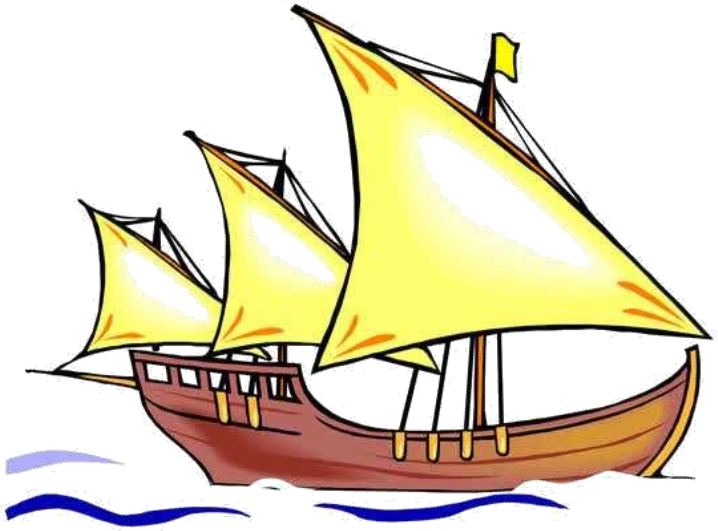
24.Sailboat

1.Introduction

As a means of transportation, ships and boats have been very important since ancient times.

In ancient times, they also represented the strength of a country.

Regardless the purpose is for military or commercial, ships are needed.



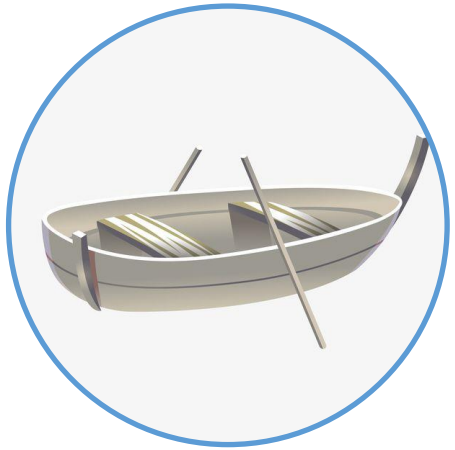
1.Introduction

There are many different types of boats and ships.









2.Exploration



Today we're going to look at sailboats.

Sailboats use the wind to move forward.

The power of the wind is the main power source.

Another source of power for sailboats is the so-called "Bernoulli effect".

2.Exploration

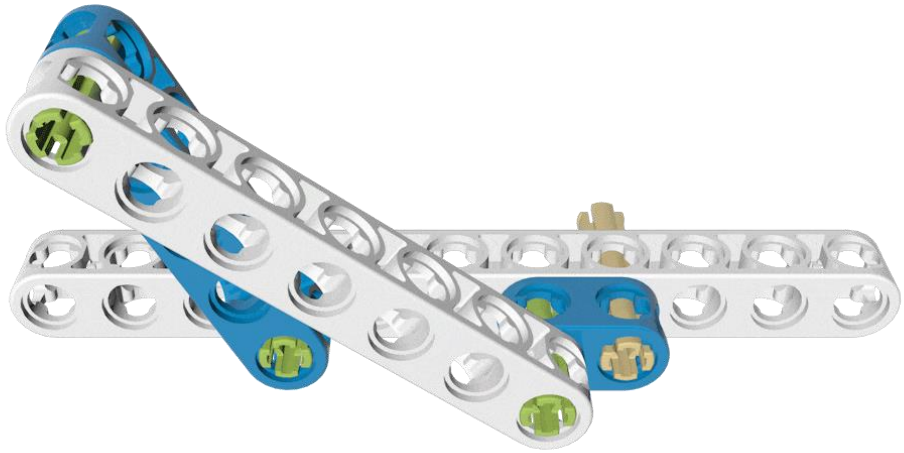
What is it like to sail a sailboat in the ocean?
Very bumpy in the ocean, like a throbbing rabbit



