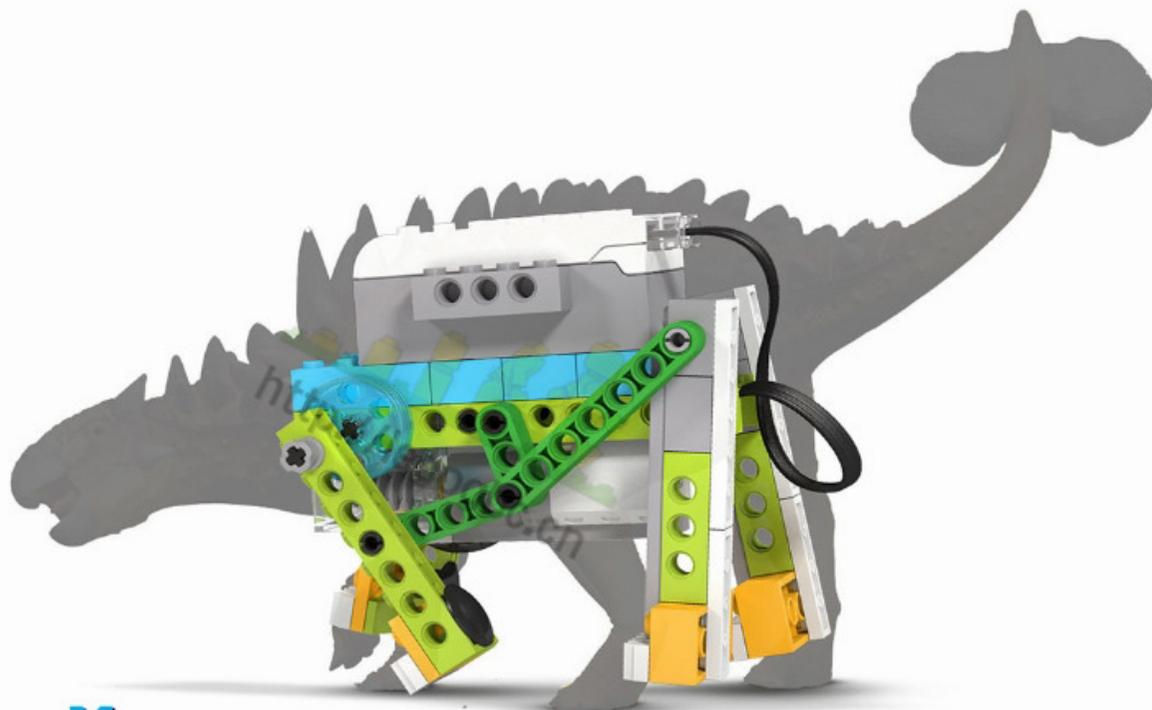




Dinosaur's reconstruction



关注公众号获取更多



Dino-X



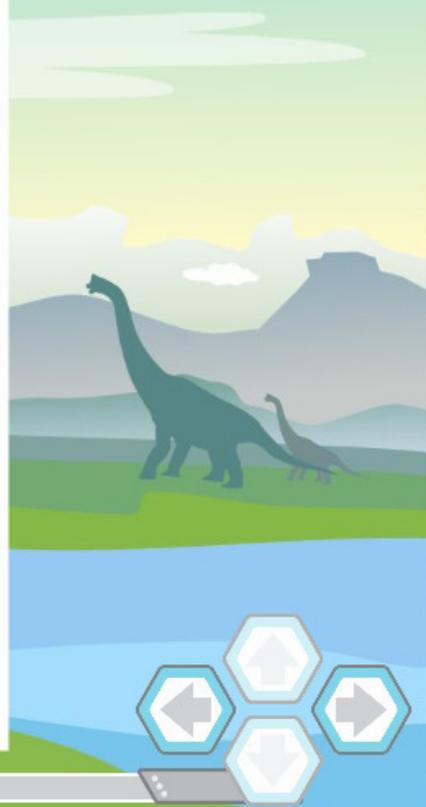
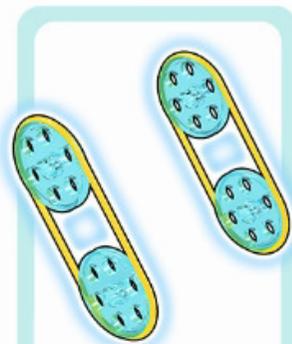


Let's remind. Tyrannosaurus



关注公众号获取更多

Place parts of the robot on the right places



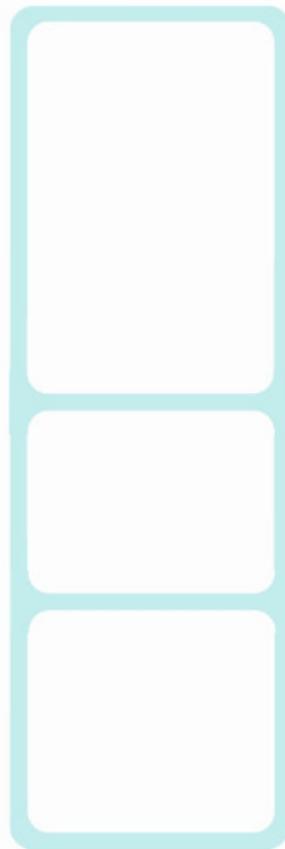


Let's remind. Tyrannosaurus



关注公众号获取更多

Place parts of the robot on the right places





Let's remind. Tyrannosaurus



关注公众号获取更多

What does T-Rex robot use for movement?



Wheels

Legs

Flippers





Paleontology

Paleontology is a science that studies prehistoric life. This includes the study of fossilized remains of organisms to study their development and interaction with each other and with the environment.



关注公众号获取更多



3



5



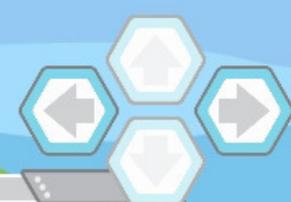
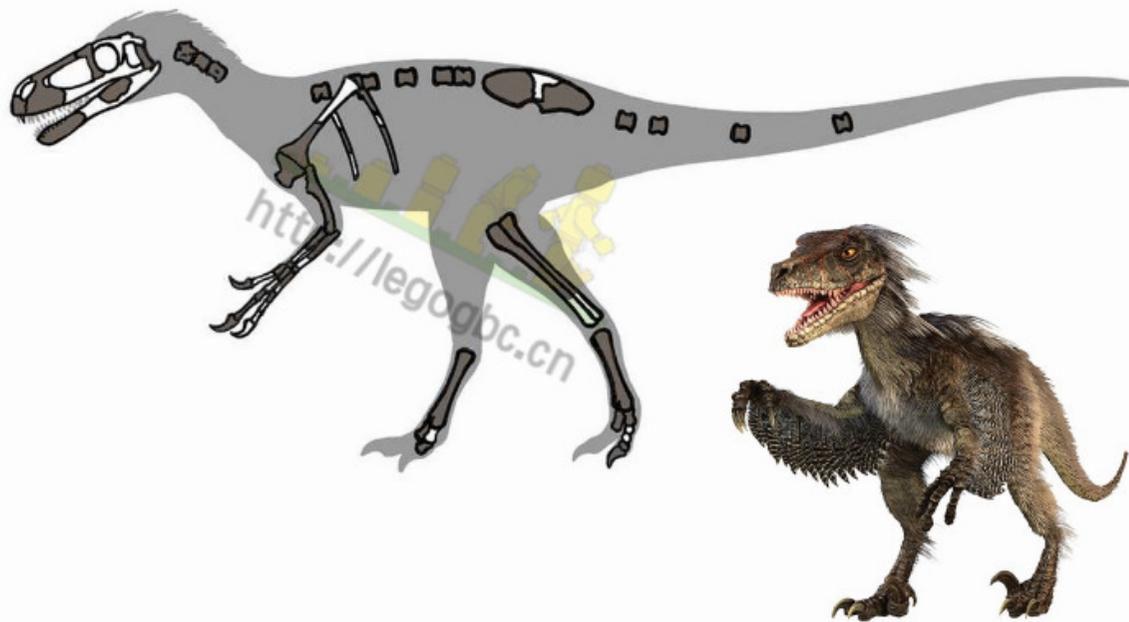


Fossilized remains

Finding a complete skeleton of the creature is an extraordinary event. Typically, only a few parts of individual bones are stored. According to them, scientists determine the kind of found creature.



关注公众号获取更多



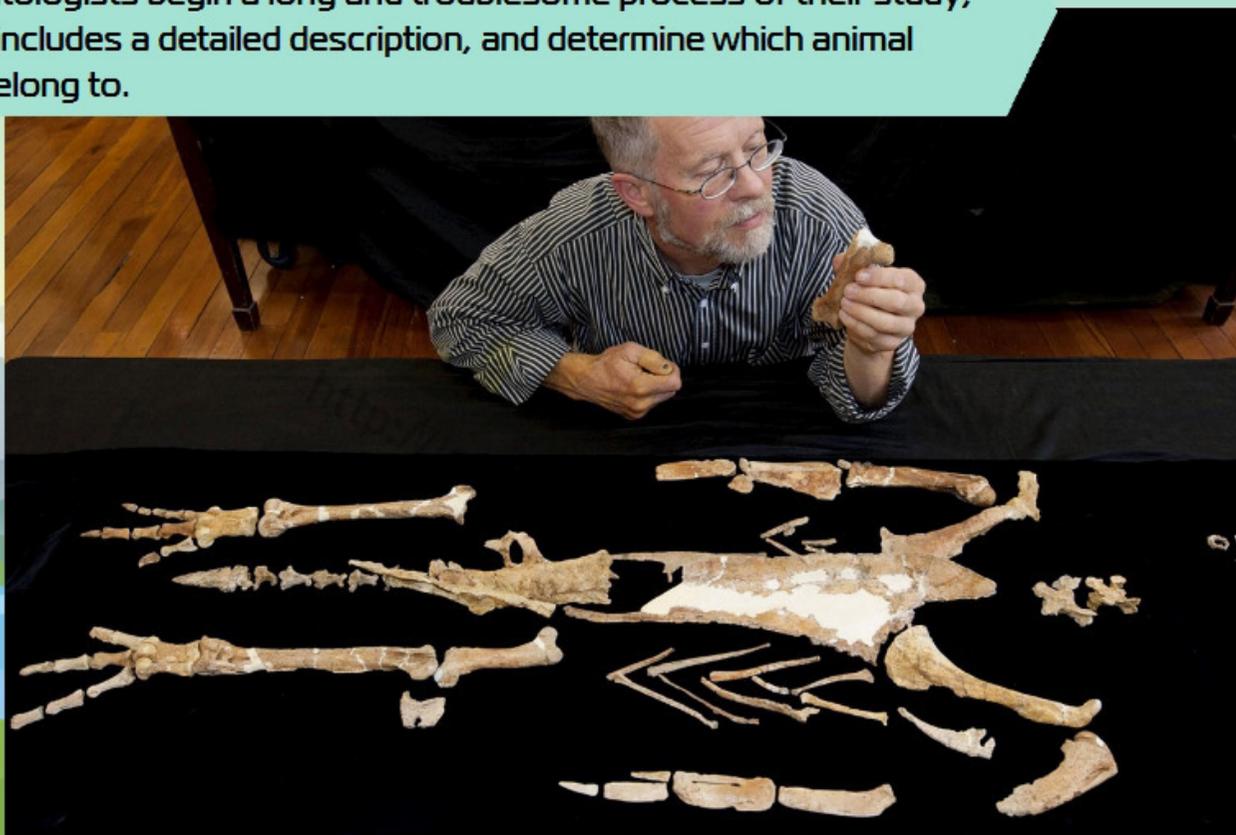


Fossilized remains

After the remains are removed from the ground and cleared, paleontologists begin a long and troublesome process of their study, which includes a detailed description, and determine which animal they belong to.



关注公众号获取更多



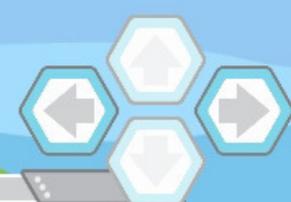


Reconstruction

In order to reliably reproduce the appearance of an animal, need to recreate its complete skeleton. To do this, scientists use the modern laser 3D scanners and computer simulations.



关注公众号获取更多





Reconstruction

As a result, we can see in museums the complete skeletons of prehistoric creatures. Often such skeletons are made from artificial materials according to the models obtained during the scanning of real bones.



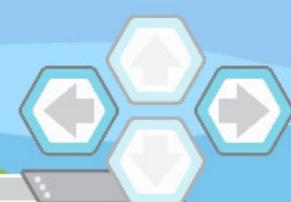
关注公众号获取更多



3



9

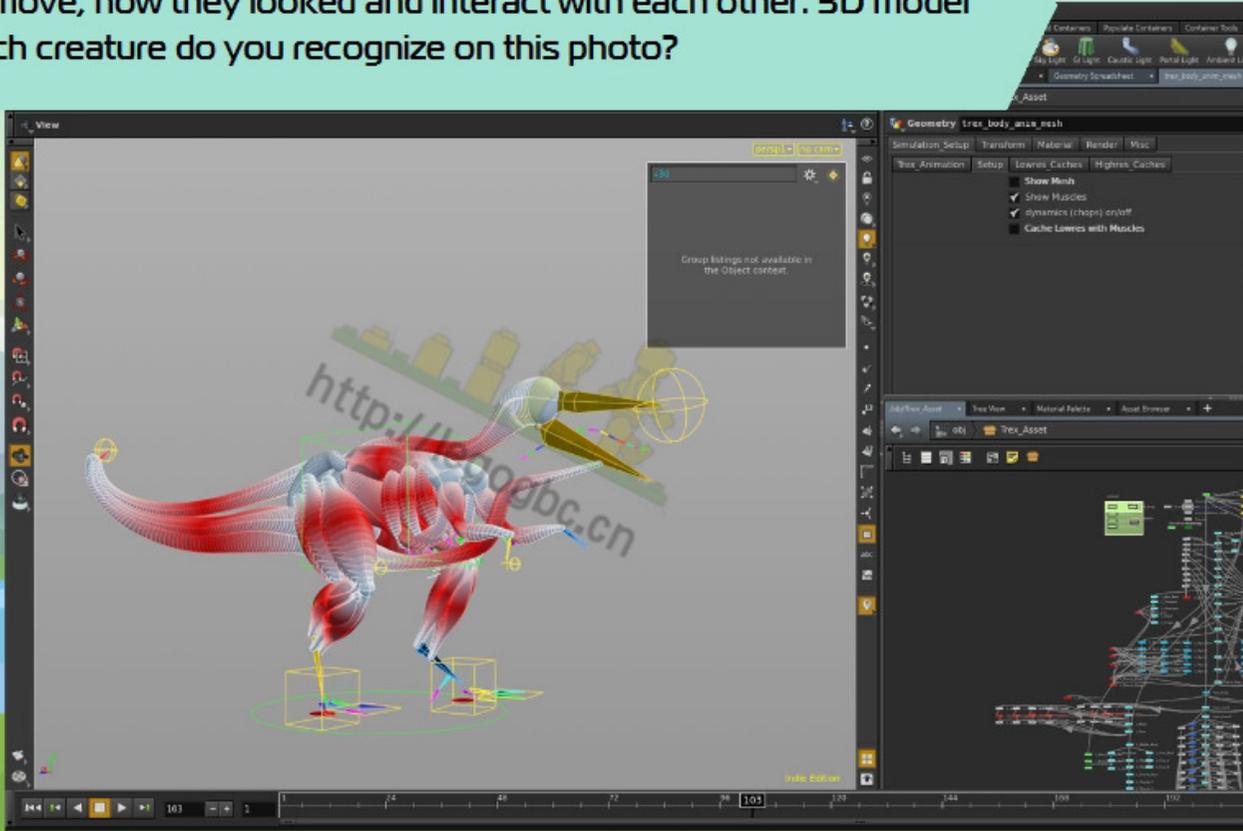


Reconstruction



关注公众号获取更多

Computer simulation helps to better understand how ancient beings could move, how they looked and interact with each other. 3D model of which creature do you recognize on this photo?



3

10



Practice!

Conduct excavations and fold the found parts of the skeletal dinosaur. Which of the five groups of known dinosaurs you can include it? Click on the area to clear it.



关注公众号获取更多



3



11





Task

To which of the five known groups you can refer the folded skeleton? Drag it to the group image.



