17.Funny cat

1.Introduction

Have you ever had a pet? Dog, cat or goldfish…
Cats are one of the most popular pets in the world.



1.Introduction

What do you know about cats?

For example, they like to catch mice an
to eat fish.

They walk so lightly that we can't even hear
its footsteps.



2.Exploration



Cats walk without sound because of its special foot structure.

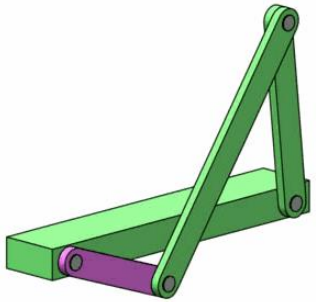
The pads on the soles of cats' feet are thick, cushioning, and highly elastic.

2.Exploration

What parts do we use for cat paws?

The tires simulate cat paws, so walking is very quiet.





A crank-rocker mechanism that simulates a cat's leg structure.

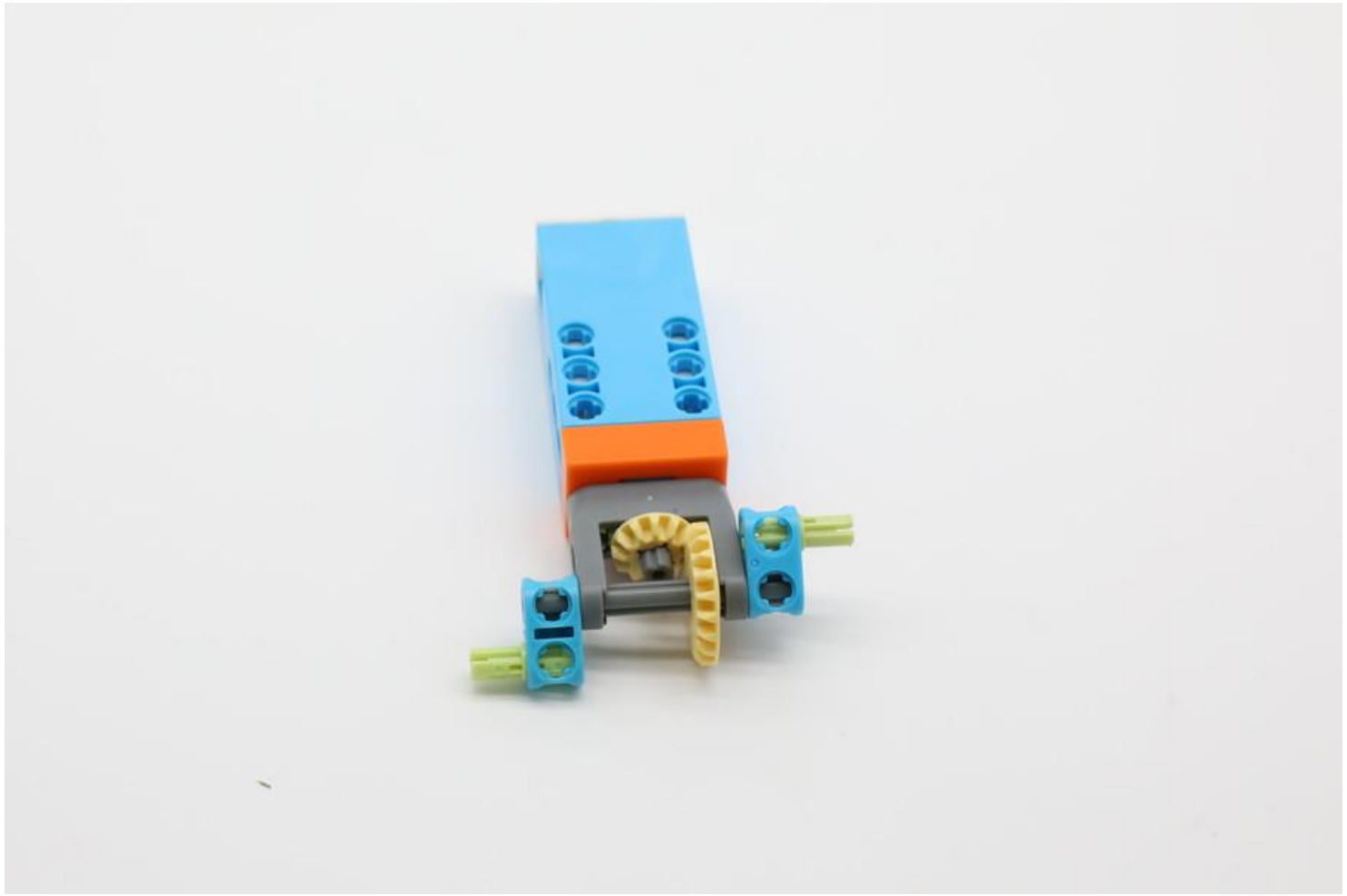
3.Construction

Today we will learn the transmission of bevel gears.

Although they are not on the same dimension, they can still drive well.



3.Construction



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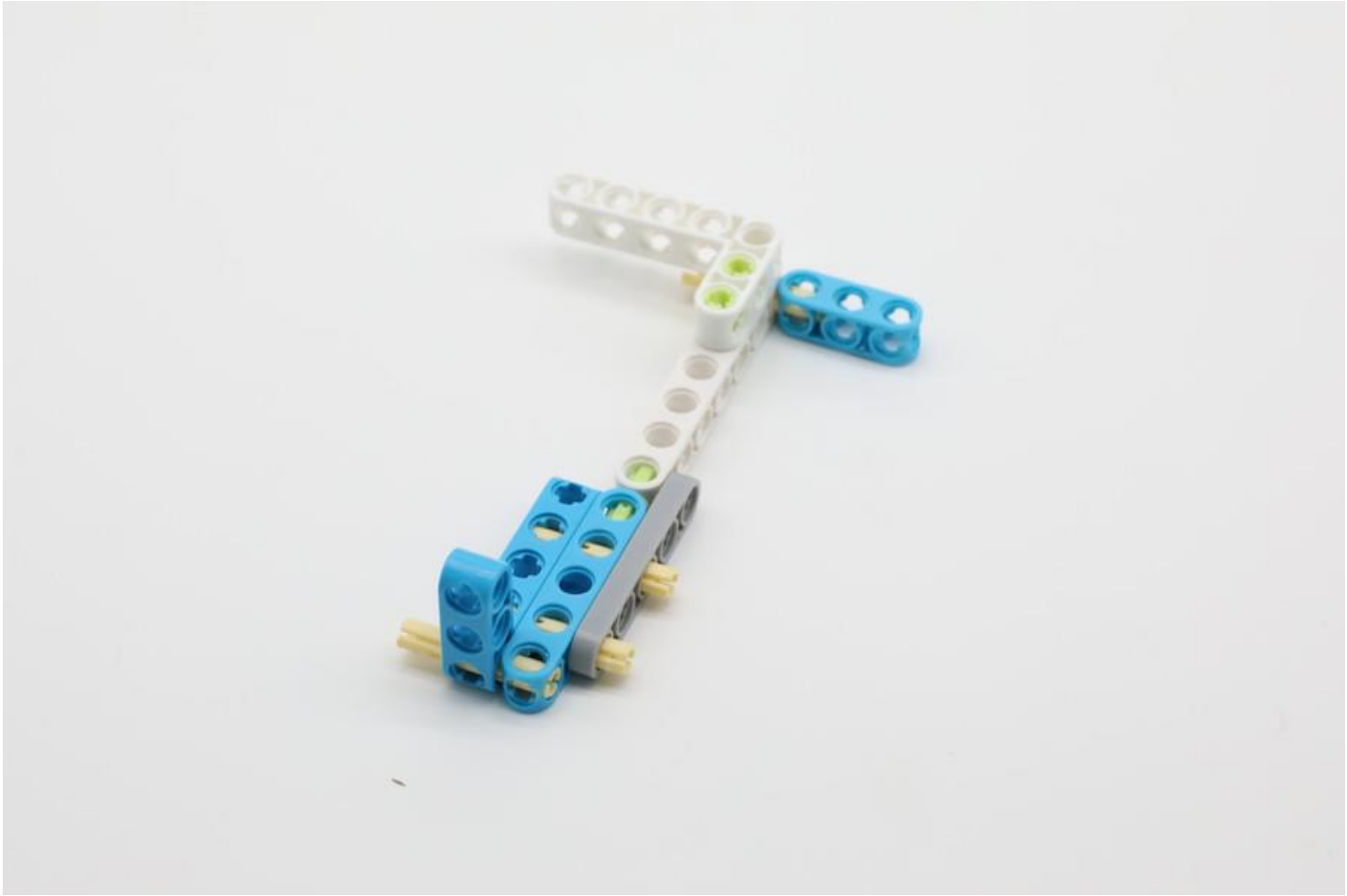

