



Qobo series course

Section 1

Our universe

Curriculum objectives

Knowledge and skill

1. Learn to use start card, ending card and advancing card, know their function;
2. Understand formation of universe, know the origin of galaxy and constellation;

Process and method

1. This course takes mysticism of universe as guidance, stimulate children's learning interest to universe;
2. Learn about and master the usage of card by the task of Qobo's space travel;

Emotional attitude and values

1. Train students' scientific exploration spirit by explaining universe.



Curriculum introduction

In night, we can see the very beautiful starry sky, the stars in the sky are twinkling. The earth that we lived is very giant, but for the whole space, earth is just a point in it , and we called this tremendous space as "universe"

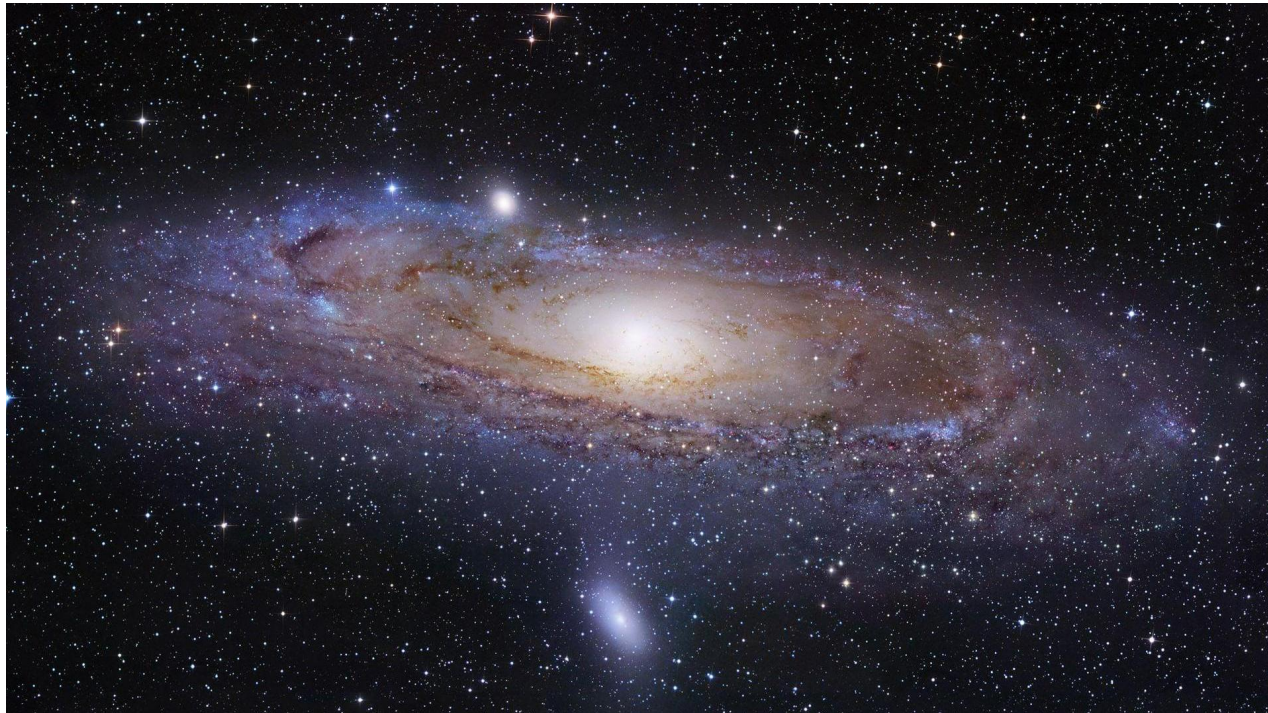


Curriculum introduction



About 14 billion years ago, universe, which was born only after a short time, is a hot fireball, due to explosive expansion, it evolved into nowadays' form gradually. After blast, space formed different shape, such as sphericity, spirality, vortex shape, they attract each other continuously, formed different galaxy, such as Milky Way galaxy, Andromeda galaxy, Great bear galaxy etc.

Curriculum introduction



Our earth belongs to Milky Way galaxy of a lot of galaxies.

Milky Way galaxy is a oblate sphere space, it looks like discus. There are numerous fixed star, nebula, the dust, they like sun, and also include black hole.

Curriculum introduction

We can only see stars in the night, because in the day, the sun's ray is very strong, and it covers stars' light, ancient people connect stars of the sky, paint different pictures, that is the constellation.