THEROPODS



SAUROPODS

DINOSAURS

STEGOSAURUS



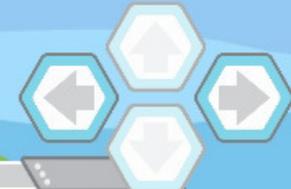
ORNITHOPODS



CERATOPS



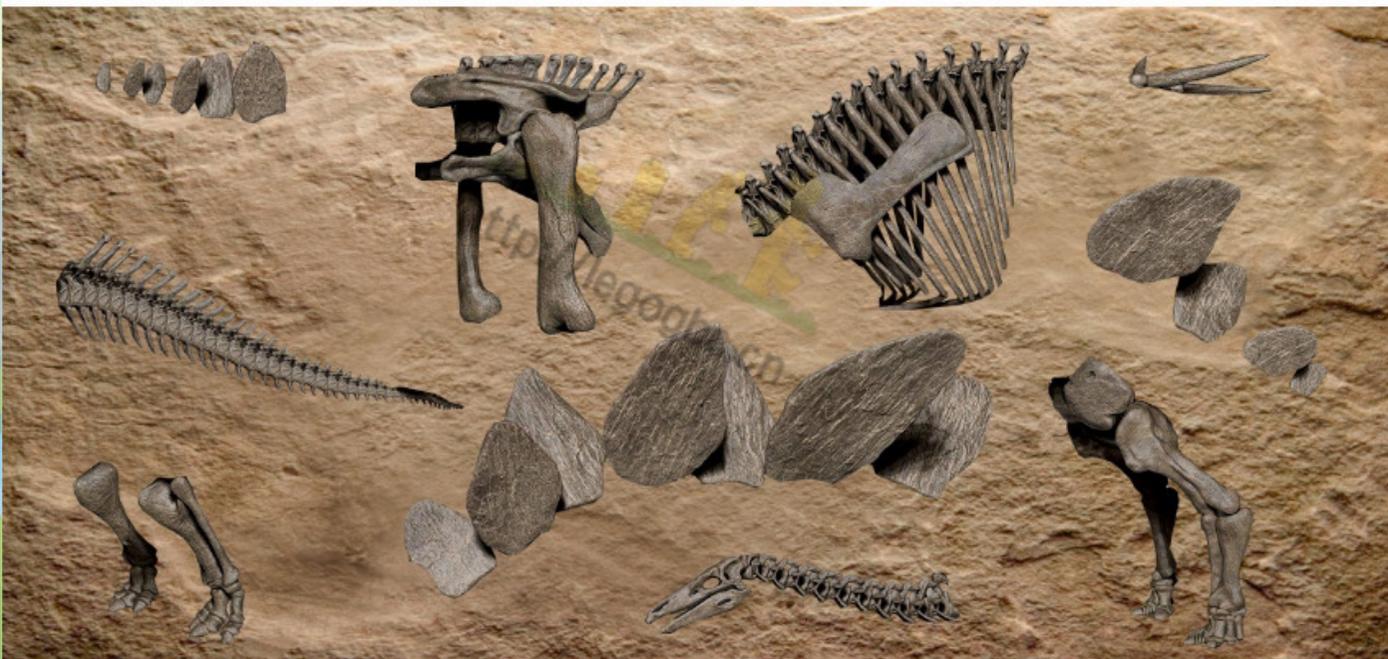
关注公众号获取更多





Practice!

Conduct excavations and fold the found parts of the skeletal dinosaur. Which of the five groups of known dinosaurs you can include it? Click on the area to clear it.



关注公众号获取更多



3



13





Task

To which of the five known groups you can refer the folded skeleton? Drag it to the group image.



THEROPODS



SAUROPODS

DINOSAURS

STEGOSAURUS



ORNITHOPODS



CERATOPS



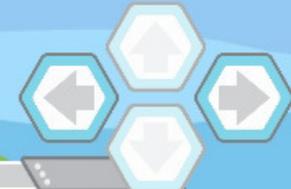
关注公众号获取更多



3



14



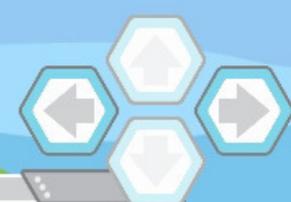
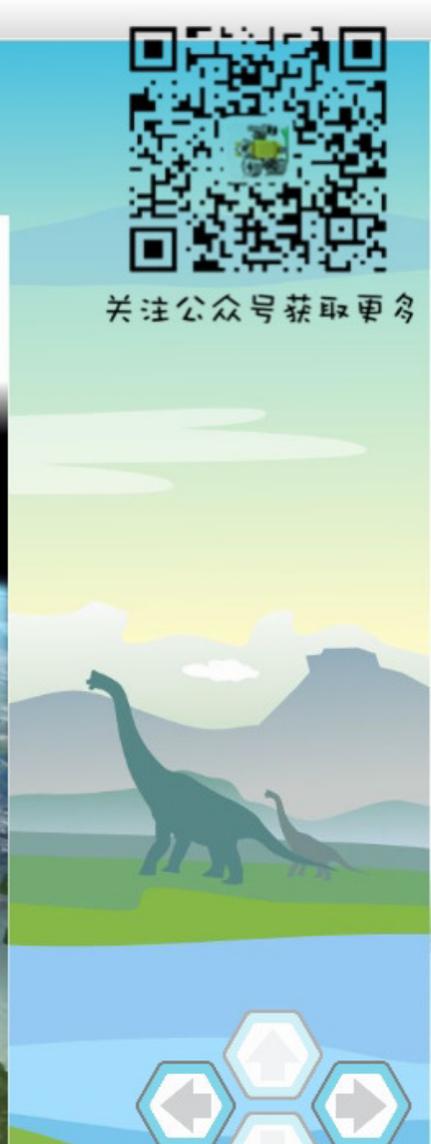
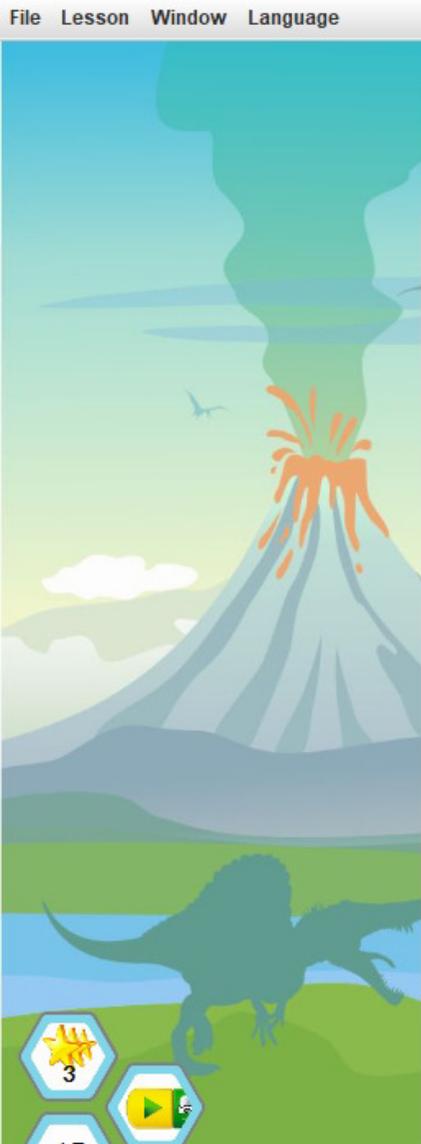


The end of the dinosaurs era

Scientists are inclined to think that the mass extinction of dinosaurs 65 million years ago was caused by the fall of a meteorite and a change of living conditions that happened after that.



关注公众号获取更多





Dino Park

Leveling the surface to build the exposition of the Tyrannosaurus, the workers found fossil remains of the dinosaur and called you to understand what to do next with the discovery.



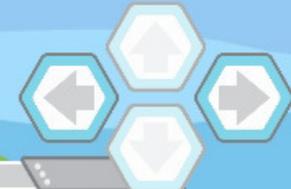
关注公众号获取更多



3



16

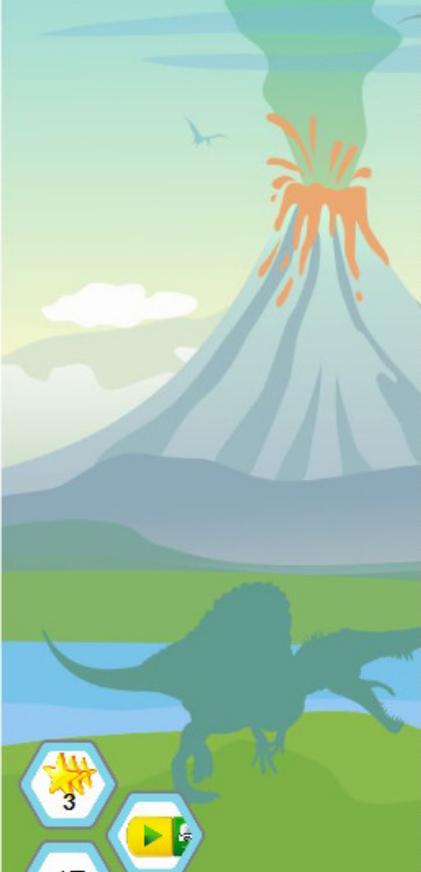
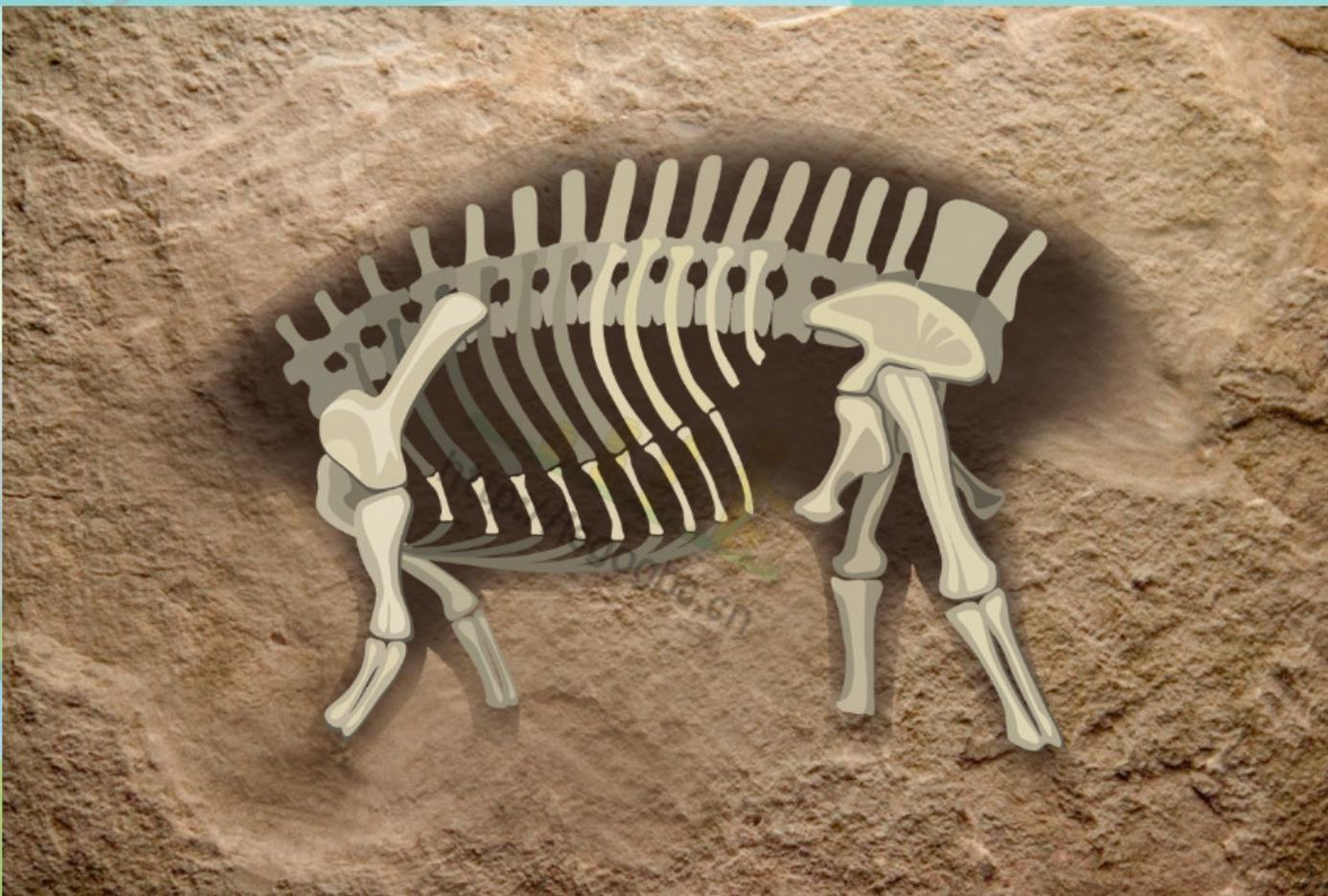




Conduct excavations!



关注公众号获取更多



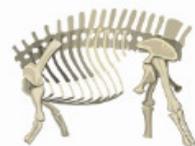
3

17

A set of navigation icons including a left arrow, a right arrow, and a central square icon, all enclosed in hexagonal frames.

Discuss!

To which of the five known groups you can refer the found skeleton? Why do you think so?



THEROPODS



SAUROPODS

DINOSAURS

STEGOSAURUS



ORNITHOPODS



CERATOPS



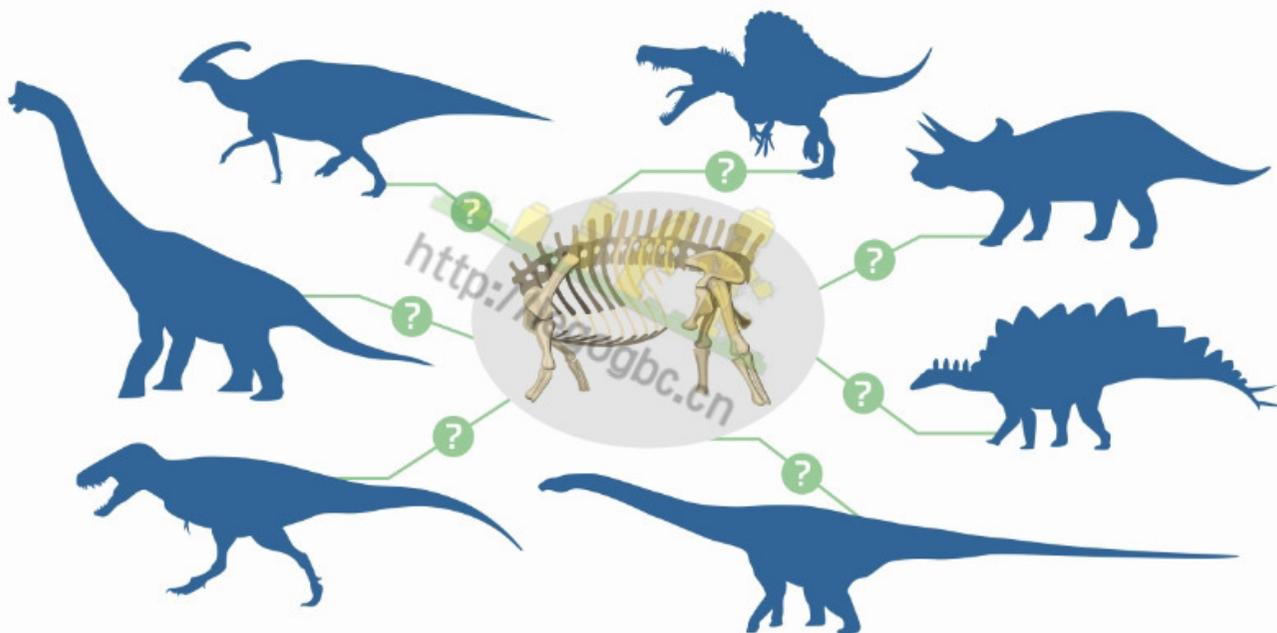
关注公众号获取更多





Task

Using the skeleton of an unknown dinosaur, try to recreate its appearance. Draw, how could look like dinosaur, which was found on the island.



