculum introduction



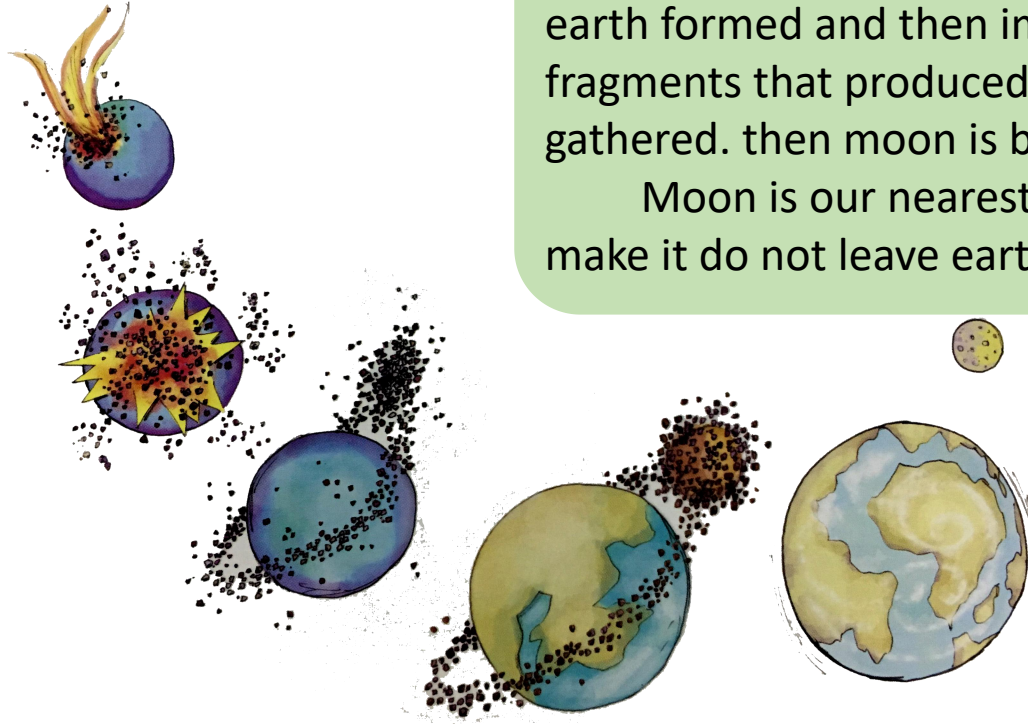
At night, moon will appear in the night sky, the moon shape that we saw also change, sometimes it is orbicular like a plate, sometimes it is curved like eyebrow.

There are a lot of stories about moon in fairy tales.