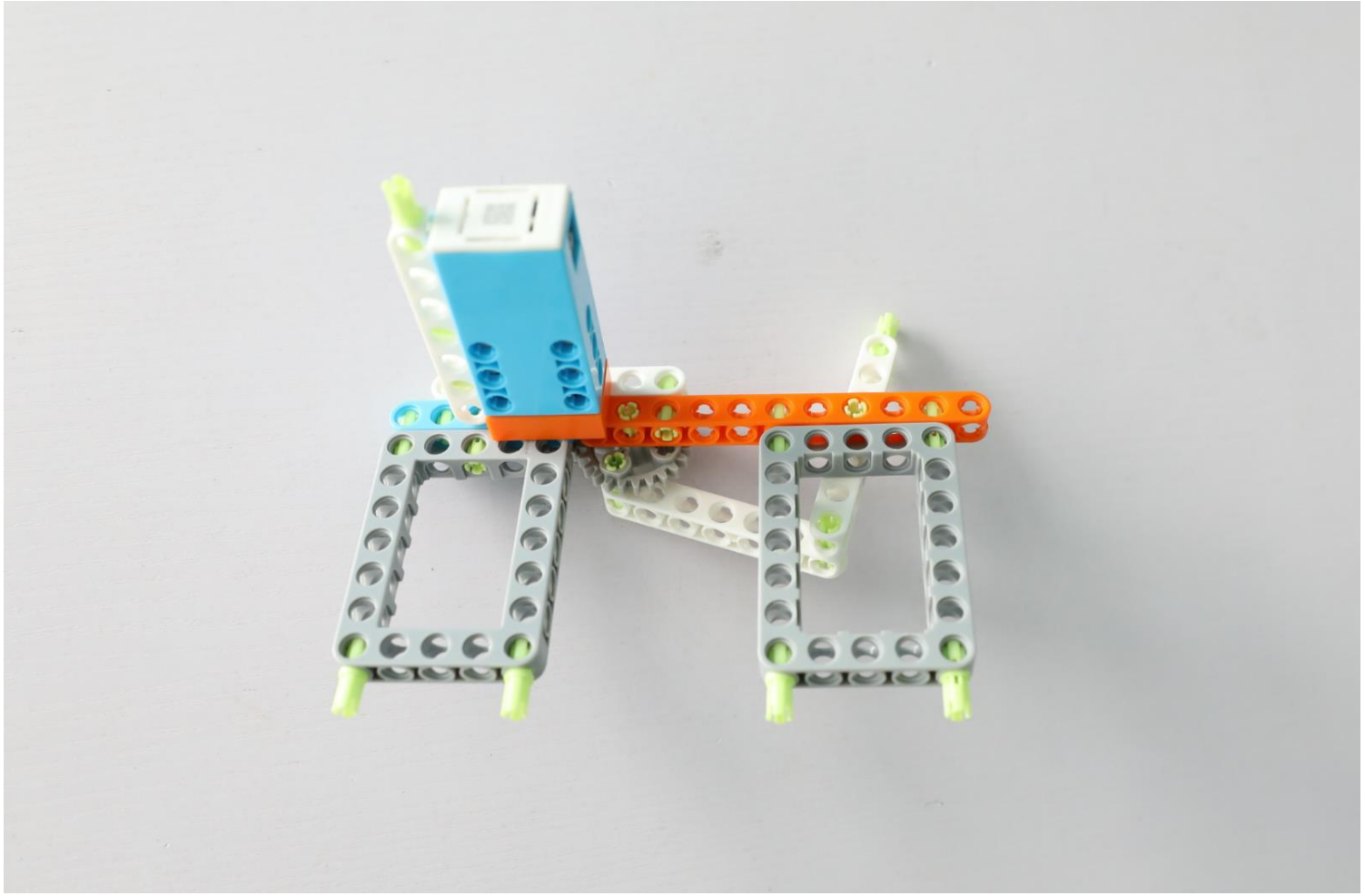
3.Construction

How can we make the sails rock up and down?