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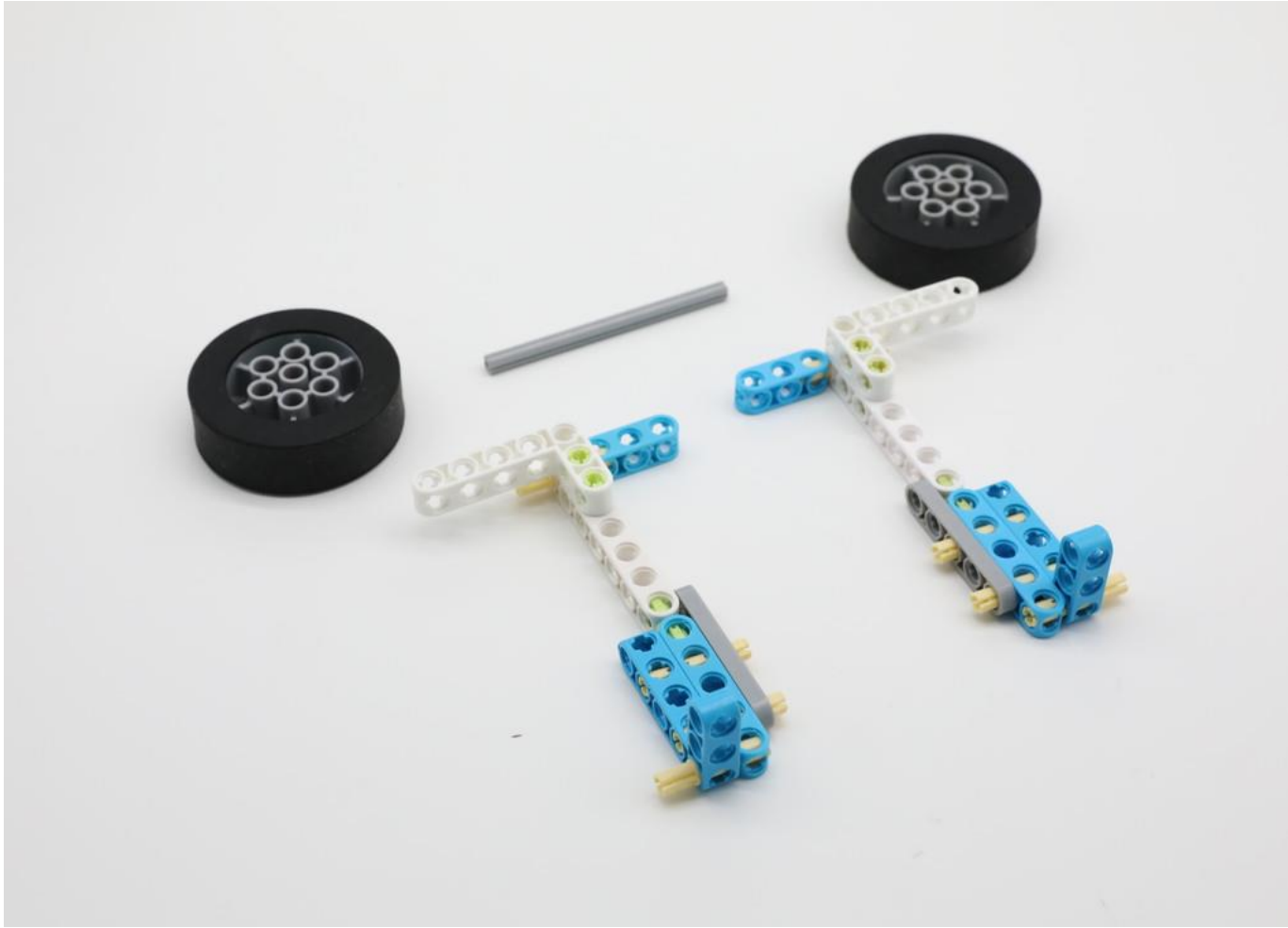