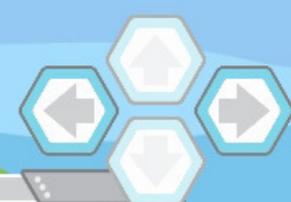
关注公众号获取更多



3



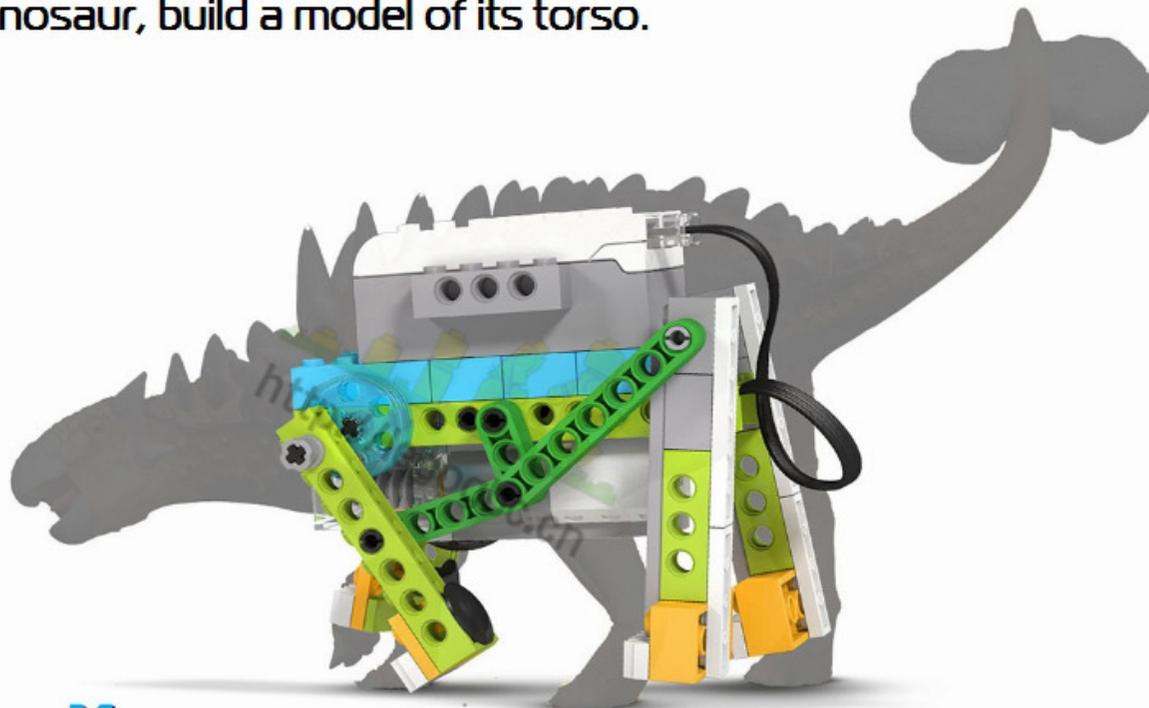
19





Task

In order to learn more about the way of movement found dinosaur, build a model of its torso.



Dino-X



关注公众号获取更多



3

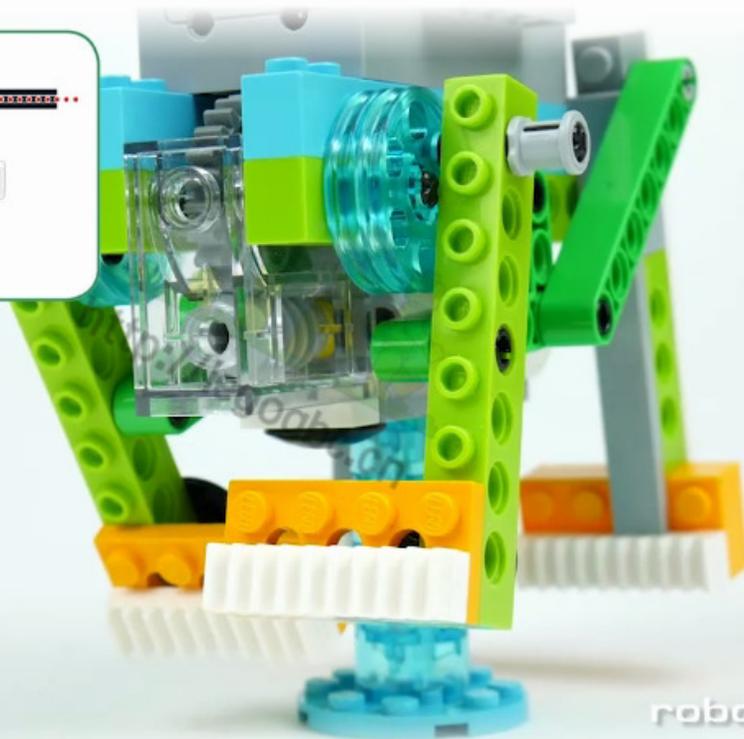
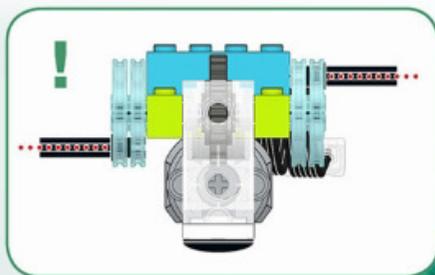


20



Pay attention!

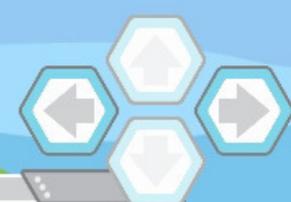
When building the robot correctly fix the crank mechanism. If on the left it is at the top point, on the right it should be in the bottom, and vice versa:



robotiseit.com

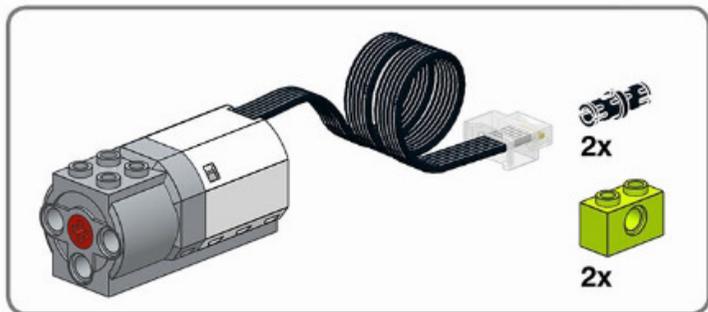


关注公众号获取更多

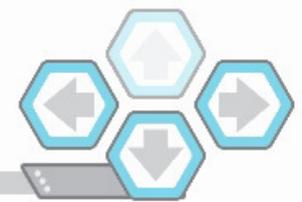
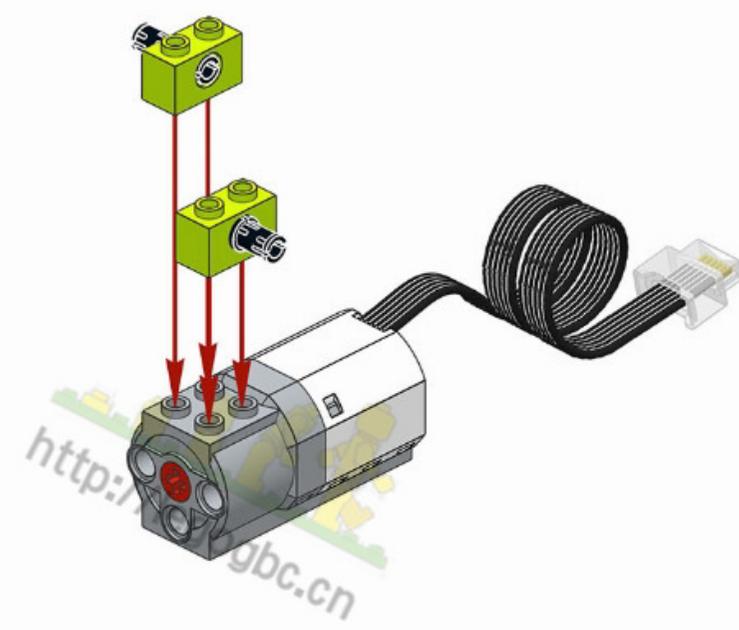




关注公众号获取更多

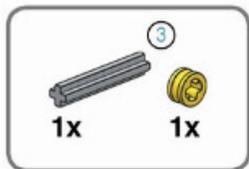


1

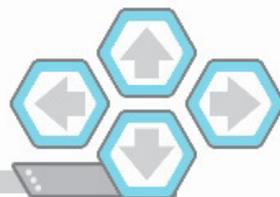
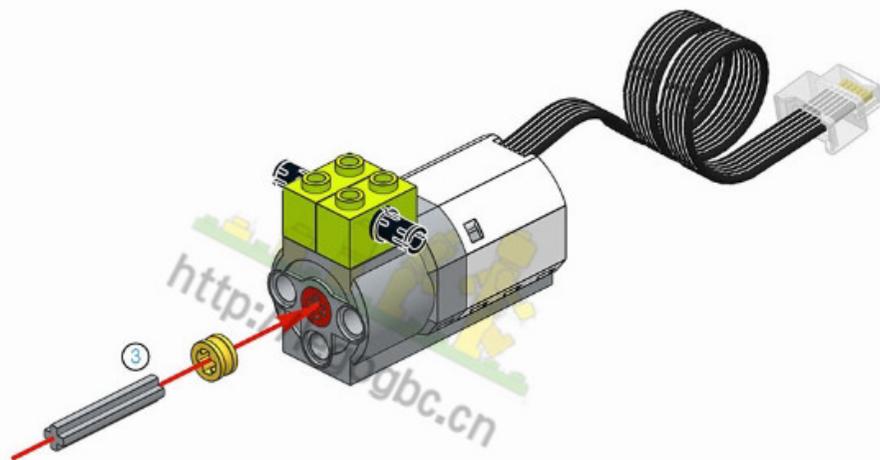




关注公众号获取更多

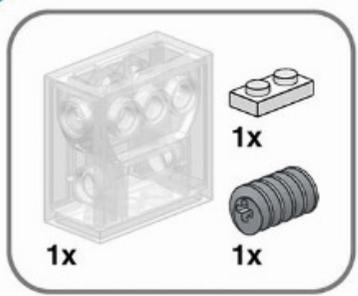


2

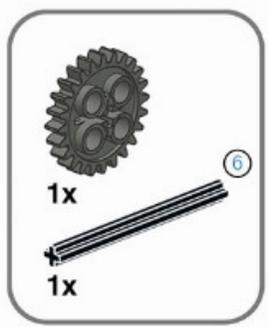
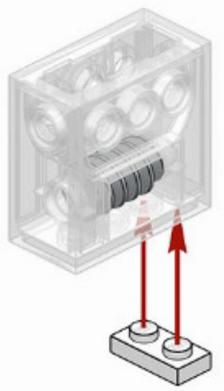




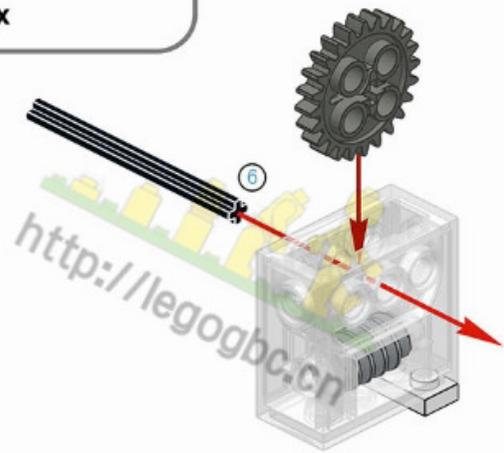
关注公众号获取更多



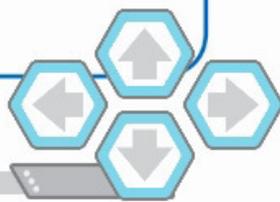
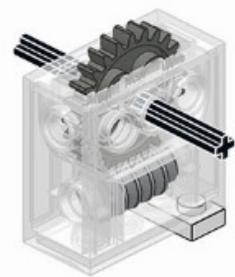
1



2



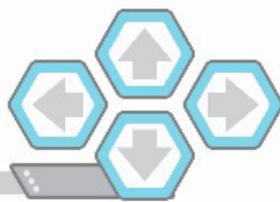
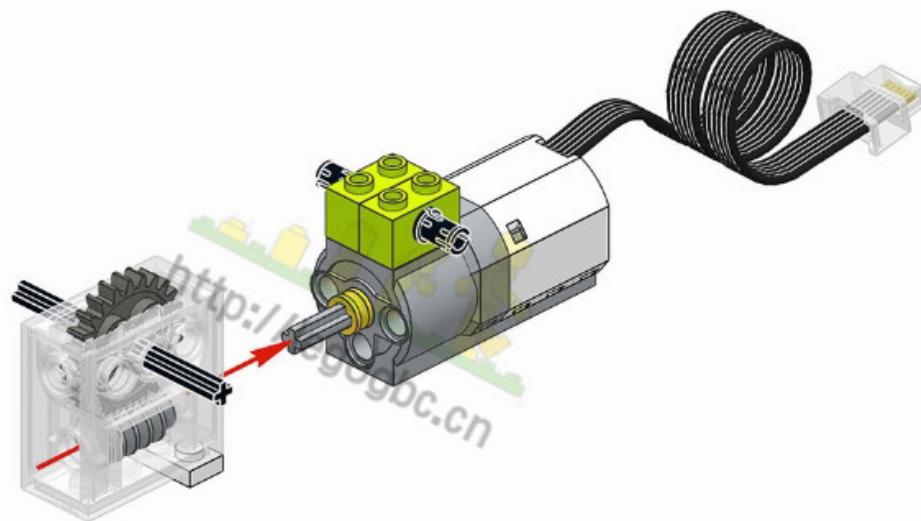
3





关注公众号获取更多

4

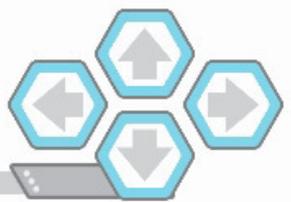
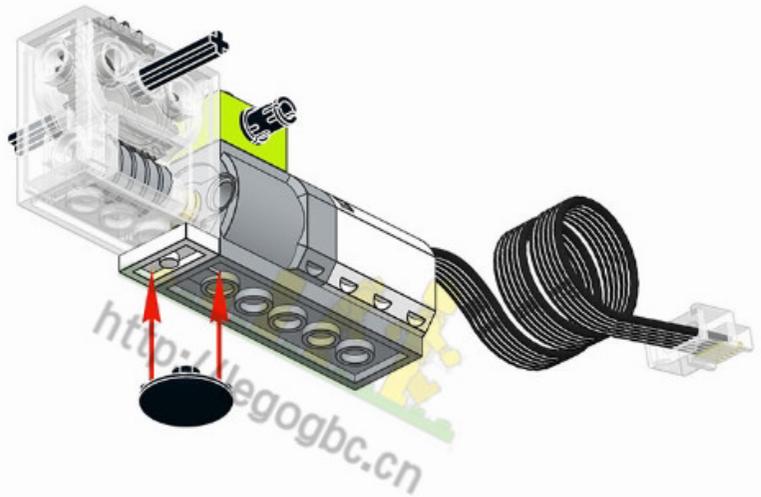




关注公众号获取更多

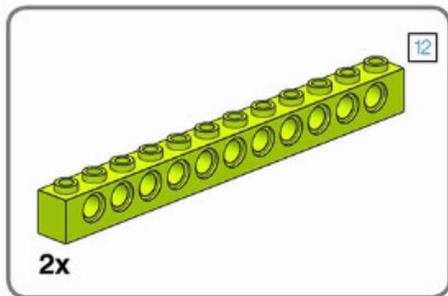


5

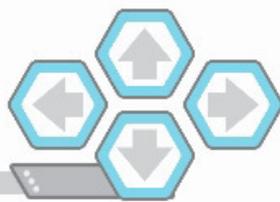
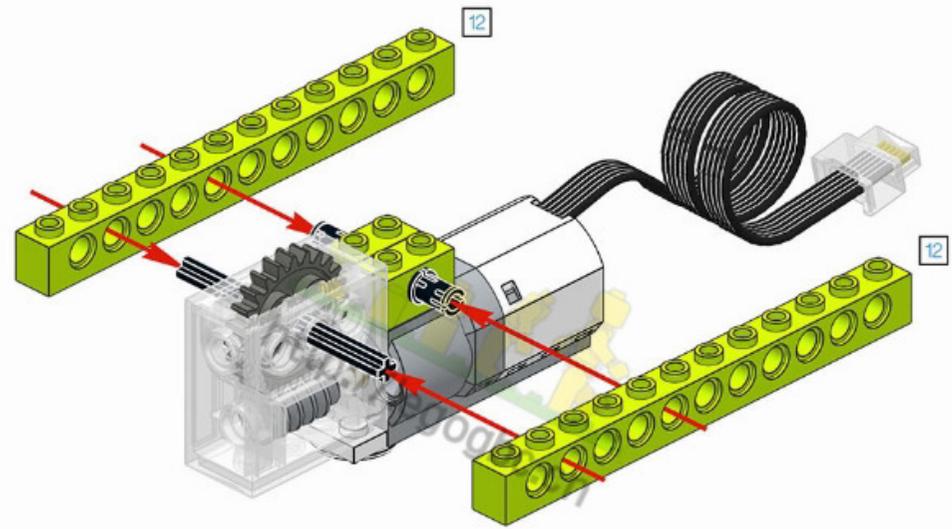