Do you remember the crank-rocker mechanism?



3.Construction



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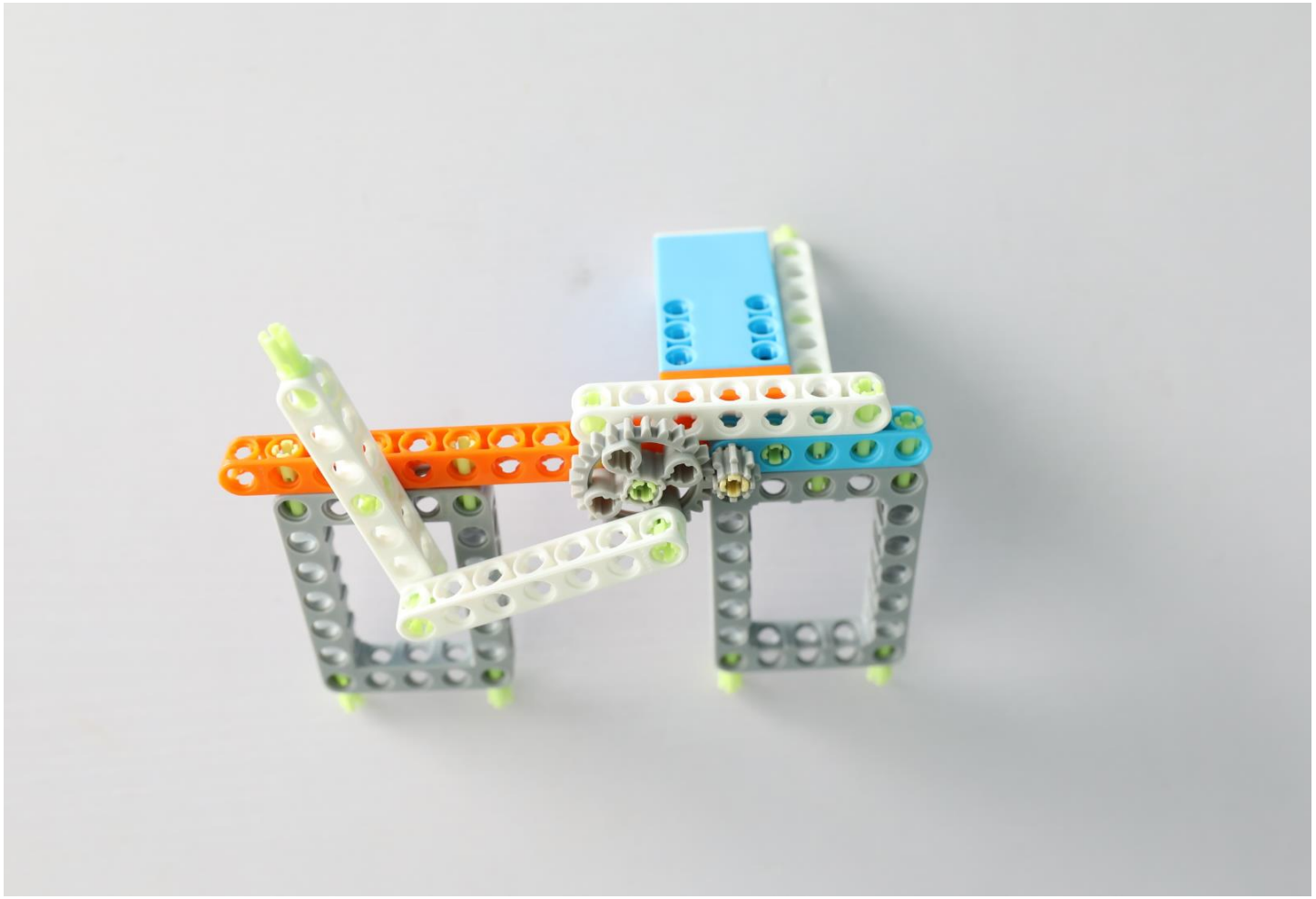