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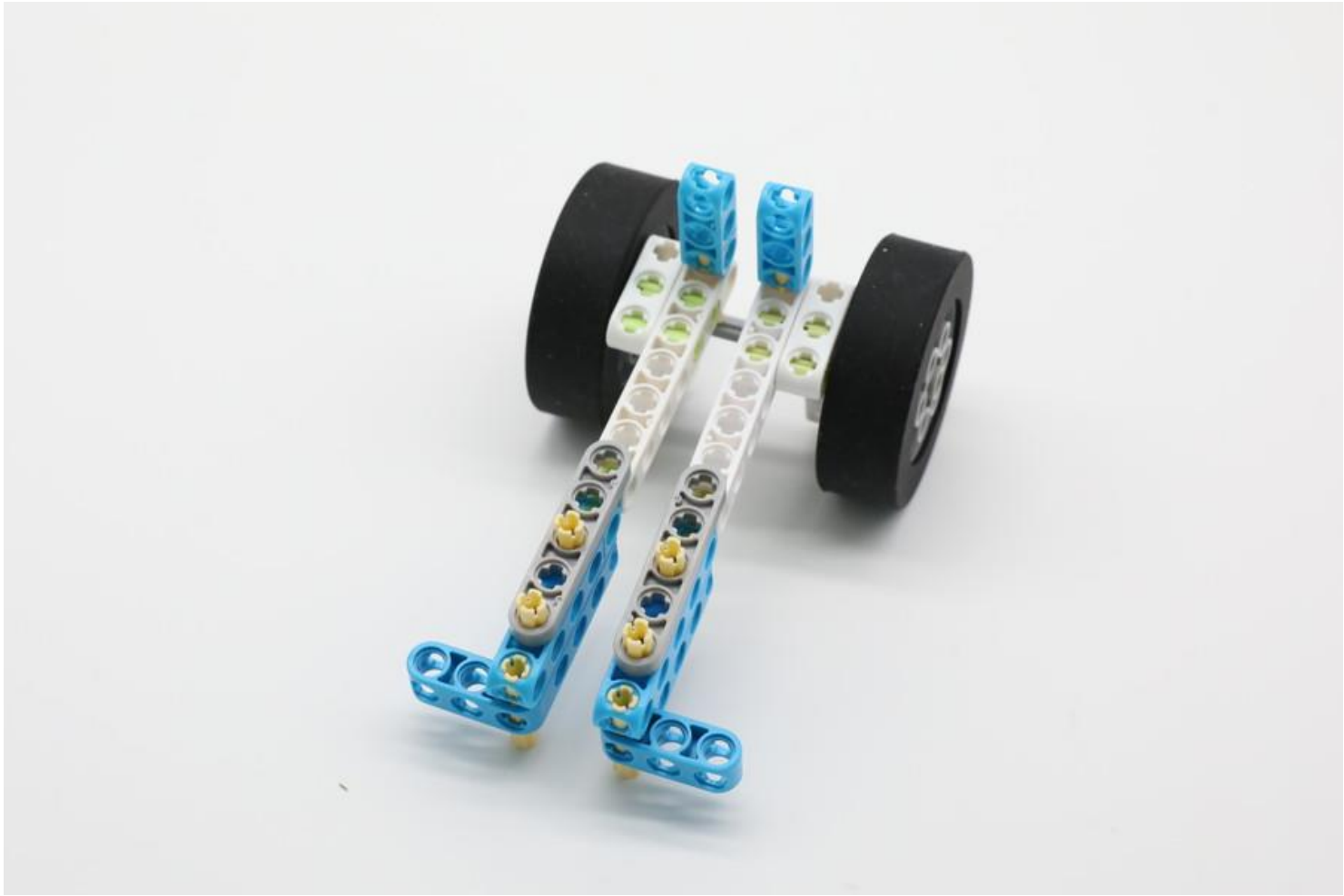