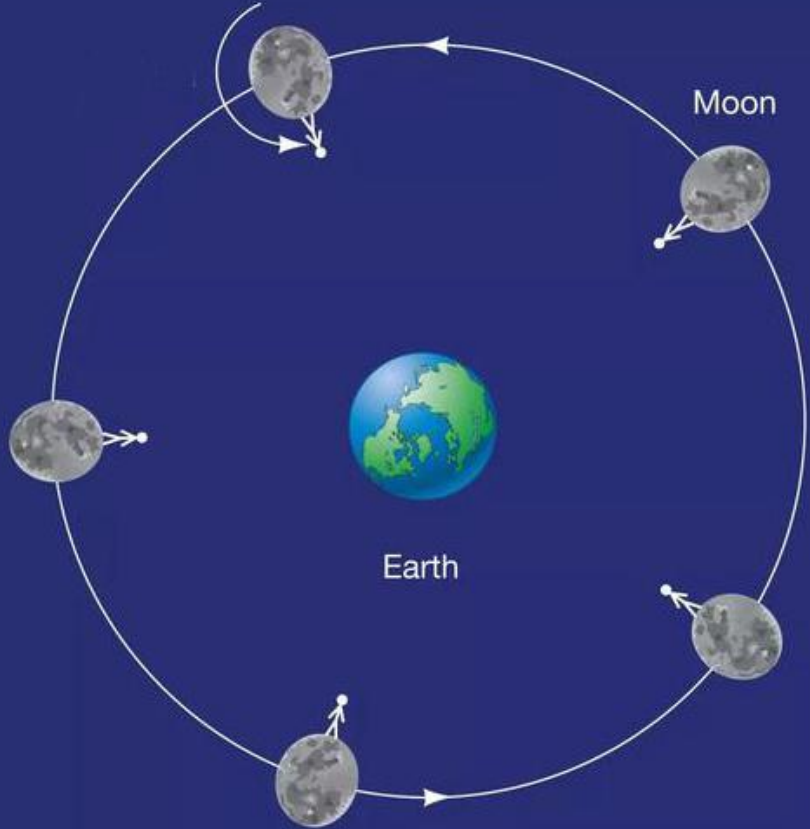
# Curriculum introduction

Scientists think that moon engendered after earth formed and then impact other planet, fragments that produced by impacting mixed and gathered. then moon is born.

Moon is our nearest neighbor, earth's gravity make it do not leave earth.



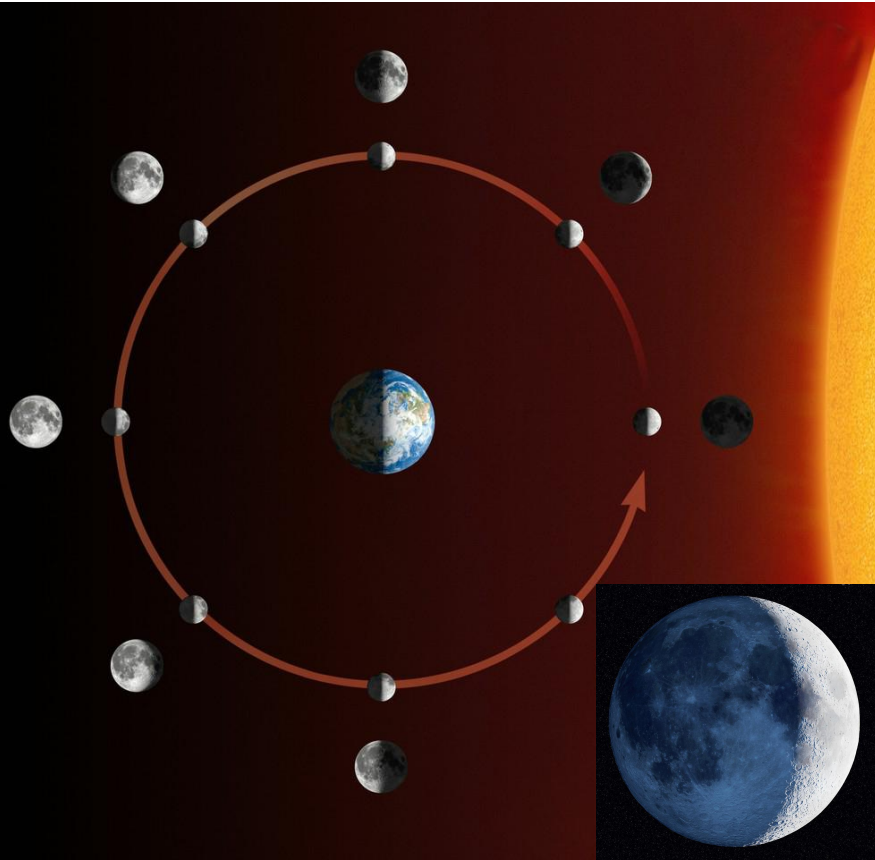
# Curriculum introduction



Parish lantern also called moon, which is satellite that turn round revolving round earth, it just like a loyal guard.

Moon turn round that revolve round earth while it does rotation, we always see one side of moon because the revolution and rotation speed of moon are same, it just like we can only see the "face " of moon, but cannot see the the back side of head of moon.