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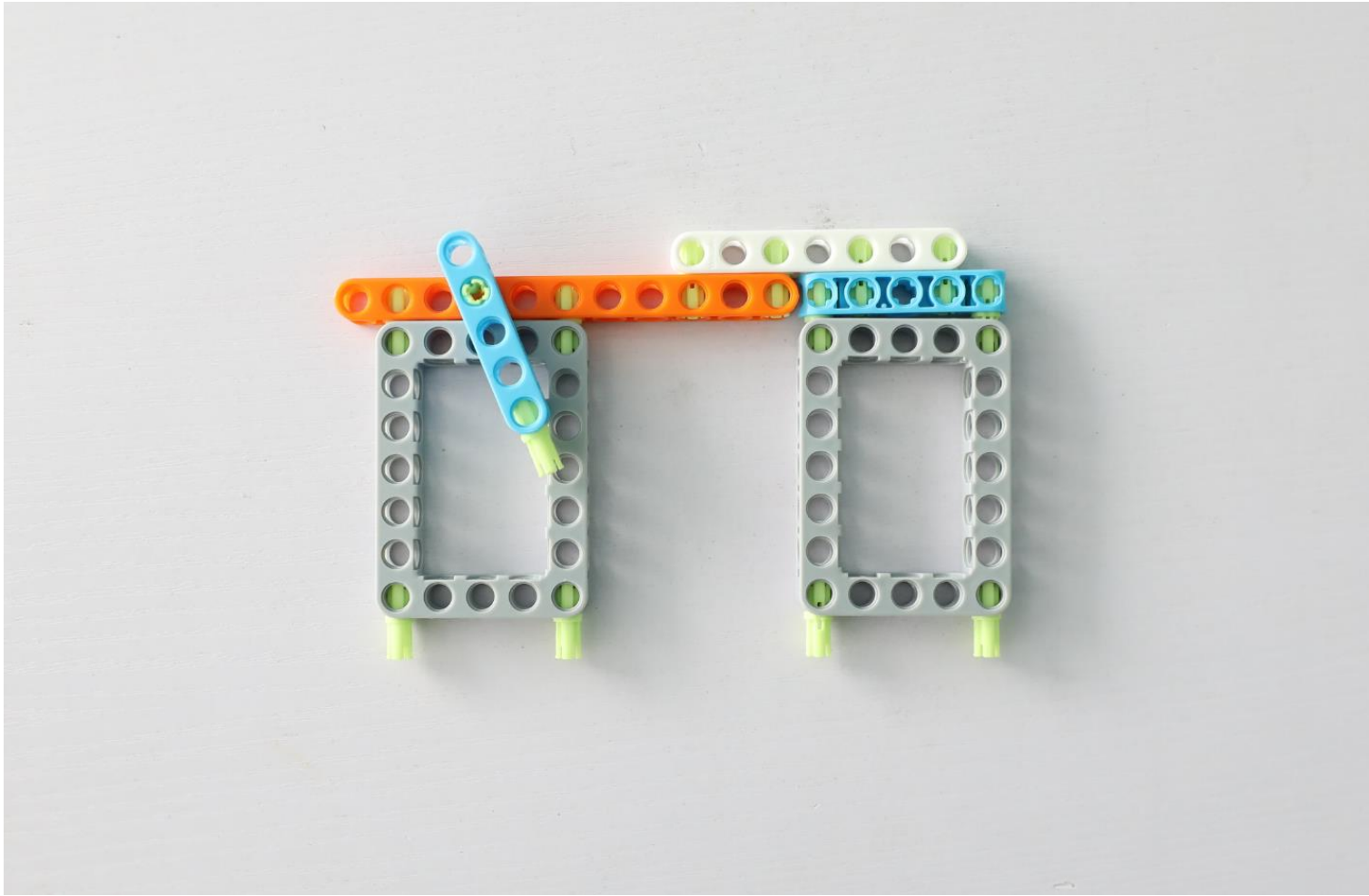