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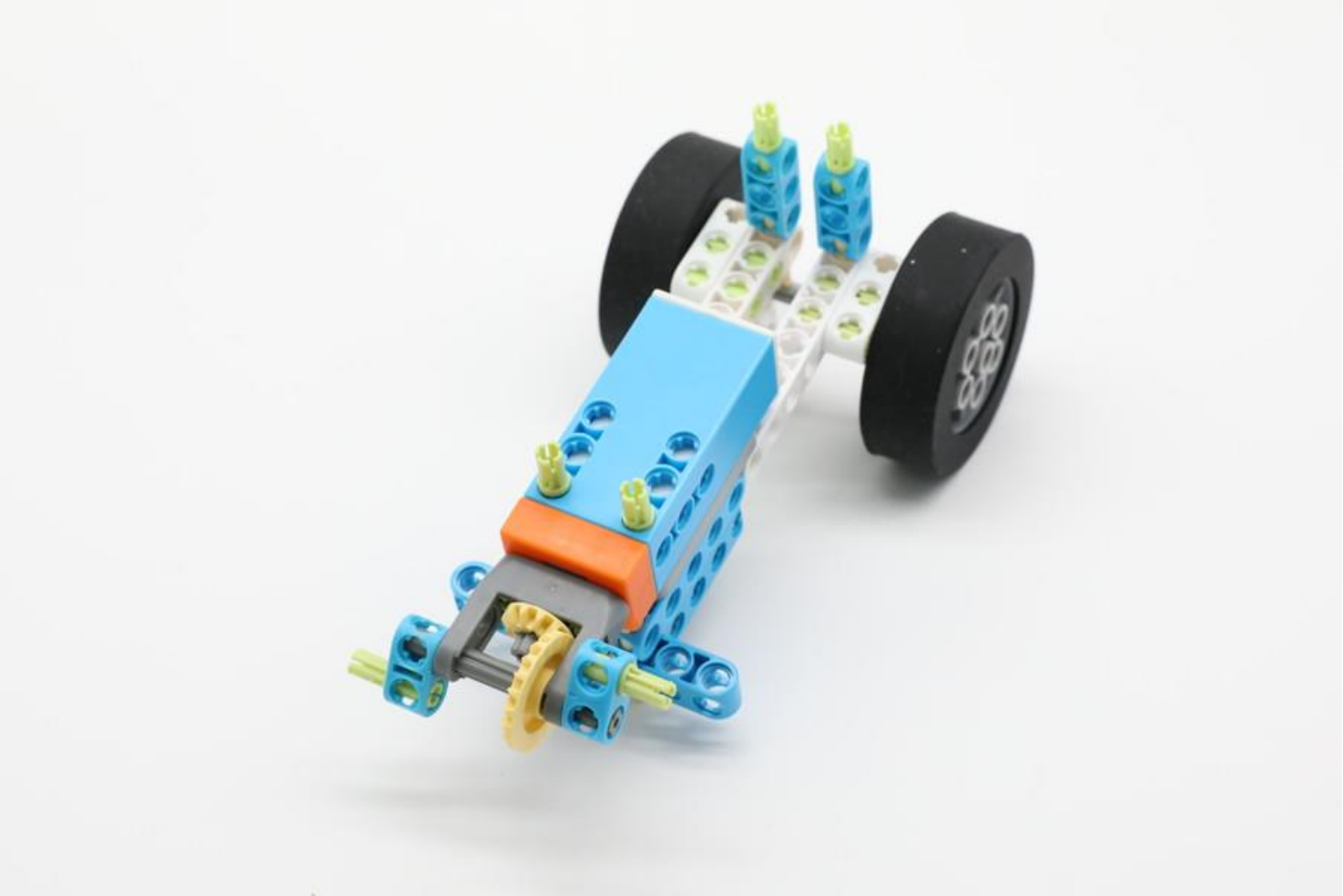