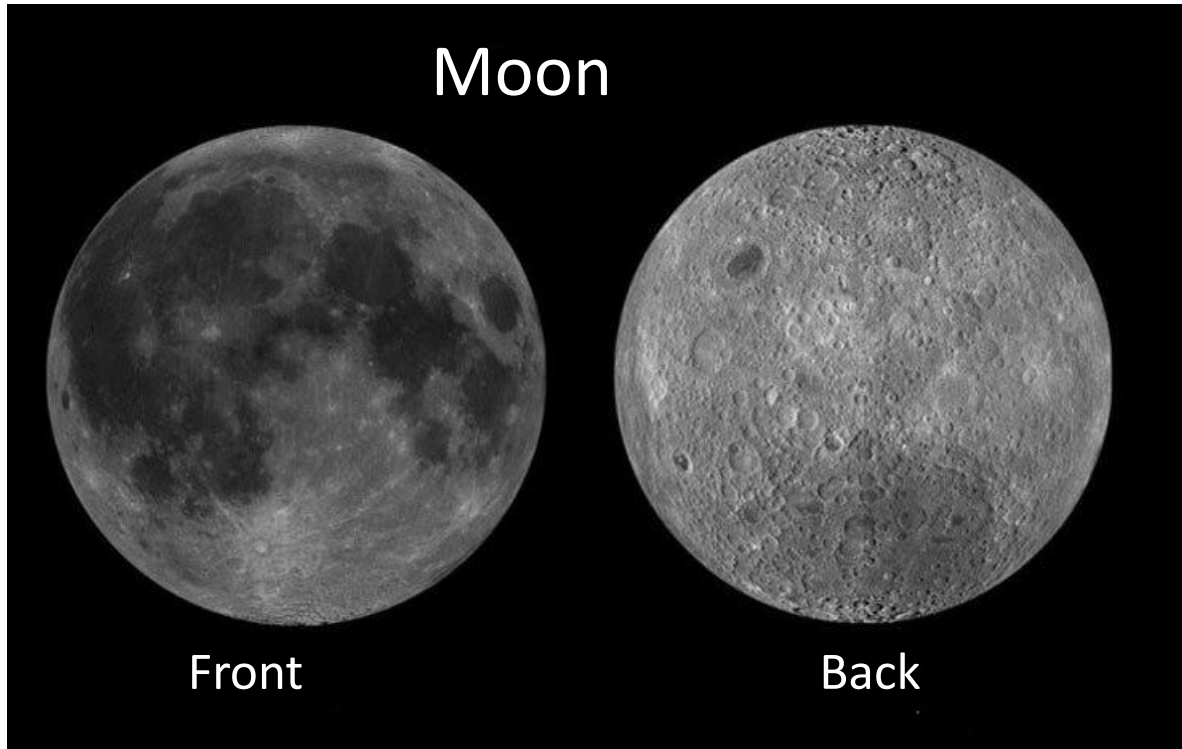
# Curriculum introduction



Why the moon shape that we see in night change?

In space, half of spherical surface of moon is shine by sun, with the movement of moon that at the same time move circumfusing earth, we think the moon change, but actually, it is that the part , which shined by sun, of moon what we see change.