关注公众号获取更多



6

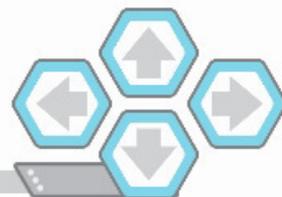
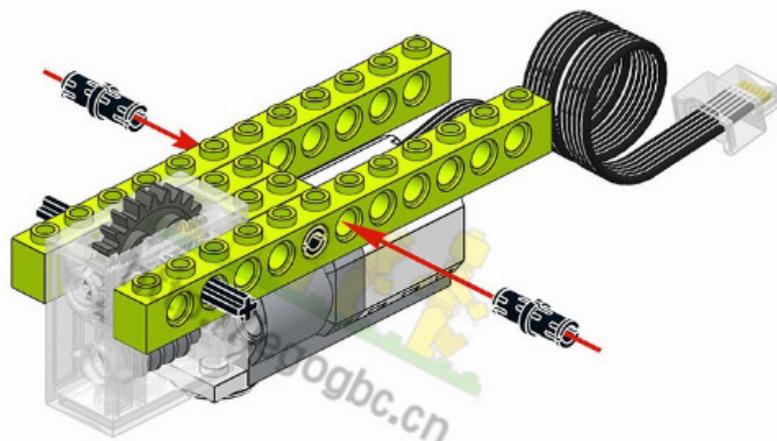




关注公众号获取更多

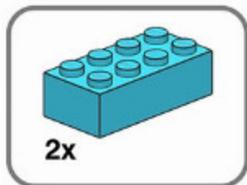


7

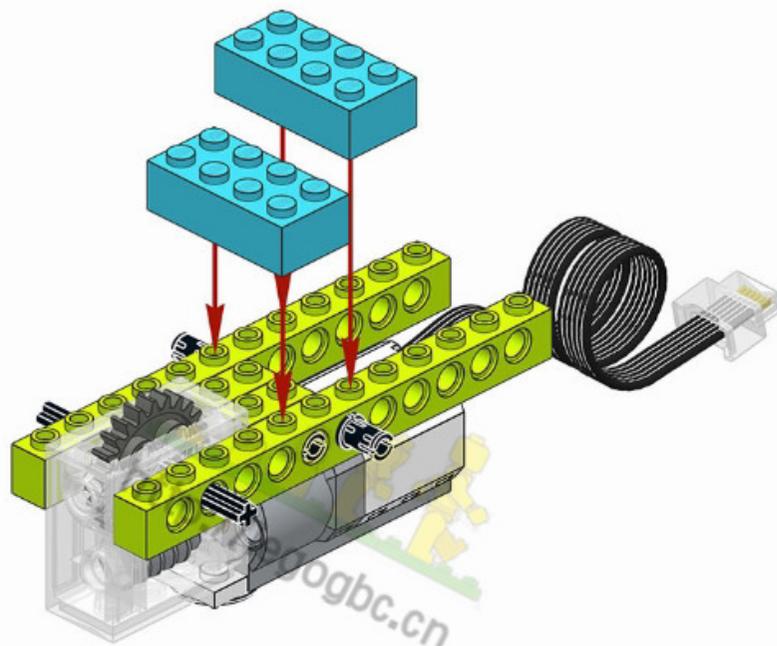




关注公众号获取更多



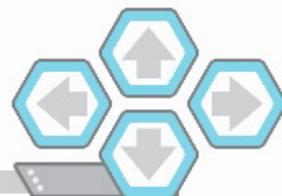
8



3



29



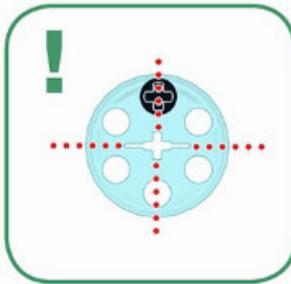


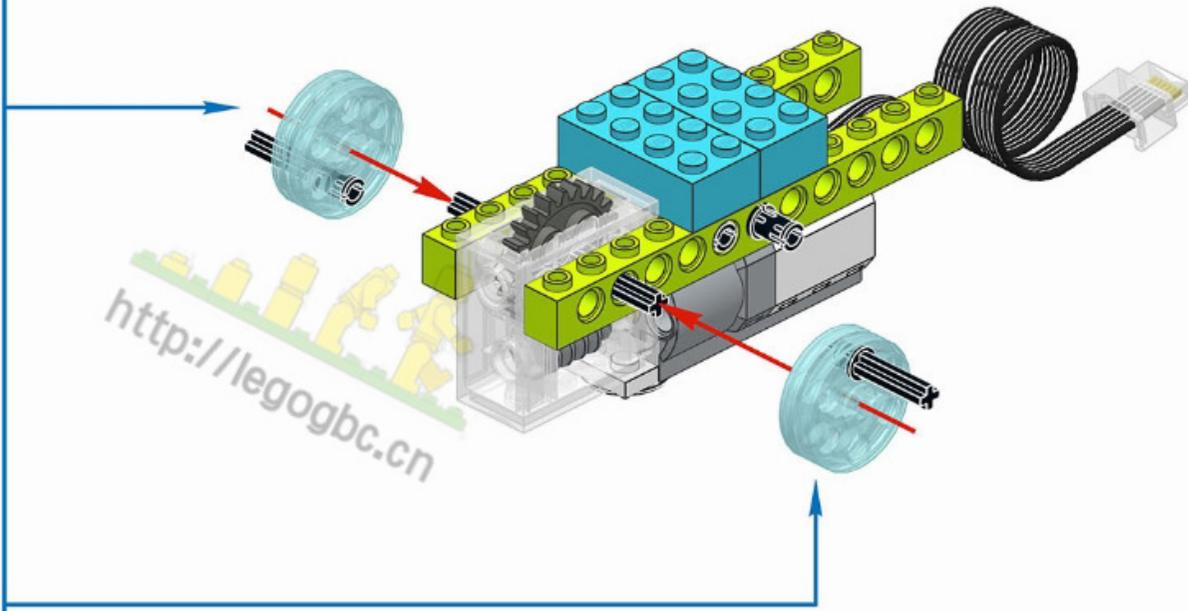
关注公众号获取更多

<http://legogbc.cn>

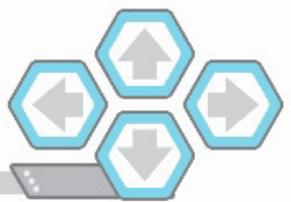
1x  **2x** 

1 

2  



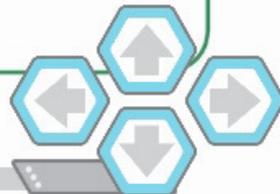
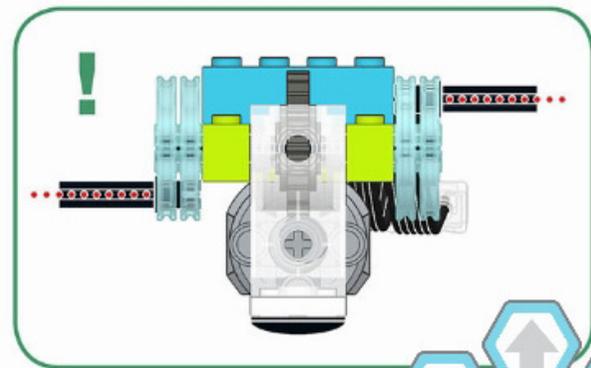
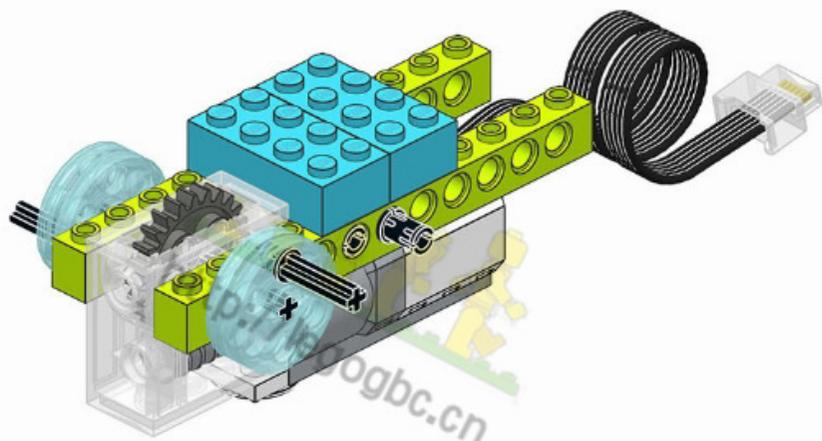
1/35
9/35
3
30



10



关注公众号获取更多



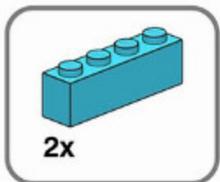
10/35

3

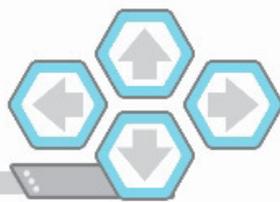
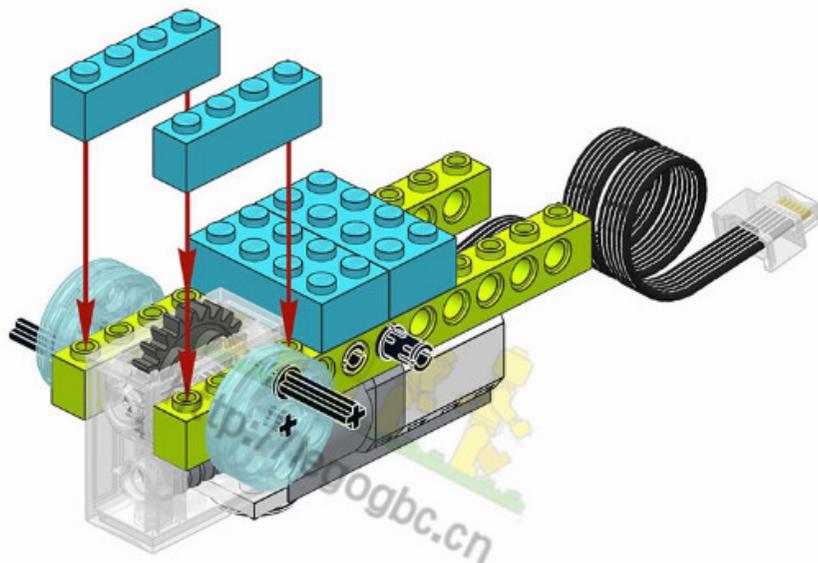
31



关注公众号获取更多

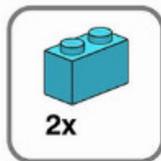


11

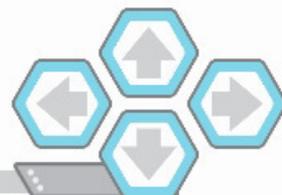
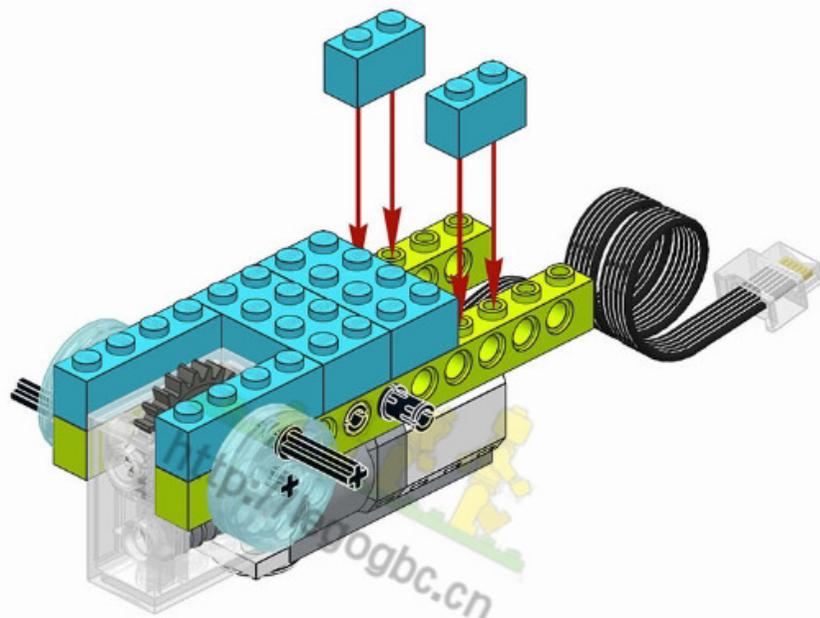