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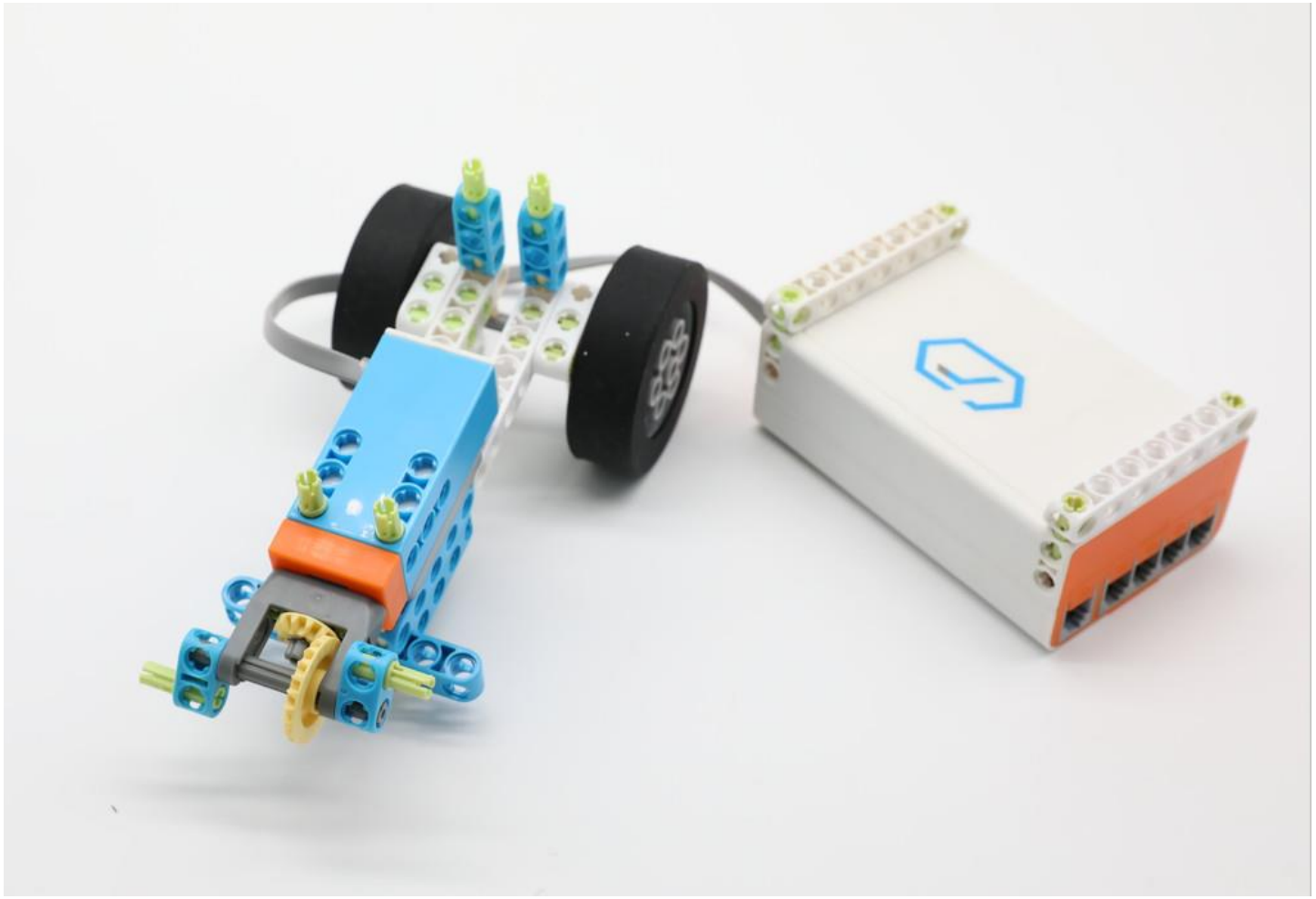