Curriculum introduction

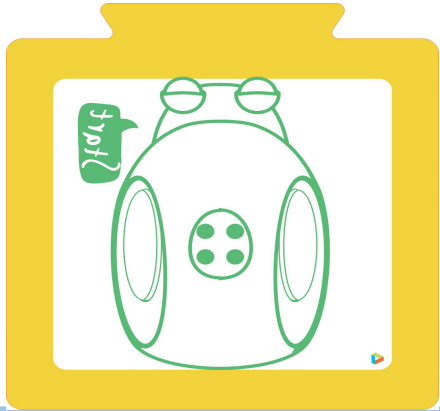
In ancient times, in order to be convenient for differentiating direction and observing astronomical phenomena in voyage, so people connect stars, which intersperse in the sky, with their imagination, and then named these stars as different constellations.



Card explanation

The beginning card of Game Mode:

When Qobo is on this card, it will start blockade-breaking module, and advances one step.



Ending card:

When Qobo is on this card, Qobo will stop, and say "I found jewel eventually" happily.

Forward card:

When Qobo is on this card, it will advance one step.

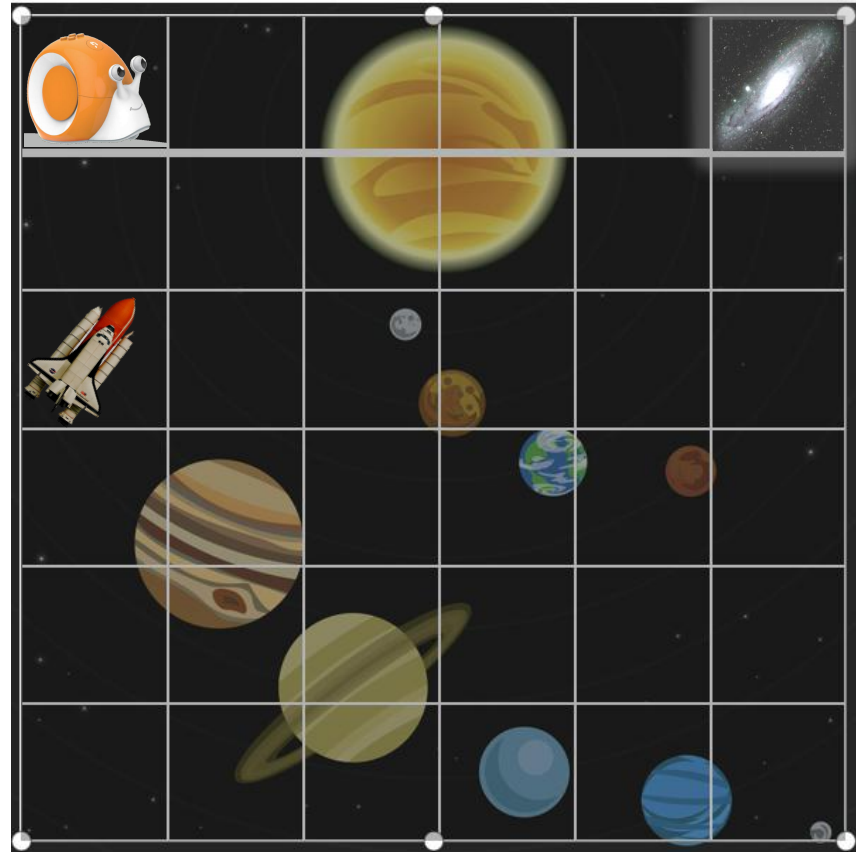


Hands and brains

We need to use different card to connect, and every time before Qobo set off, we need put Qobo on the beginning card.