关注公众号获取更多

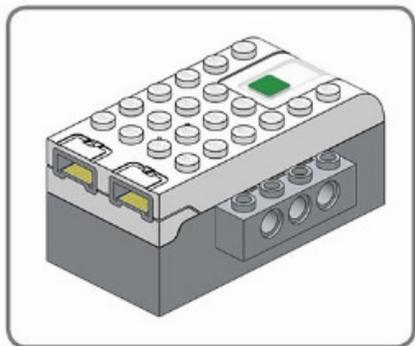


12

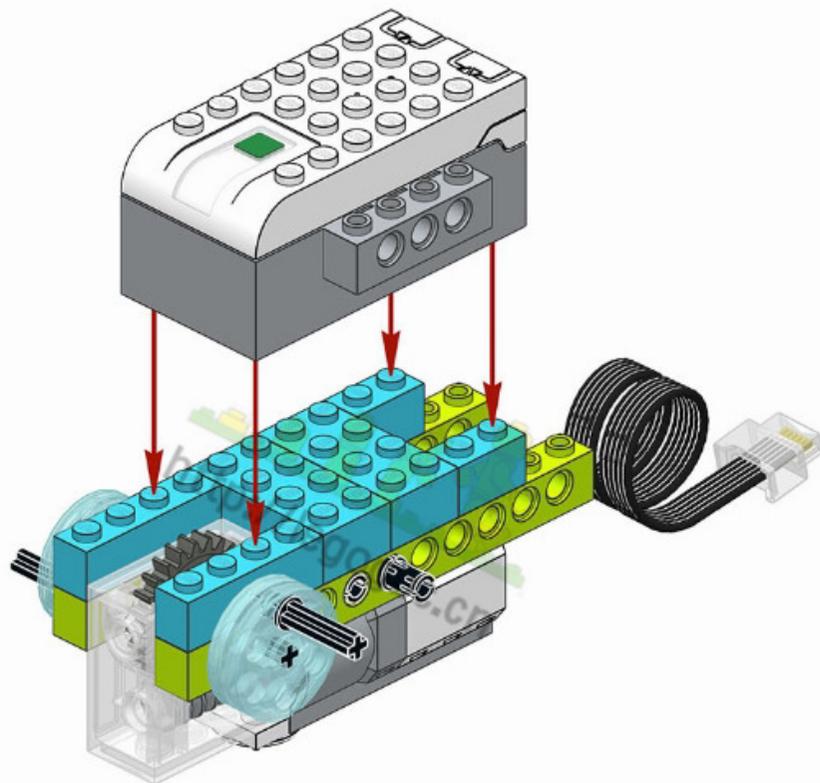




关注公众号获取更多



13

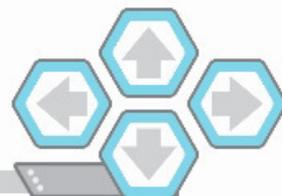


13/35



3

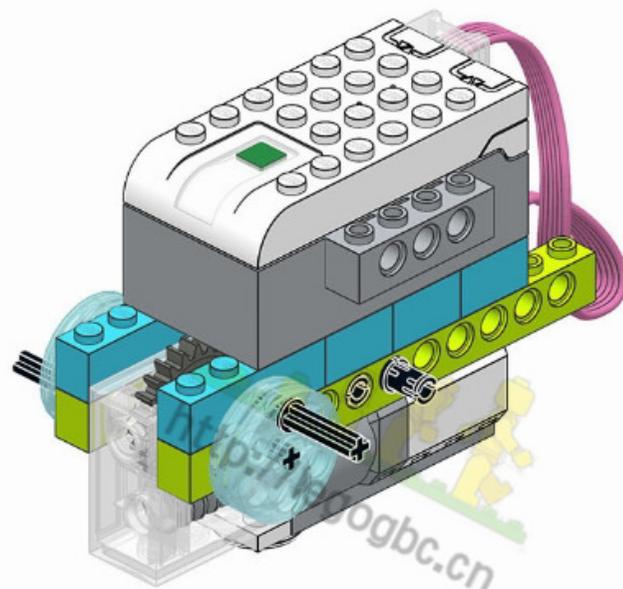
34



14



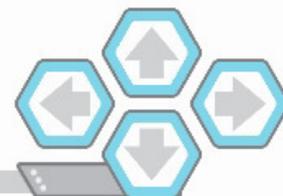
关注公众号获取更多



14/35

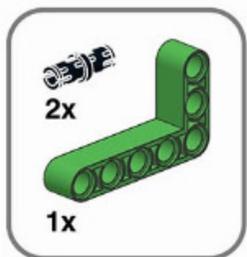
3

35

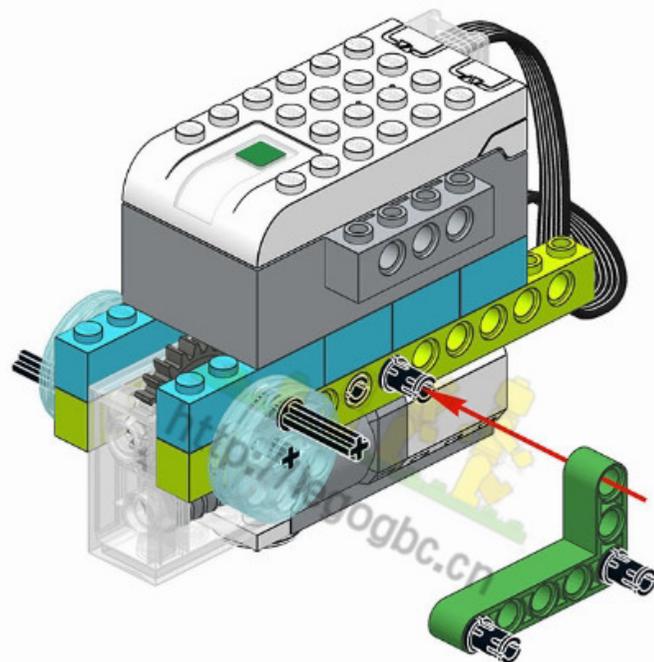




关注公众号获取更多



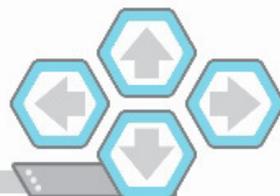
15



15/35



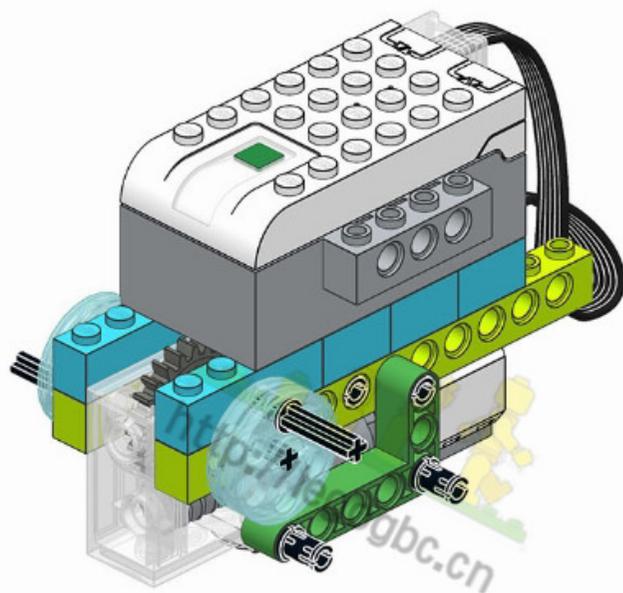
36



16



关注公众号获取更多

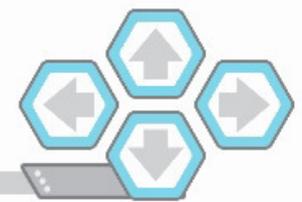


gbc.cn

16/35

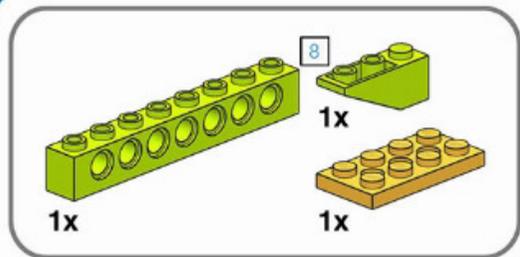
3

37

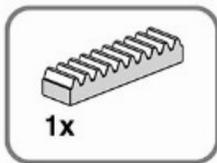
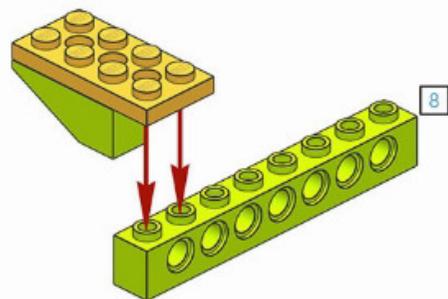




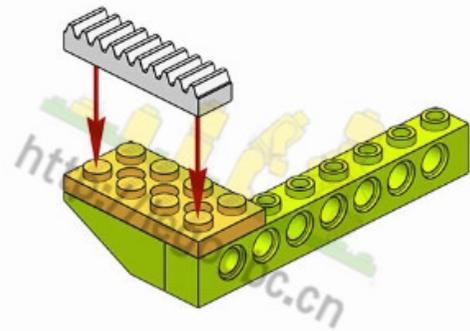
关注公众号获取更多



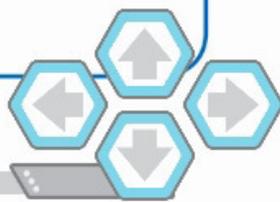
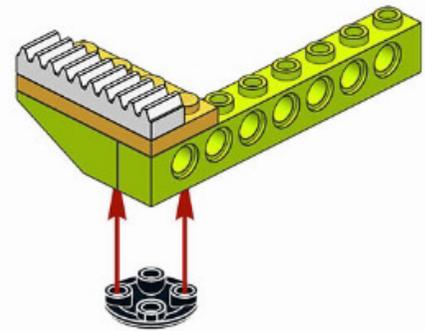
1



2



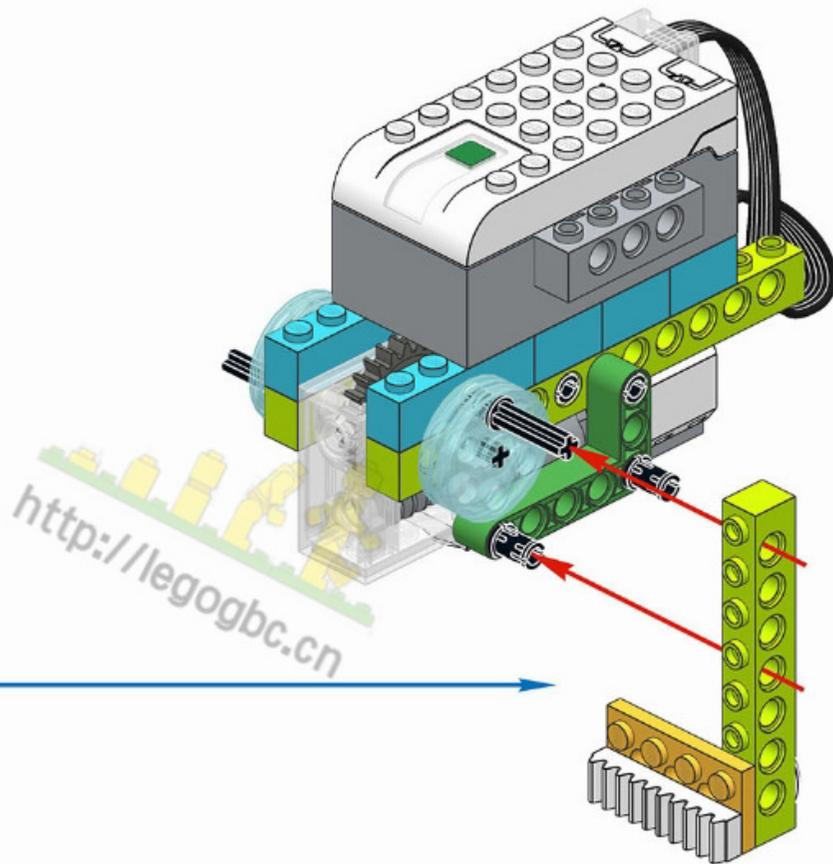
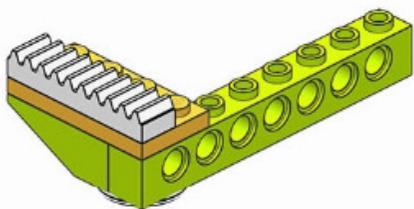
3





关注公众号获取更多

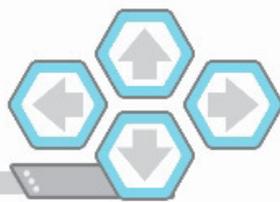
4



18/35

3

39

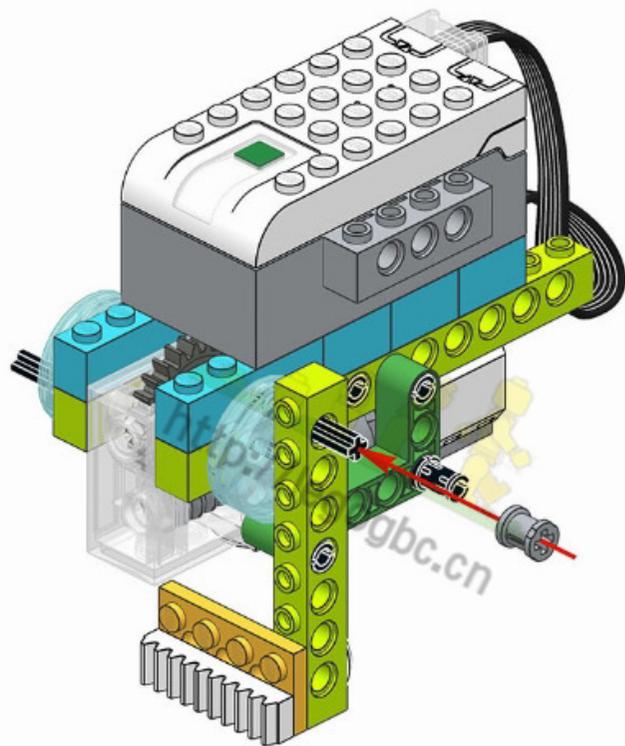




关注公众号获取更多



19

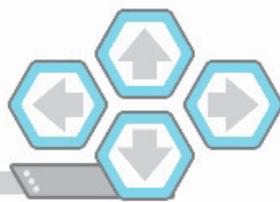


gbc.cn

19/35



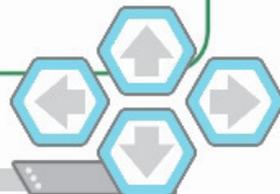
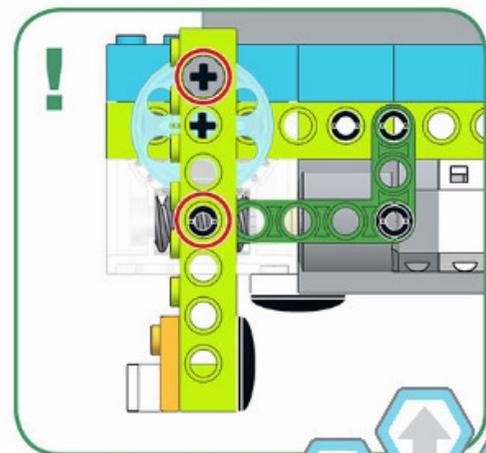
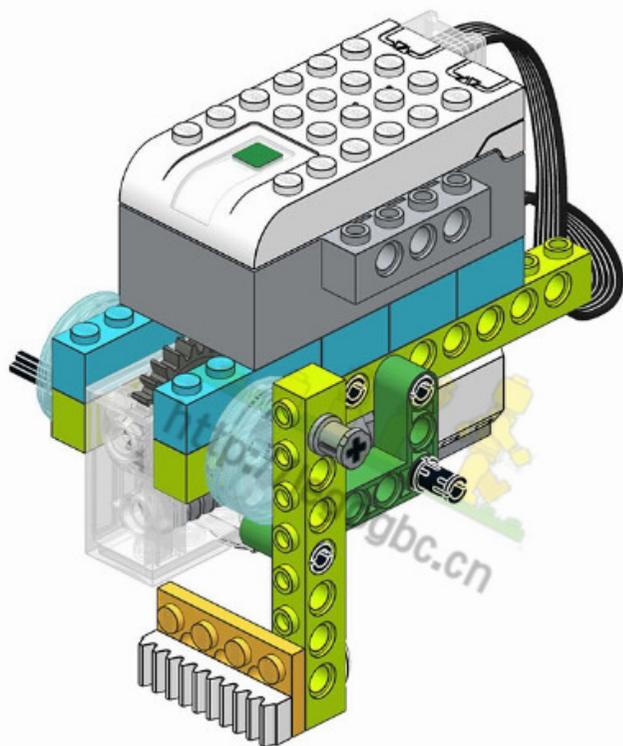
40



20



关注公众号获取更多



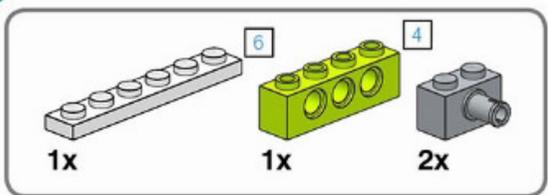
20/35

3

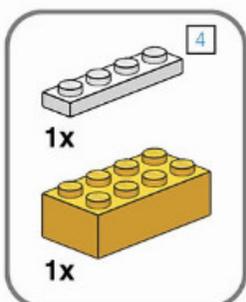
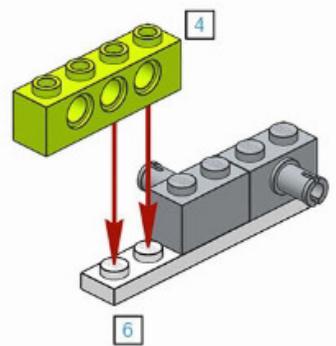
41



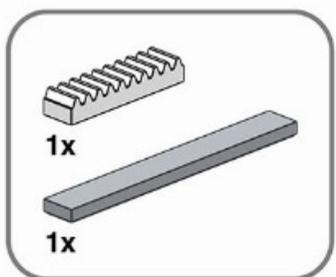
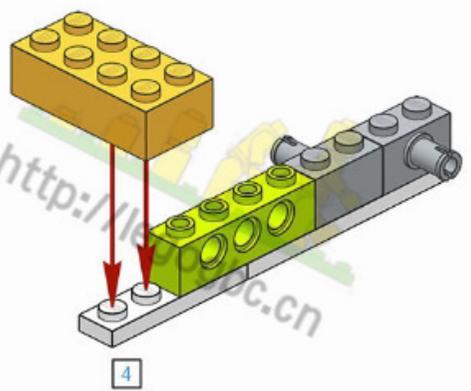
关注公众号获取更多



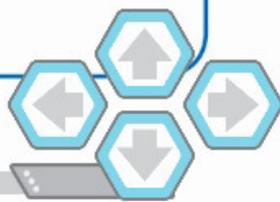
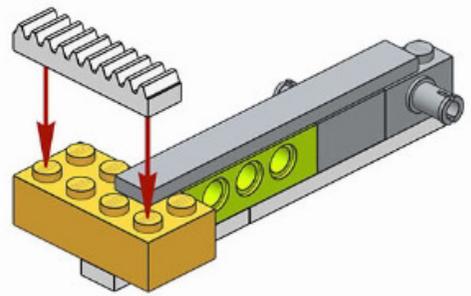
1