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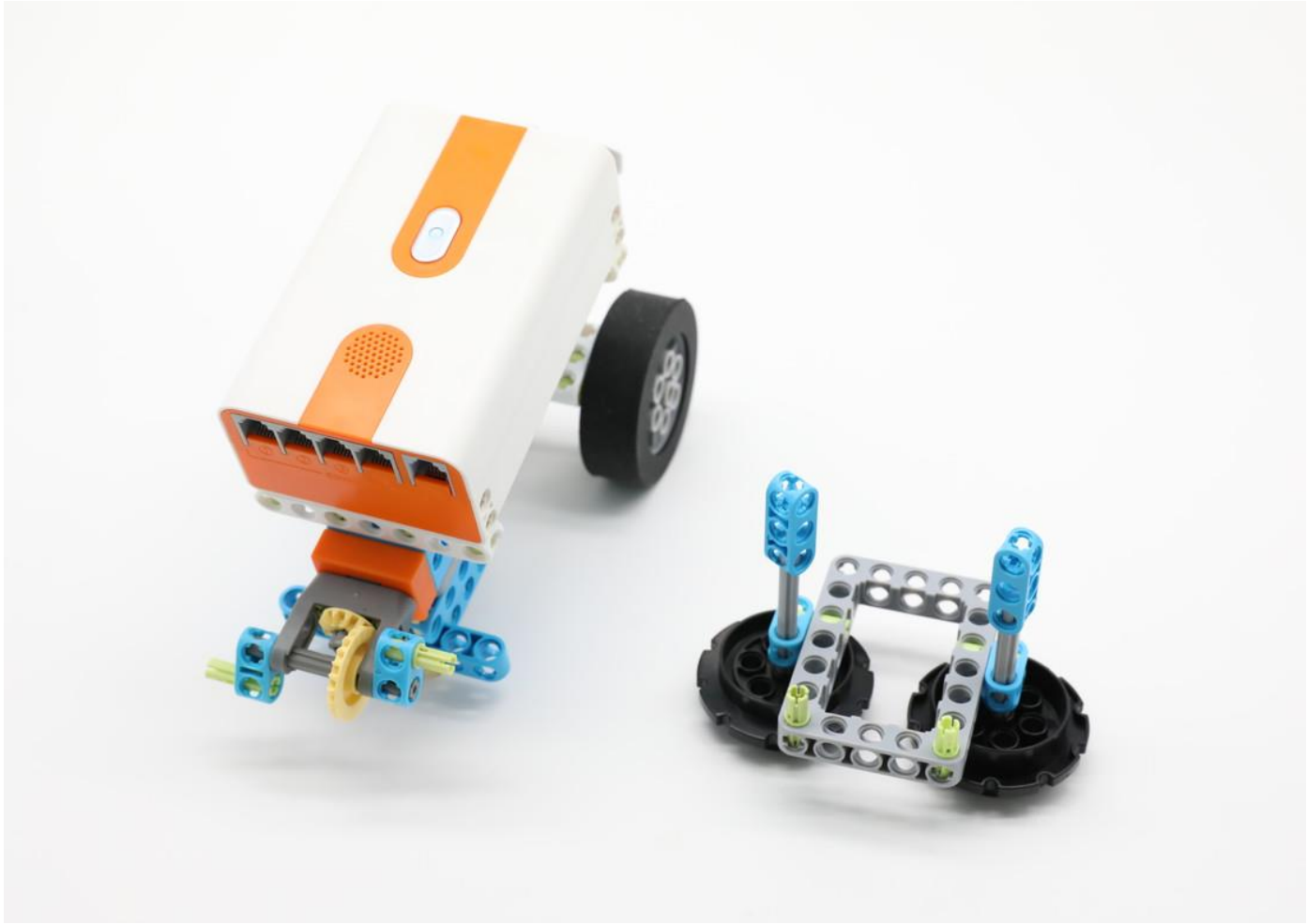
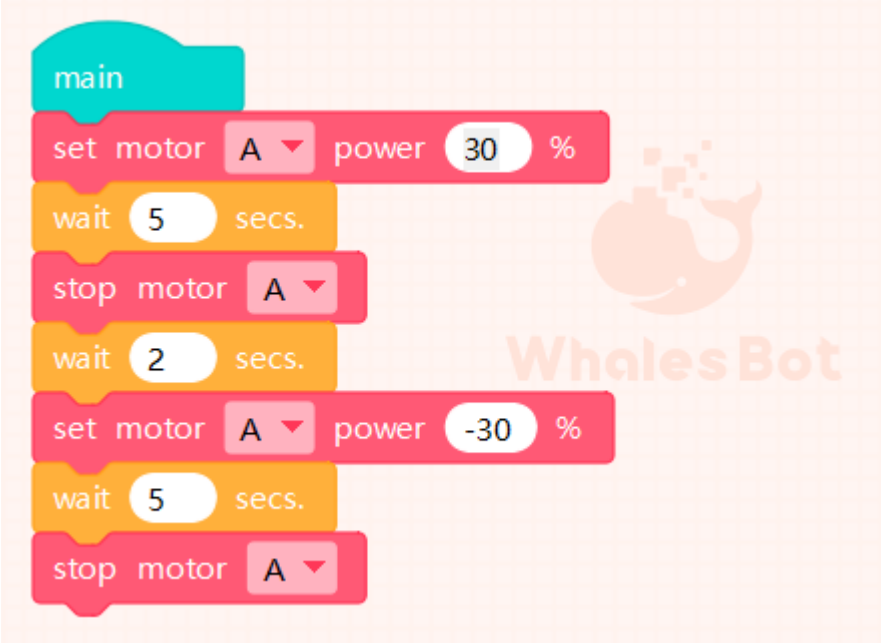