# Curriculum introduction

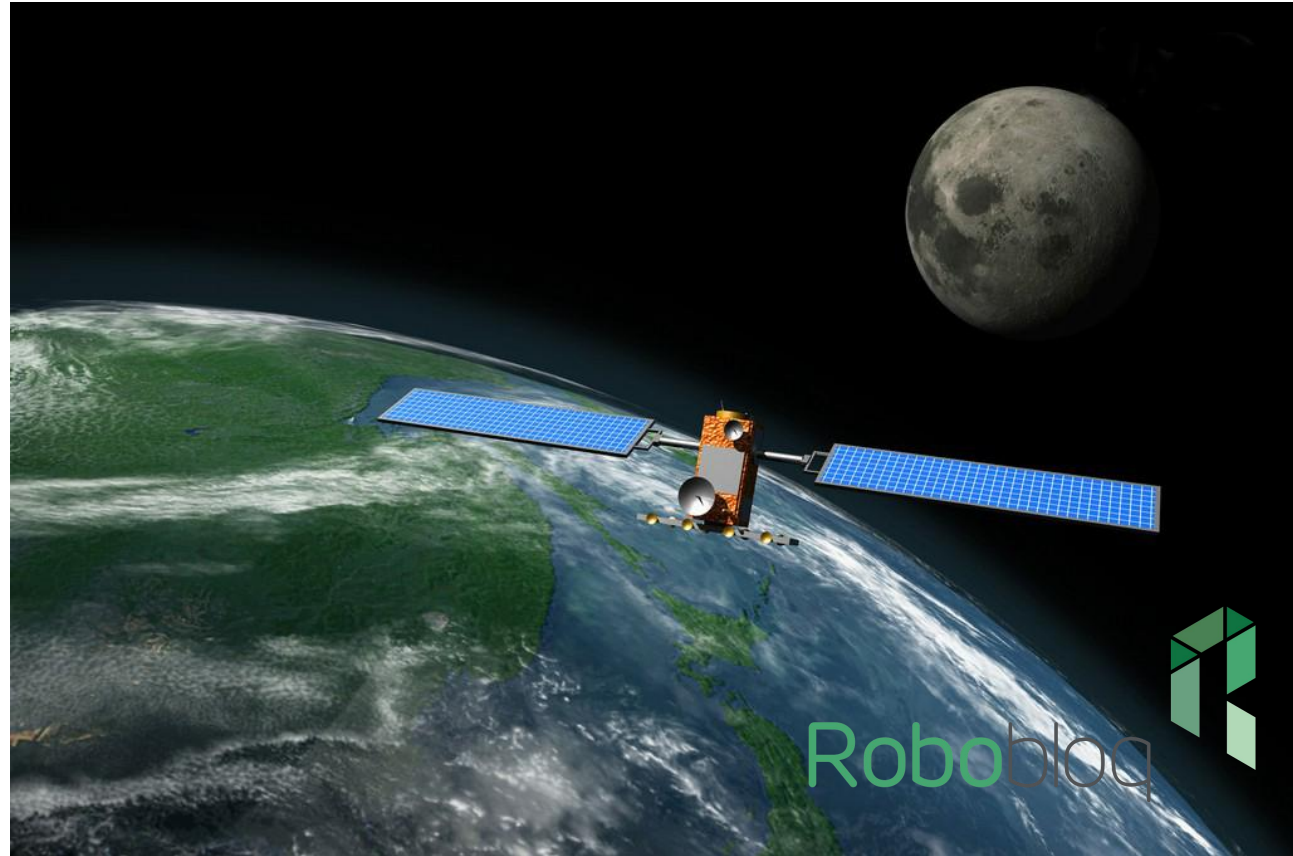


We can see some craters and dark speckles on the front of the Moon. Scientists think these are the ocean of the Moon, but with the development of science and technology, we find that they were formed from volcanic eruption's magma after concreting.

We can see the back of the Moon after the prospecting of the detector and astronaut.

# Curriculum introduction

Qobo will follow satellite to go to the back of moon to detect it and the formative reason of annular mountain range of moon, and then uncover more arcanums about moon.





# Card explanation

Learn apple card, banana card:

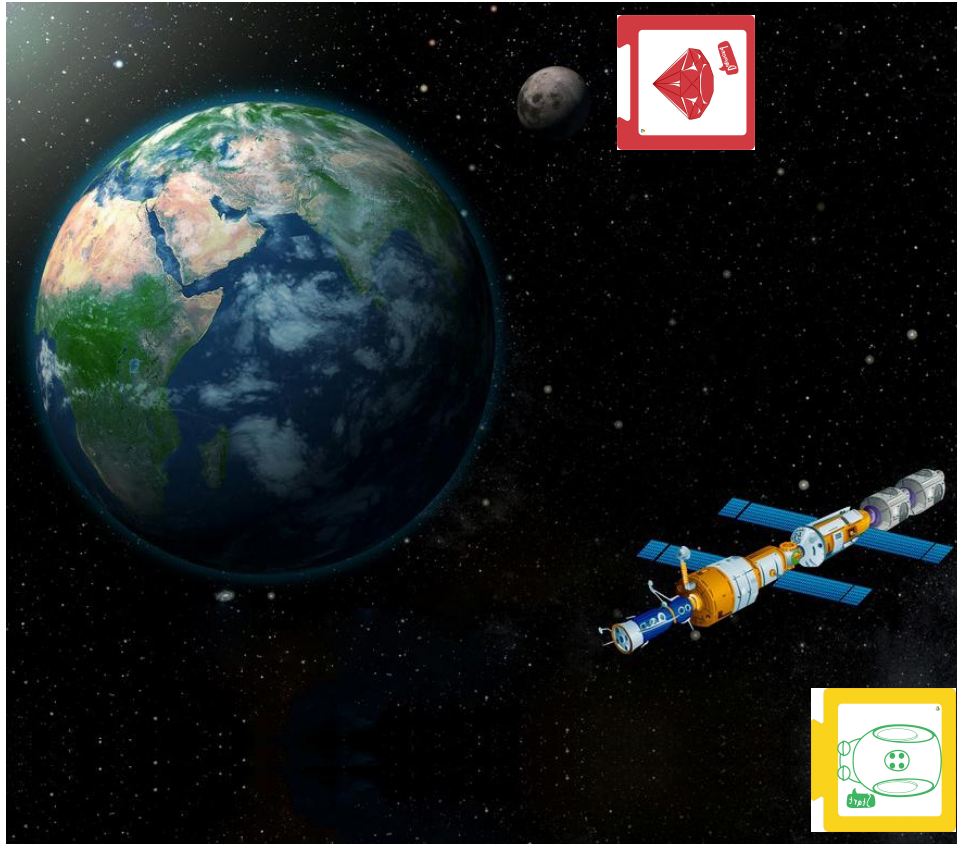
When Qobo is on apple card, it will prompt "pick up apple", then move forward one step; if Qobo is on banana card, it will prompt "pick up banana", then move forward one step.