2



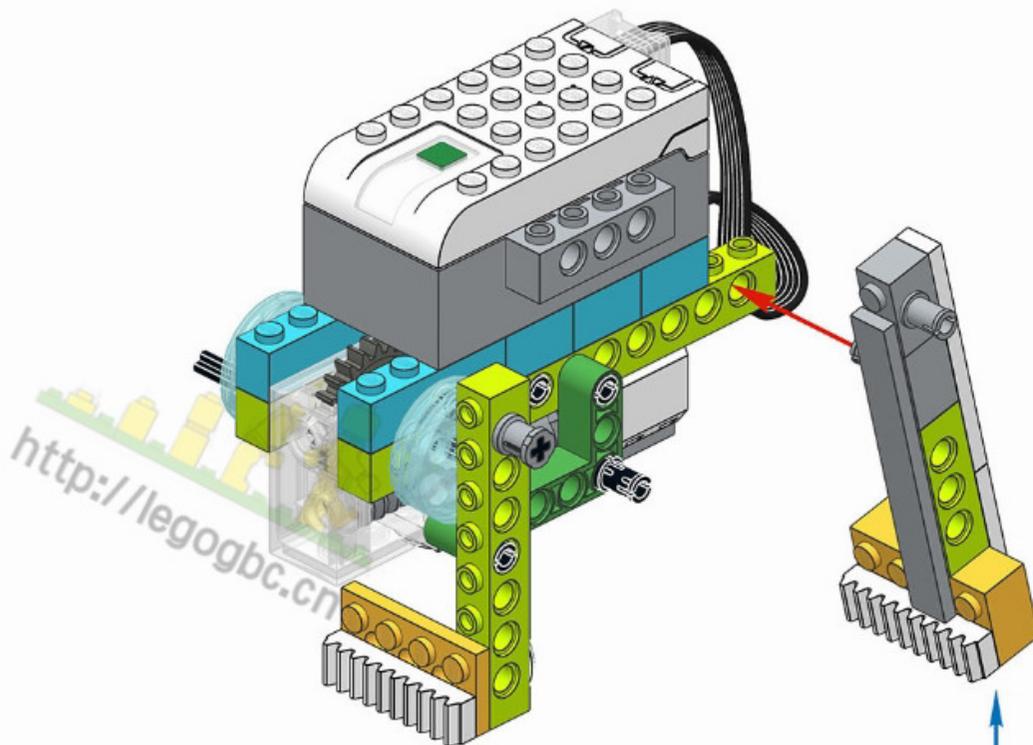
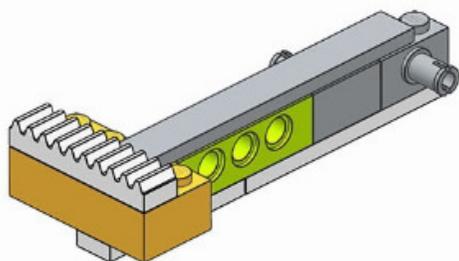
3





关注公众号获取更多

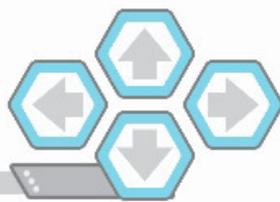
4



22/35

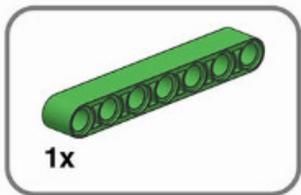
3

43



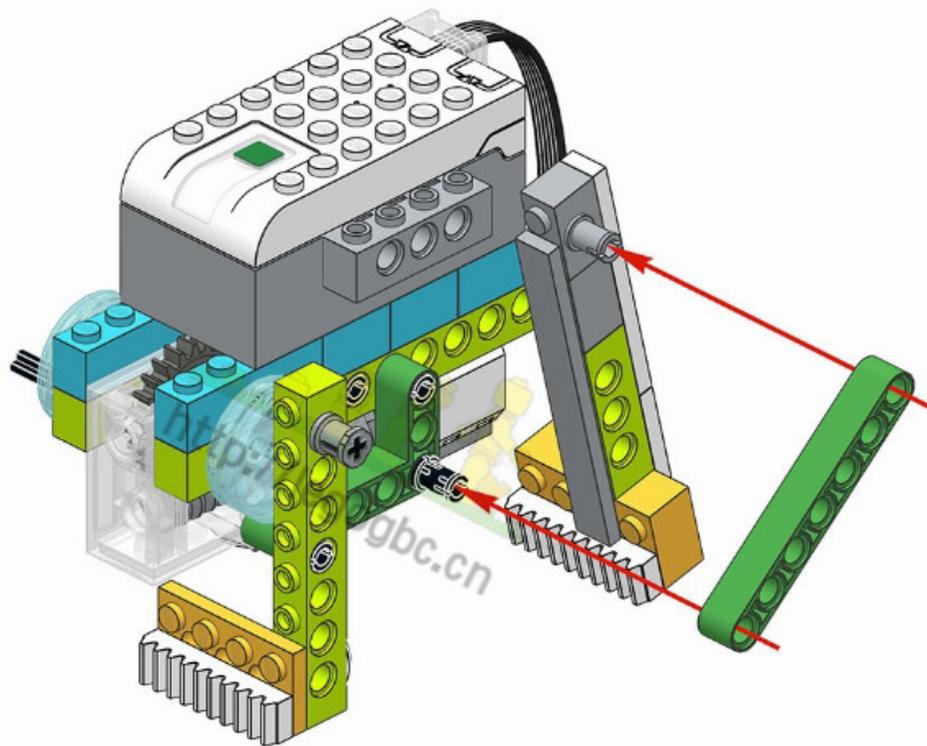


关注公众号获取更多



1x

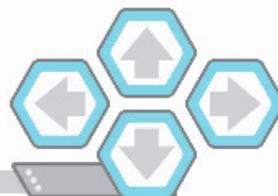
23



23/35

3

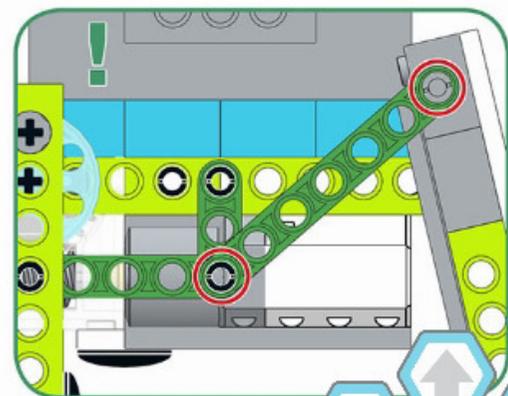
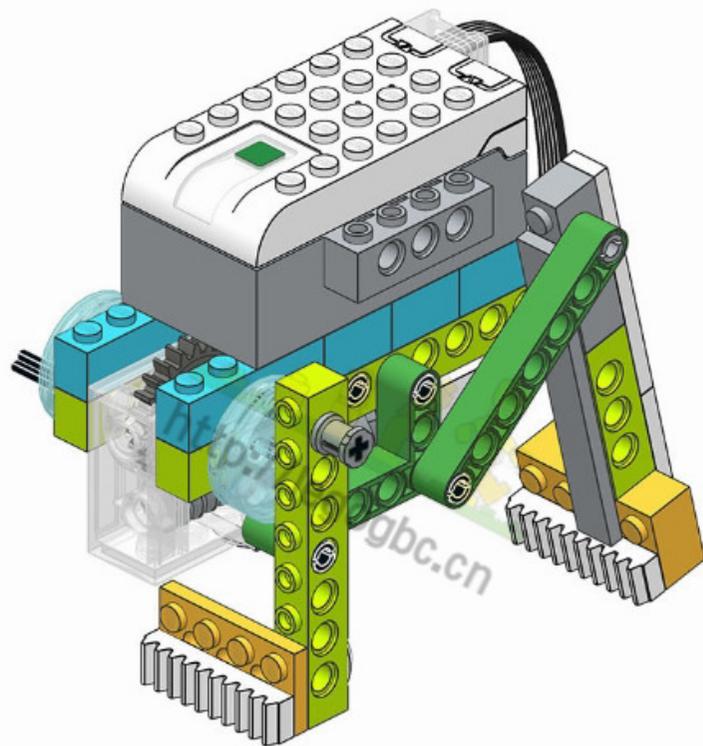
44



24



关注公众号获取更多



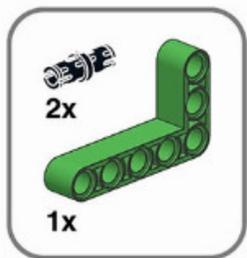
24/35

3

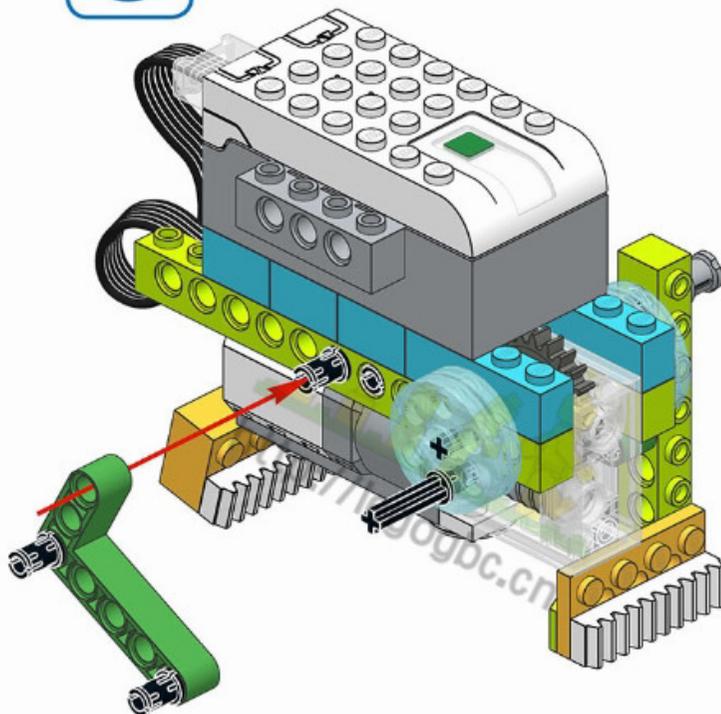
45



关注公众号获取更多



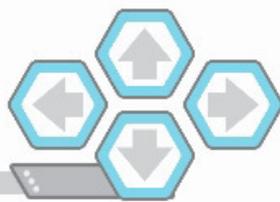
25



25/35



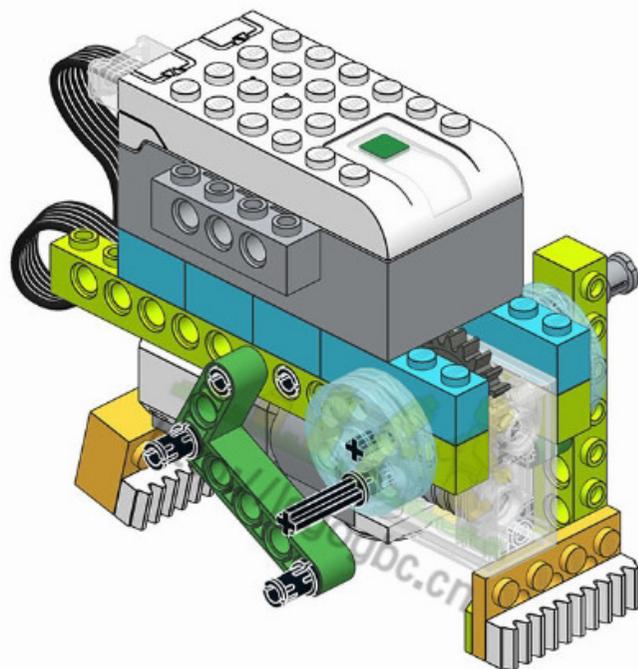
46



26



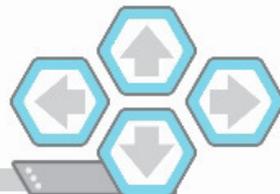
关注公众号获取更多



26/35

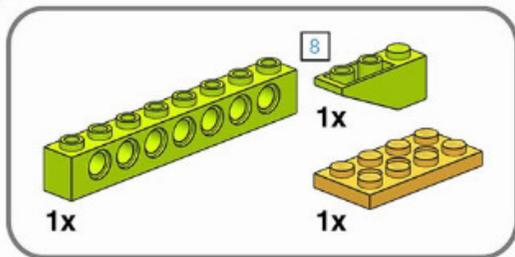
3

47

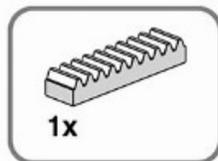
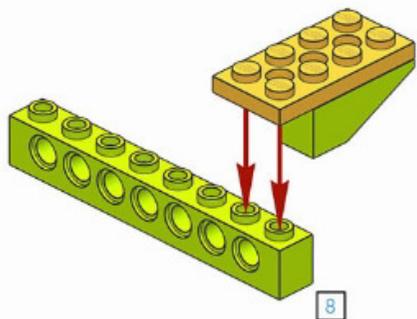




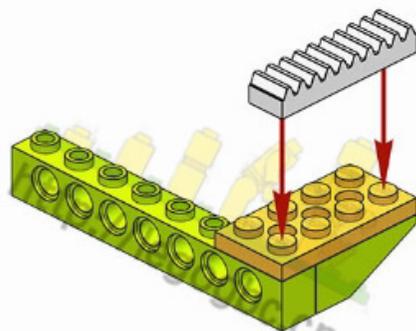
关注公众号获取更多



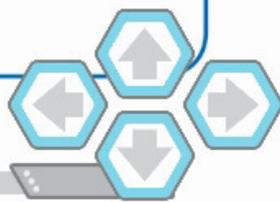
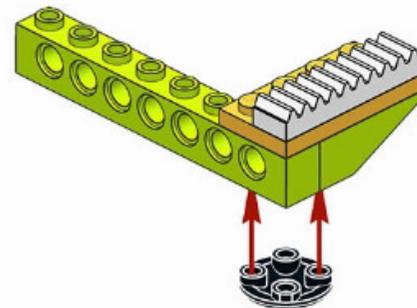
1



2



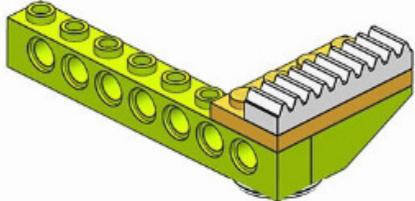
3



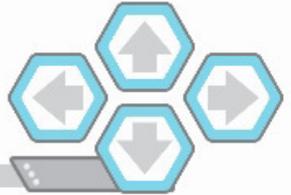
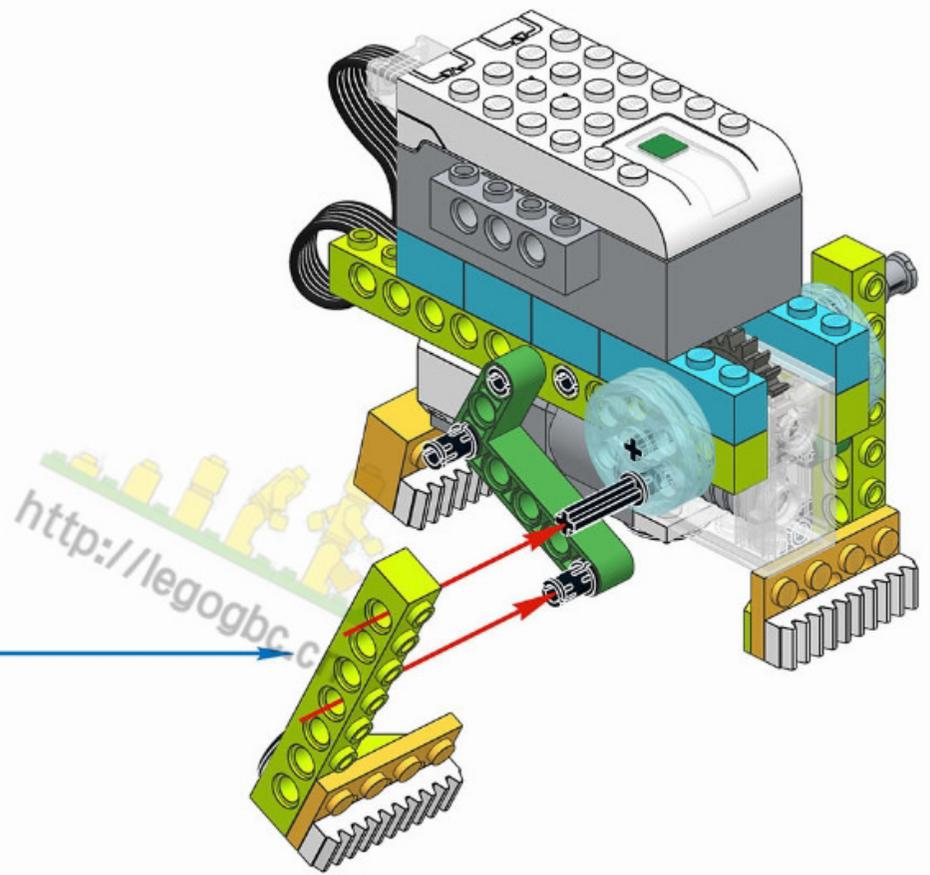


关注公众号获取更多

4



A 3D illustration of a green L-shaped LEGO Technic beam, 10 holes long and 2 holes wide. It has a grey and white connector on one end. A blue arrow points from this part towards the main assembly diagram.