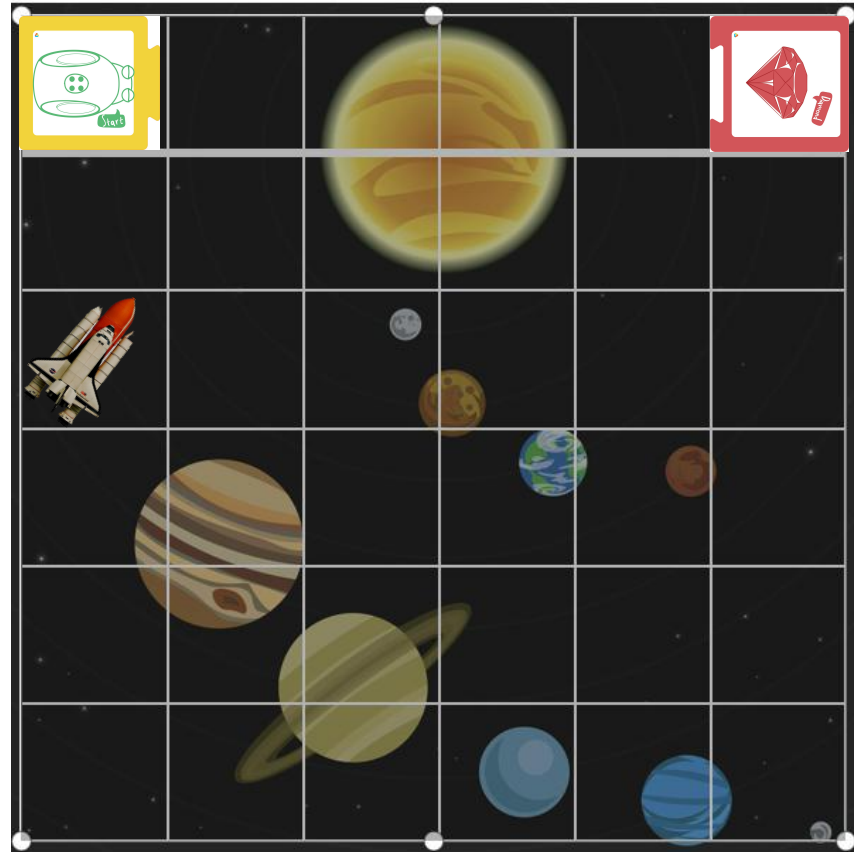


Hands and brains



How giant is the mysterious universe? How hot the sun is? and why moon is sometimes complete, and sometimes not? There are a lot of question need us to explore, therefore, let Qobo brings us fly to space to explore the arcanum of space.

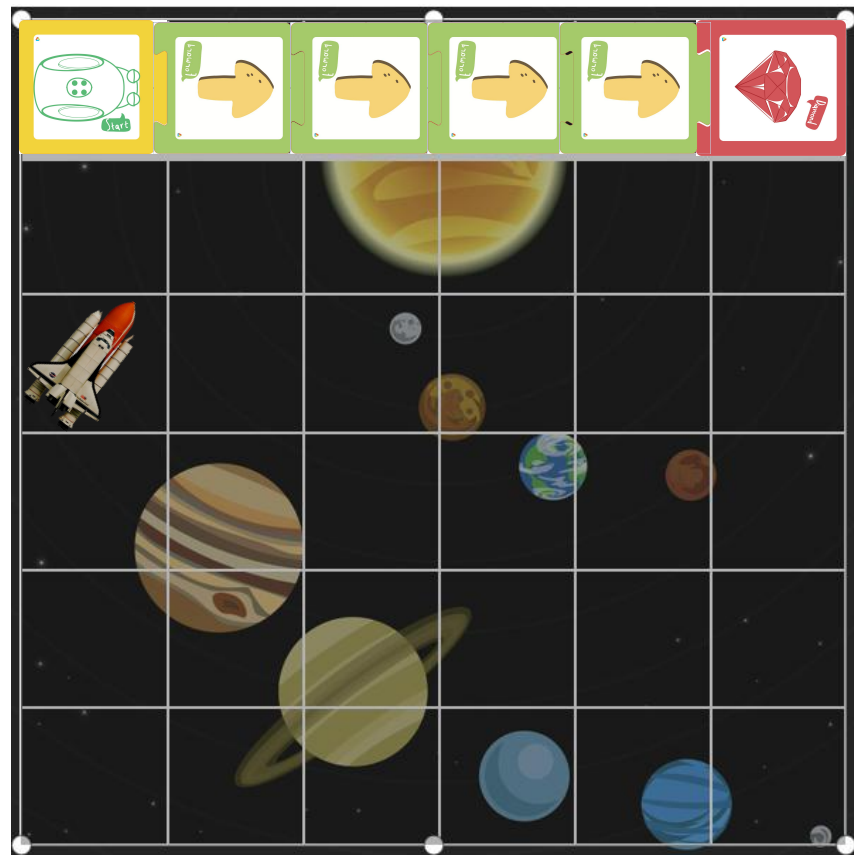
Hands and brains



The goal of Qobo is Milky Way galaxy which earth is situated, that is a remote space travel.

Using cards that we have learned to build route which fly to Milky Way galaxy, let Qobo operated along with the route.

Hands and brains

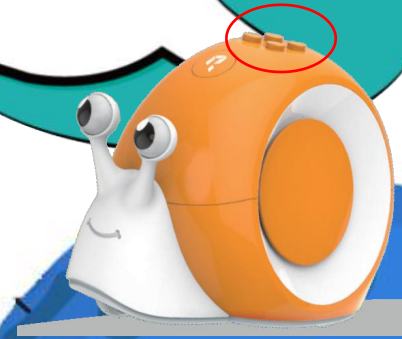


Build route to help Qobo reach destination with forward card. Record how many steps does Qobo advances?

Task challenge



The salient point of Qobo's top can connect Lego blocks, adding "wings" to Qobo with blocks.



Roboblog



After-class sharing

Children, do you know how is universe formed? which galaxy does earth that we lived belongs to ?

Which cards do we learned? and what function does the beginning card have?



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