Roboblog



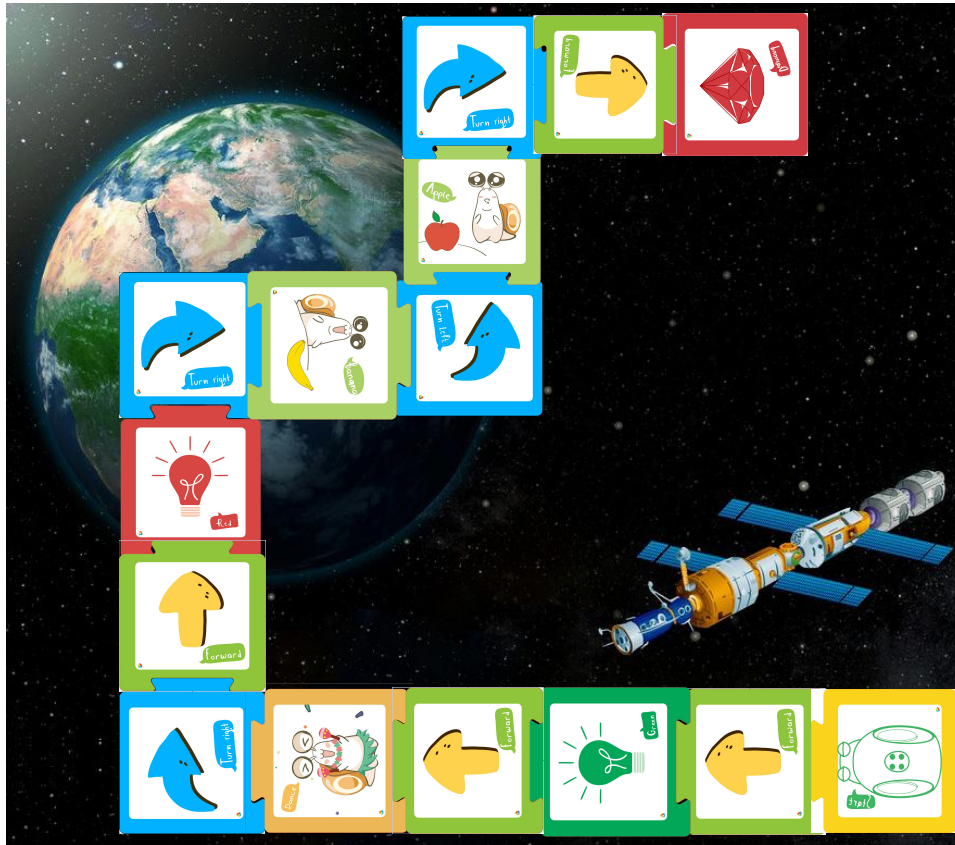
# Hands and brains



It exists sundry danger when fly in space, in order to explore moon safely, we need to help Qobo design a route that fly safely in space.



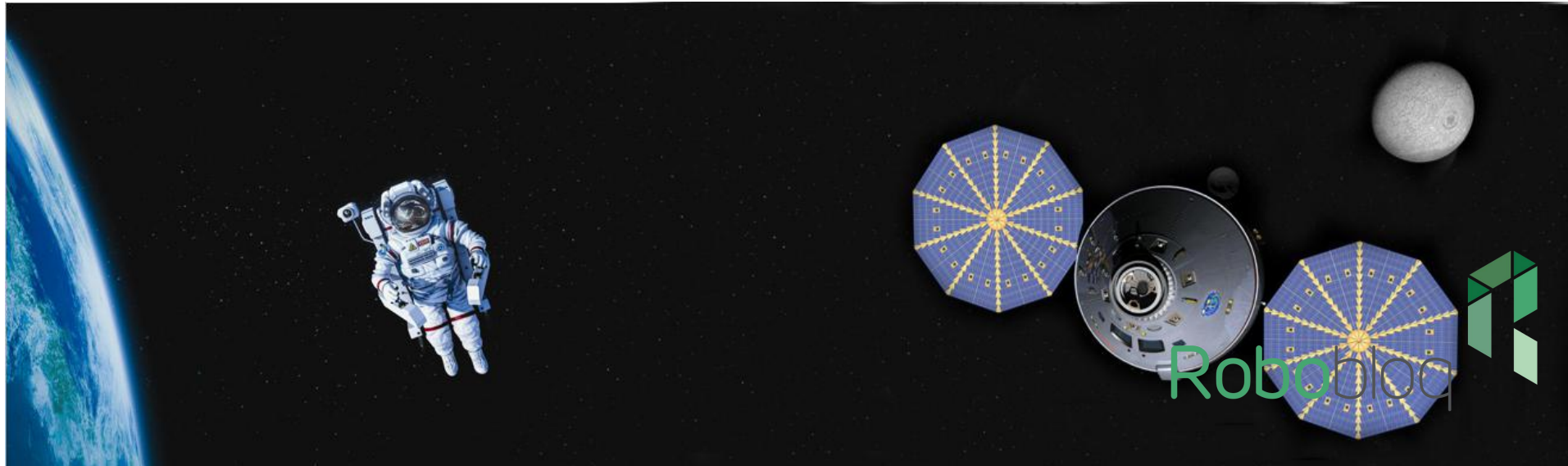
# Hands and brains



We have learned about color light card, dancing card etc. in lessons before, now add banana card and apple card to help Qobo.

# Task challenge

We also can protect Qobo in clothes except design safe route to avoid fragments in space, astronaut only wear spacesuit, they will not be hurt in space.



# After-class sharing



Why the moon shape what we saw in night change?

Sharing fairy tales about moon that you know;

Think about what cards do Qobo use when fly in space.



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