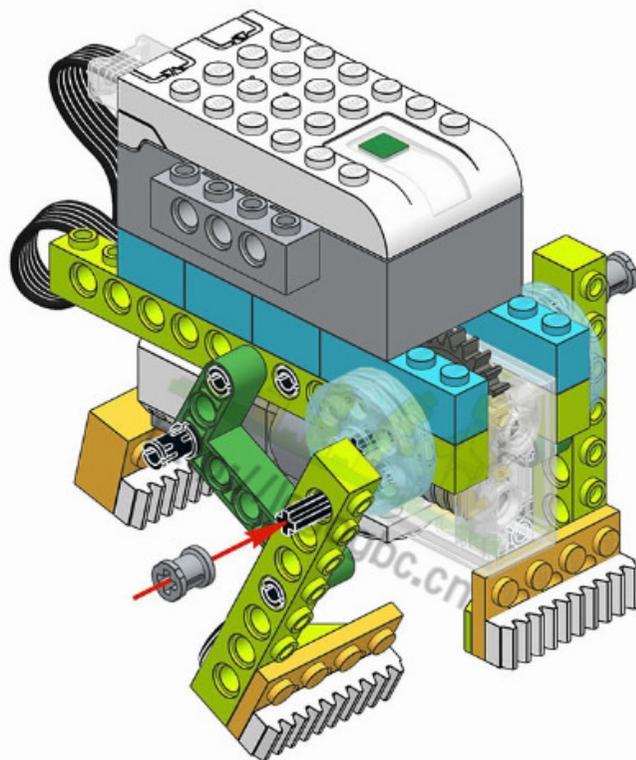




关注公众号获取更多



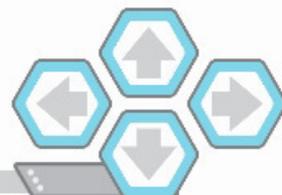
29



29/35

3

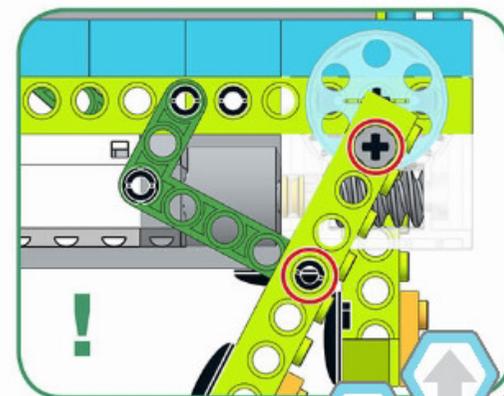
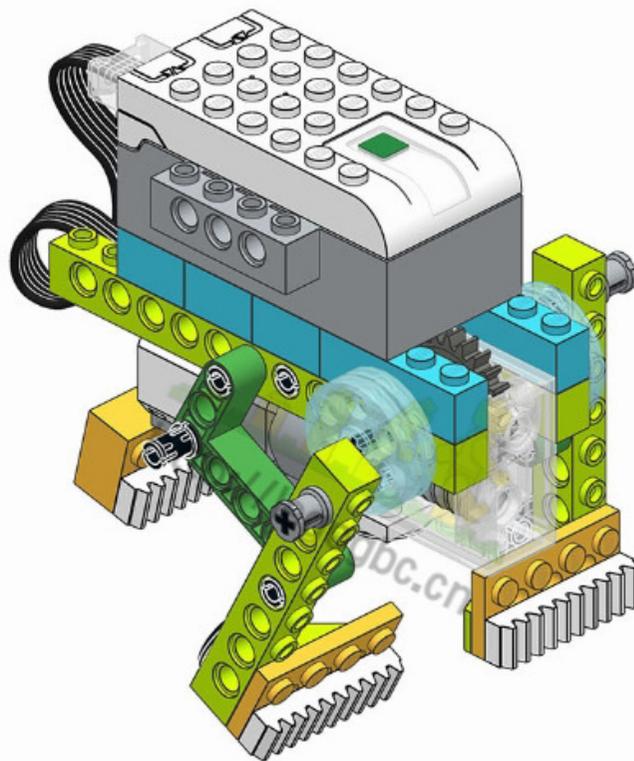
50



30



关注公众号获取更多



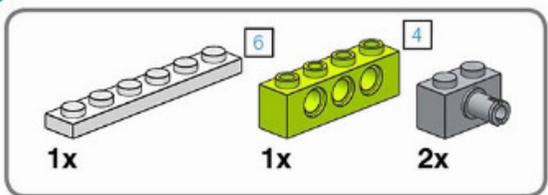
30/35

3

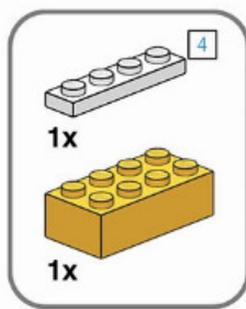
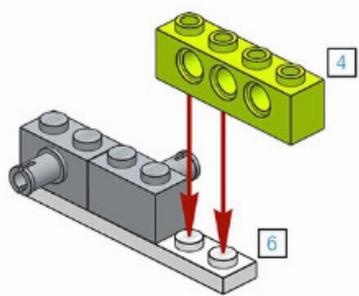
51



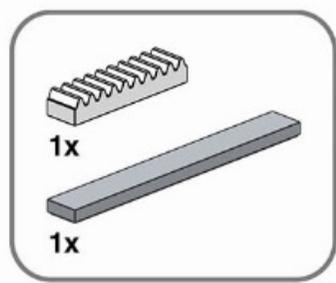
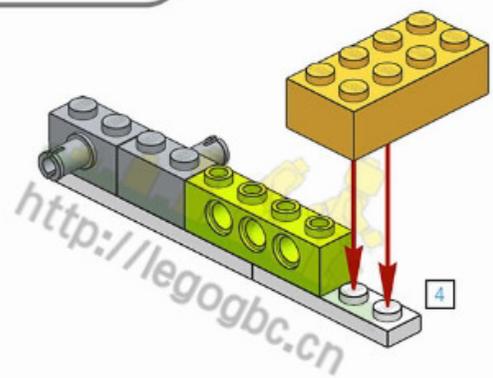
关注公众号获取更多



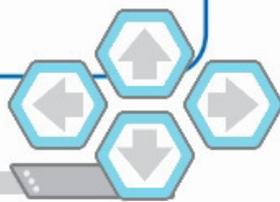
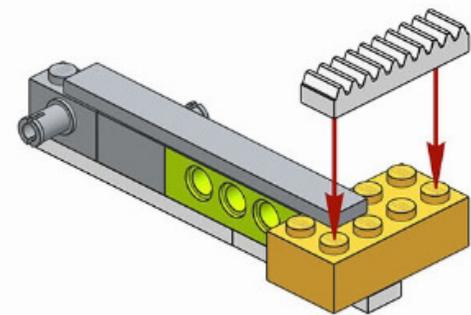
1



2

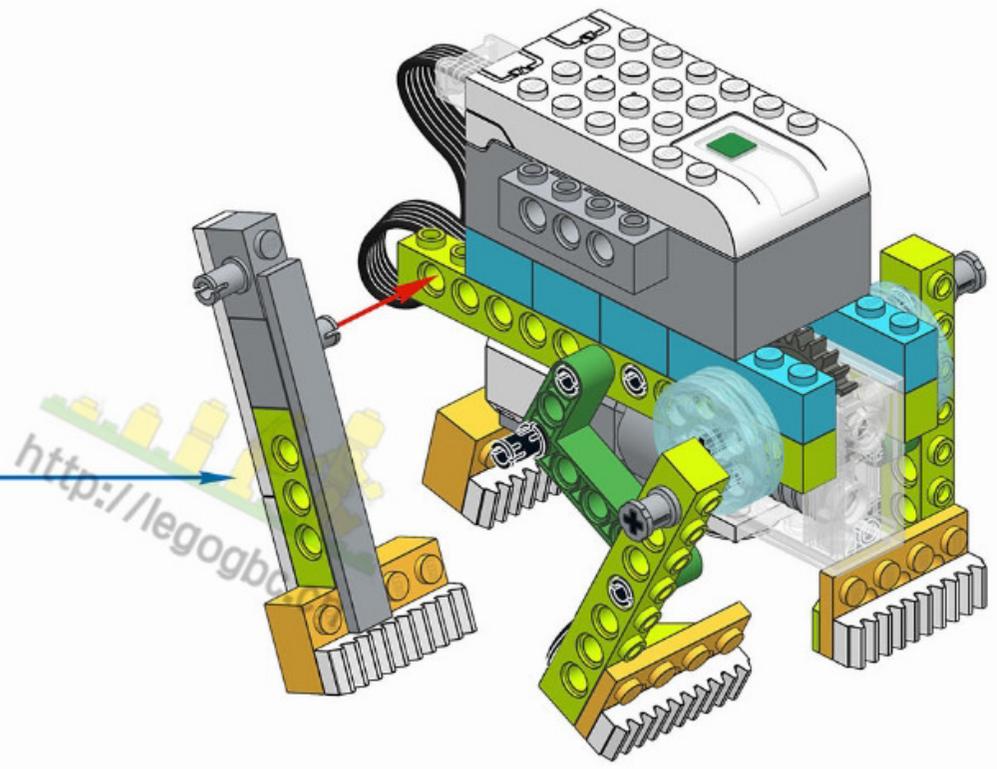
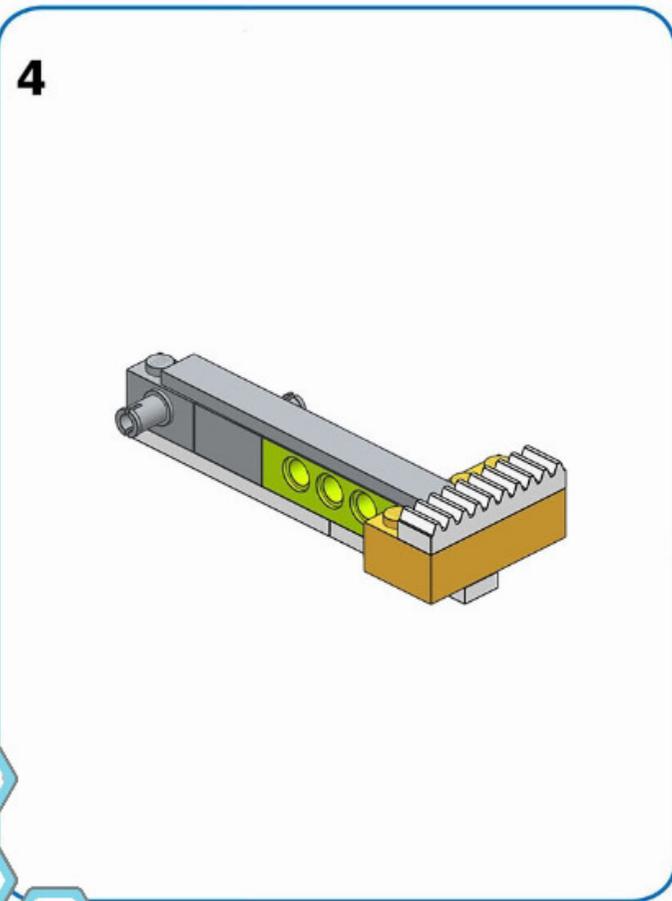


3





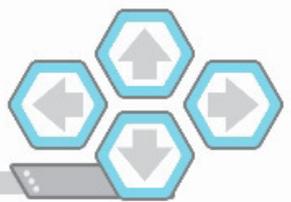
关注公众号获取更多



32/35

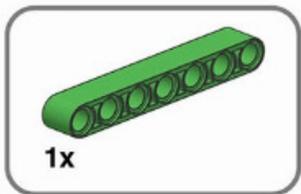
3

53

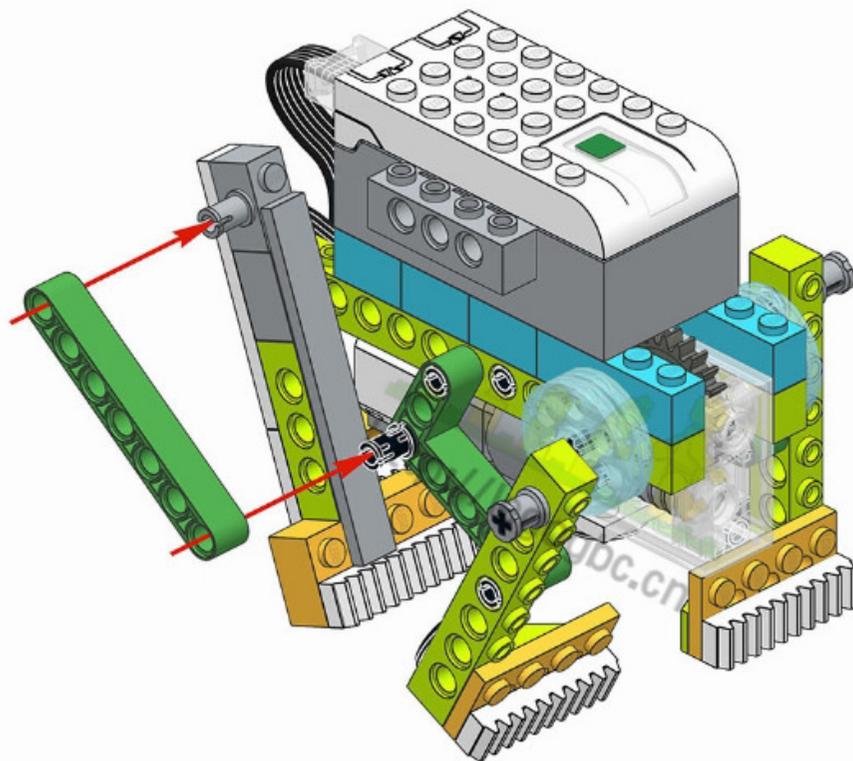




关注公众号获取更多



33

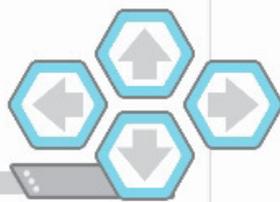


abc.cn

33/35



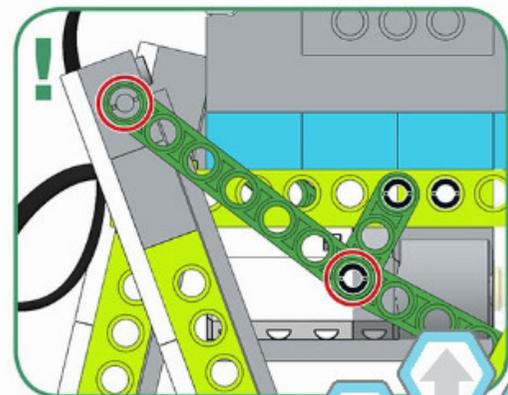
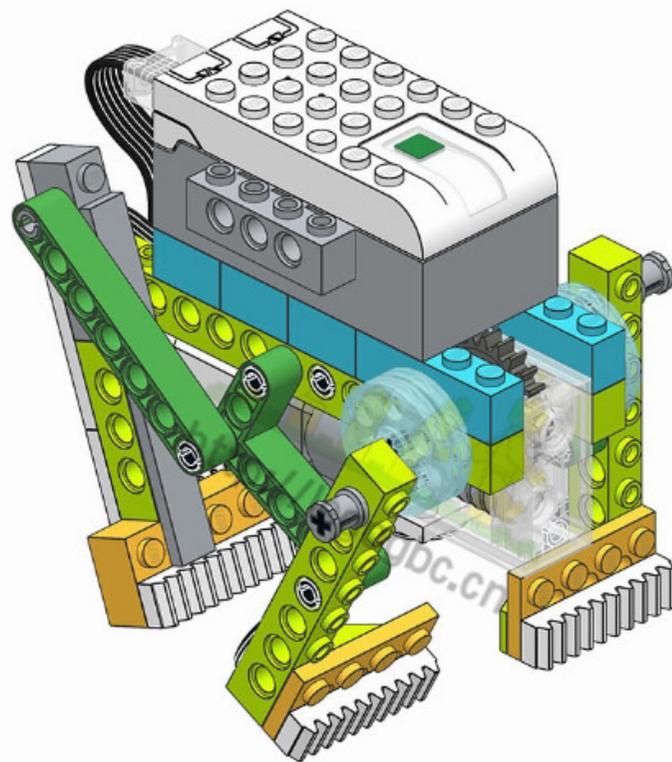
54