3.Construction



4.Coding

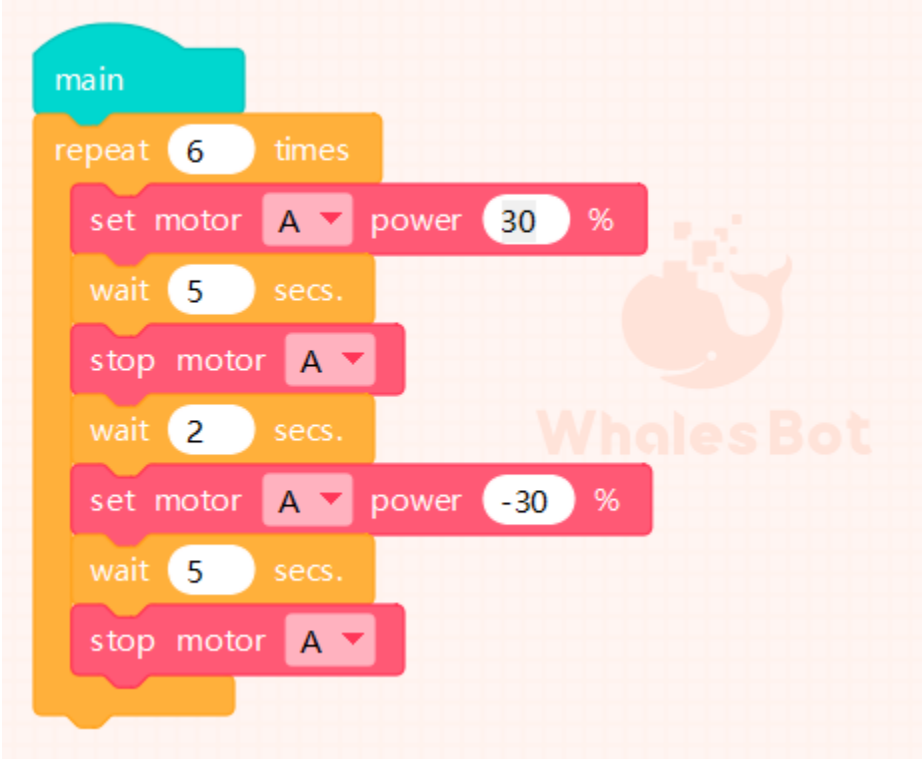


Task 1:

The kitten moves forward a few seconds and then go backwards a few seconds.



4.Coding



Task 2:

On the basis of task 1, repeat the above actions for six times.



5.Evaluation

Why do cats walk without sound?

A. Their paws have thick pads

B. They cannot walk



5.Evaluation

Do you still remember what mechanical mechanism you learned today?

1. Crank-rocker mechanism

2. Intersected axis transmission of bevel gears



6.Challenge



Add an Infrared Sensor to the cat.

Then program it to back off when it encounters danger.