34



关注公众号获取更多



34/35

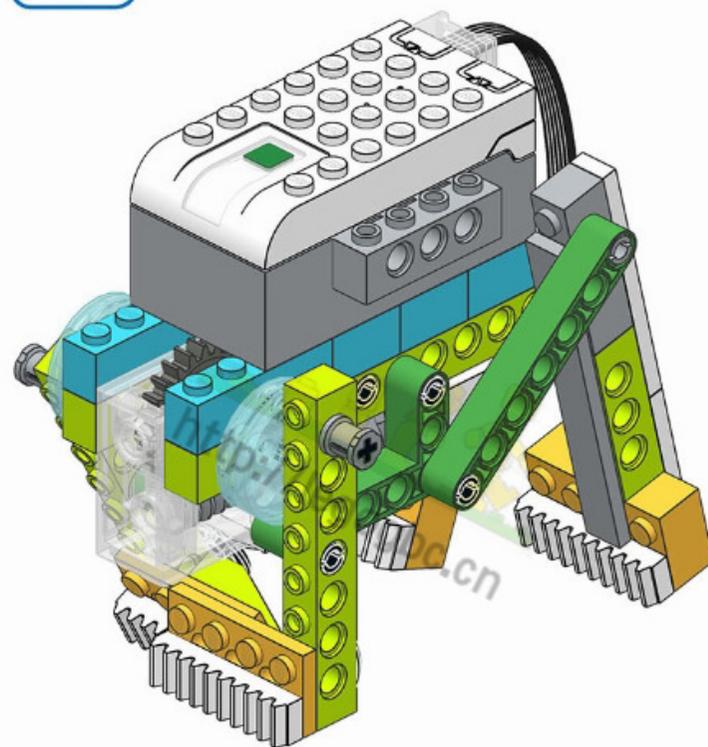
3

55

35



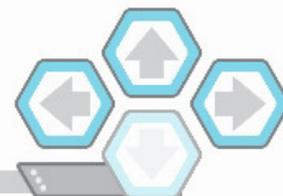
关注公众号获取更多



35/35

3

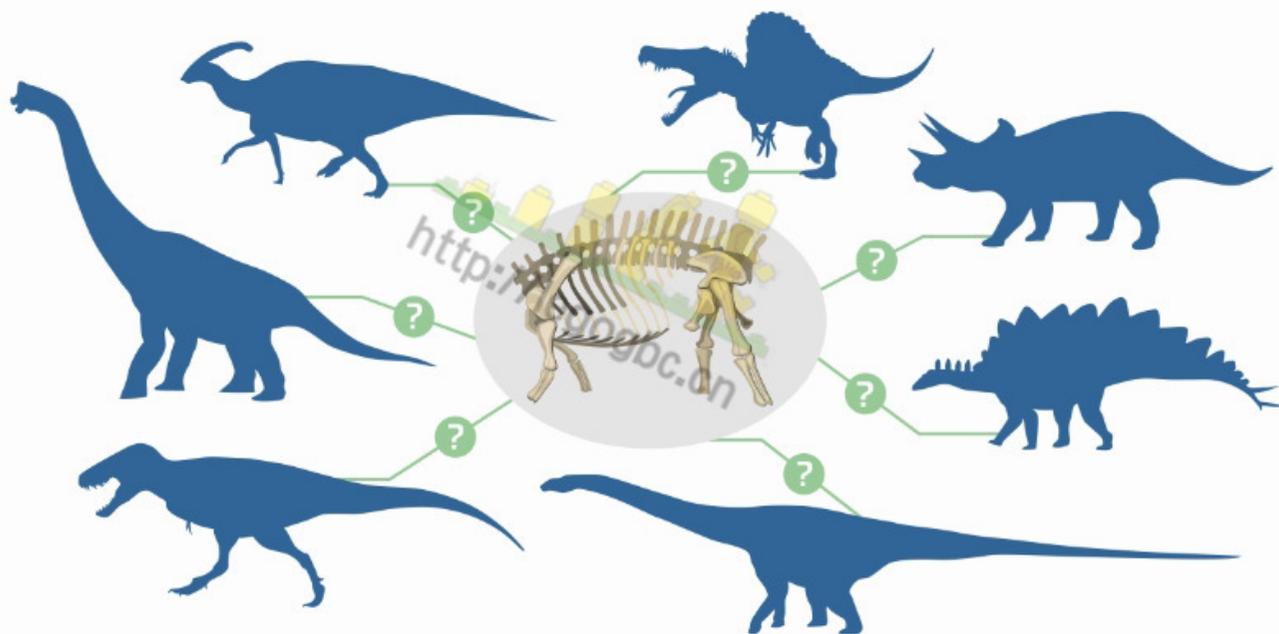
56





Task

Who was your found dinosaur? Build the robot's torso so that it is as close as possible to your drawing.

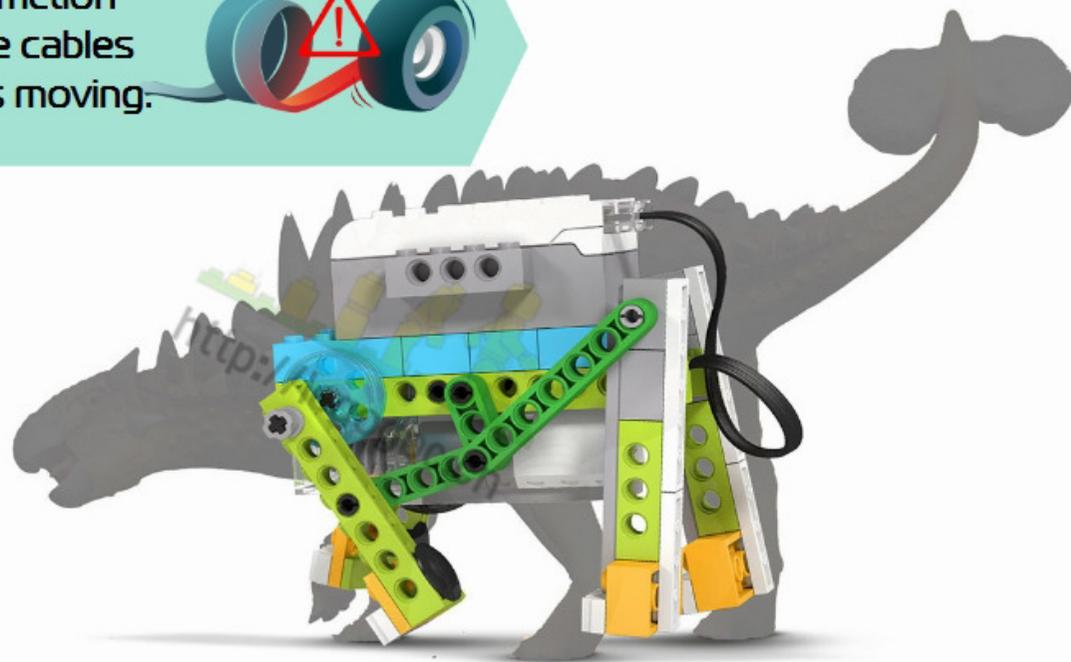


关注公众号获取更多



Check it out!

Avoid any friction
between the cables
while robot is moving.



关注公众号获取更多





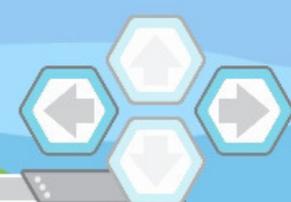
Discuss!



关注公众号获取更多



What is your dinosaur called?
What did it eat? Who were its neighbors?





Task 1

Test your built robot. Program the robot's movement for 10 seconds. Does the mechanism work correctly?



roboriseit.com



关注公众号获取更多



3



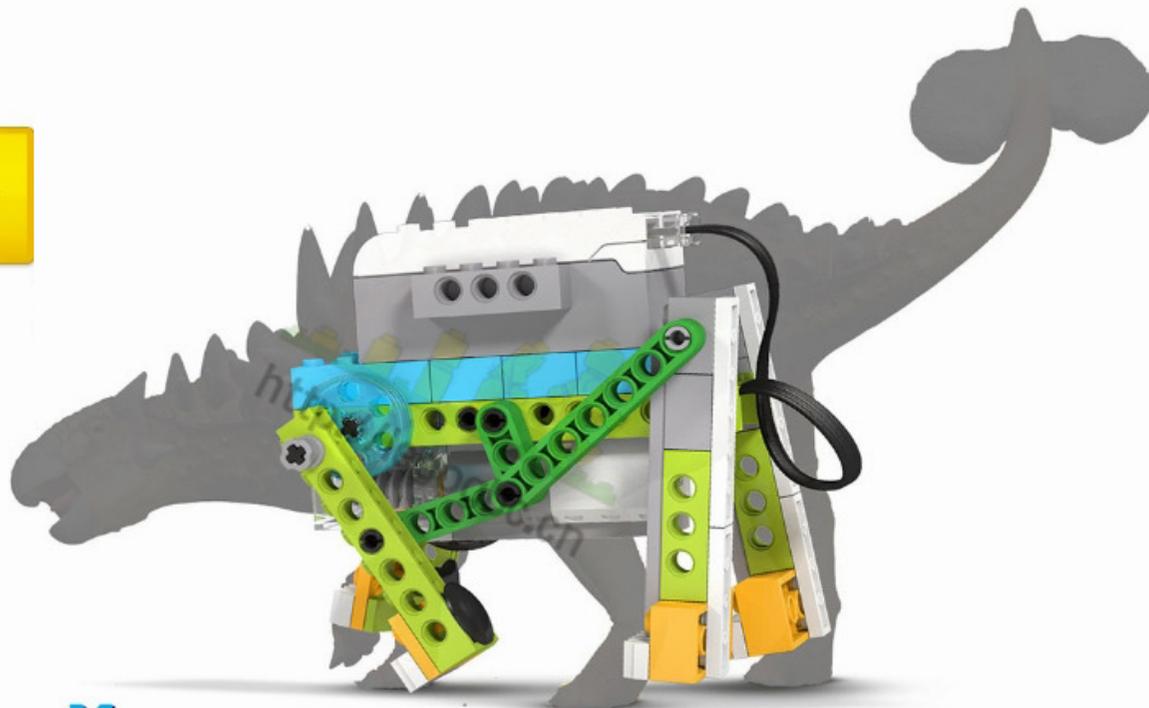
60





Task 2

Write a program for your robot that would reproduce the behavior of a real dinosaur.



Dino-X



关注公众号获取更多



3



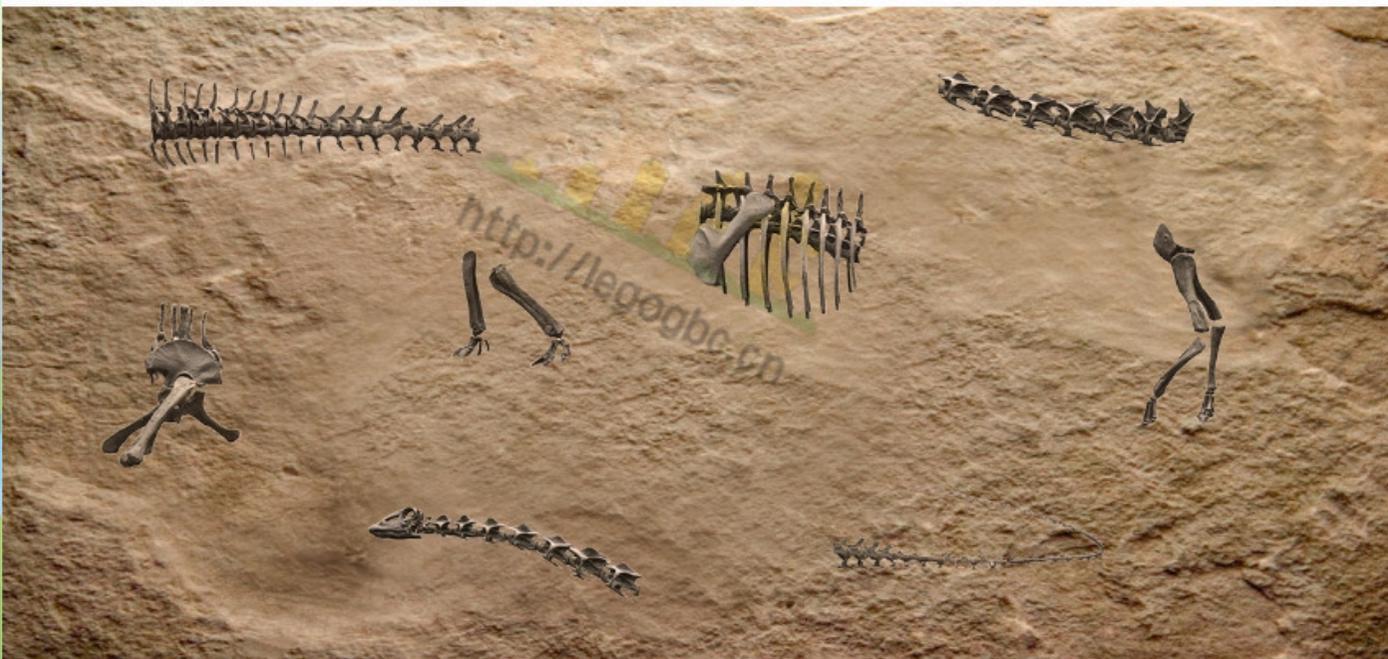
61





Task 3

Conduct excavations and compile the found parts of the skeletal dinosaur. Which of the five groups of known dinosaurs you can include it? Click on the area to clear it.



关注公众号获取更多



3



62





关注公众号获取更多



Task 3

To which of the five known groups you can refer the folded skeleton? Drag it to the group image.



THEROPODS



SAUROPODS

DINOSAURS

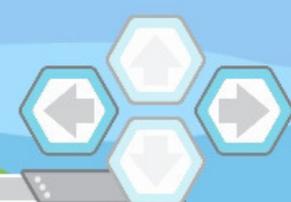
STEGOSAURUS



ORNITHOPODS



CERATOPS





Task 4

Conduct excavations and fold the found parts of the skeletal dinosaur. Which of the five groups of known dinosaurs you can include it? Click on the area to clear it.



关注公众号获取更多



3



64





Task 4

To which of the five known groups you can refer the folded skeleton? Drag it to the group image.



THEROPODS



Sauropods

Dinosaurs

STEGOSAURUS



ORNITHOPODS



CERATOPS



关注公众号获取更多



3



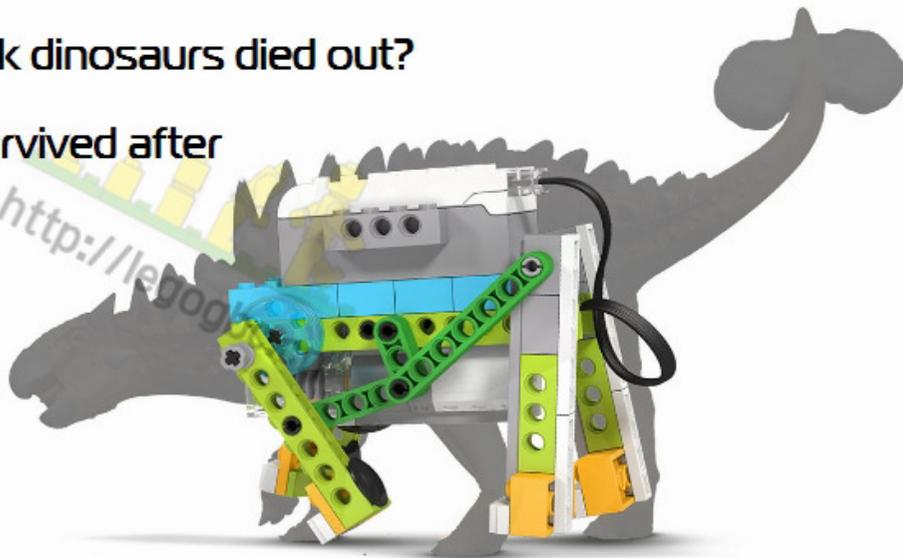
65





Discuss!

- ▶ What does Paleontology study?
- ▶ Who was your found dinosaur?
- ▶ When could your dinosaur live?
- ▶ Why do you think dinosaurs died out?
- ▶ What animals survived after the cataclysm?



关注公众号获取更多



4



68