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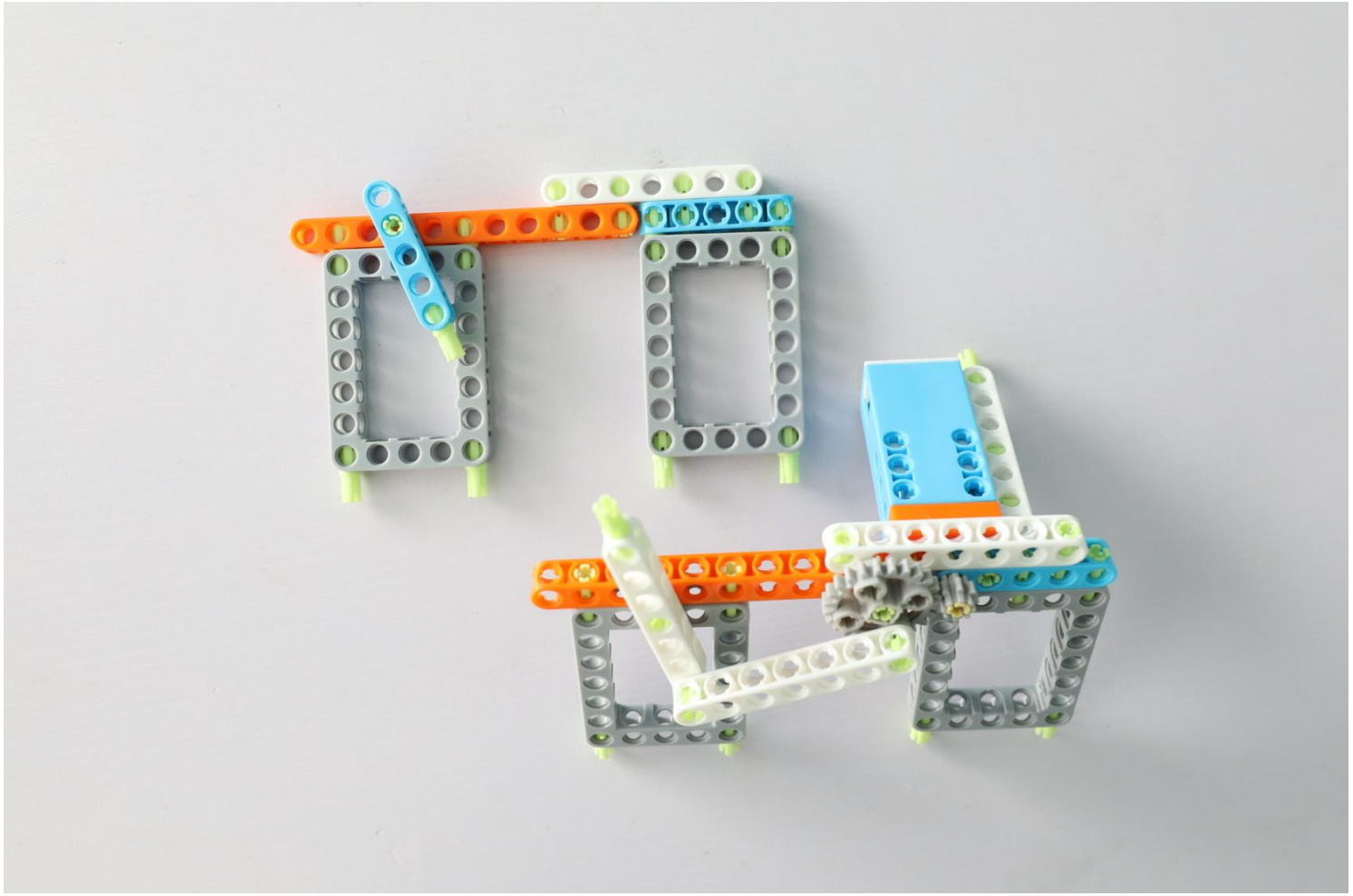

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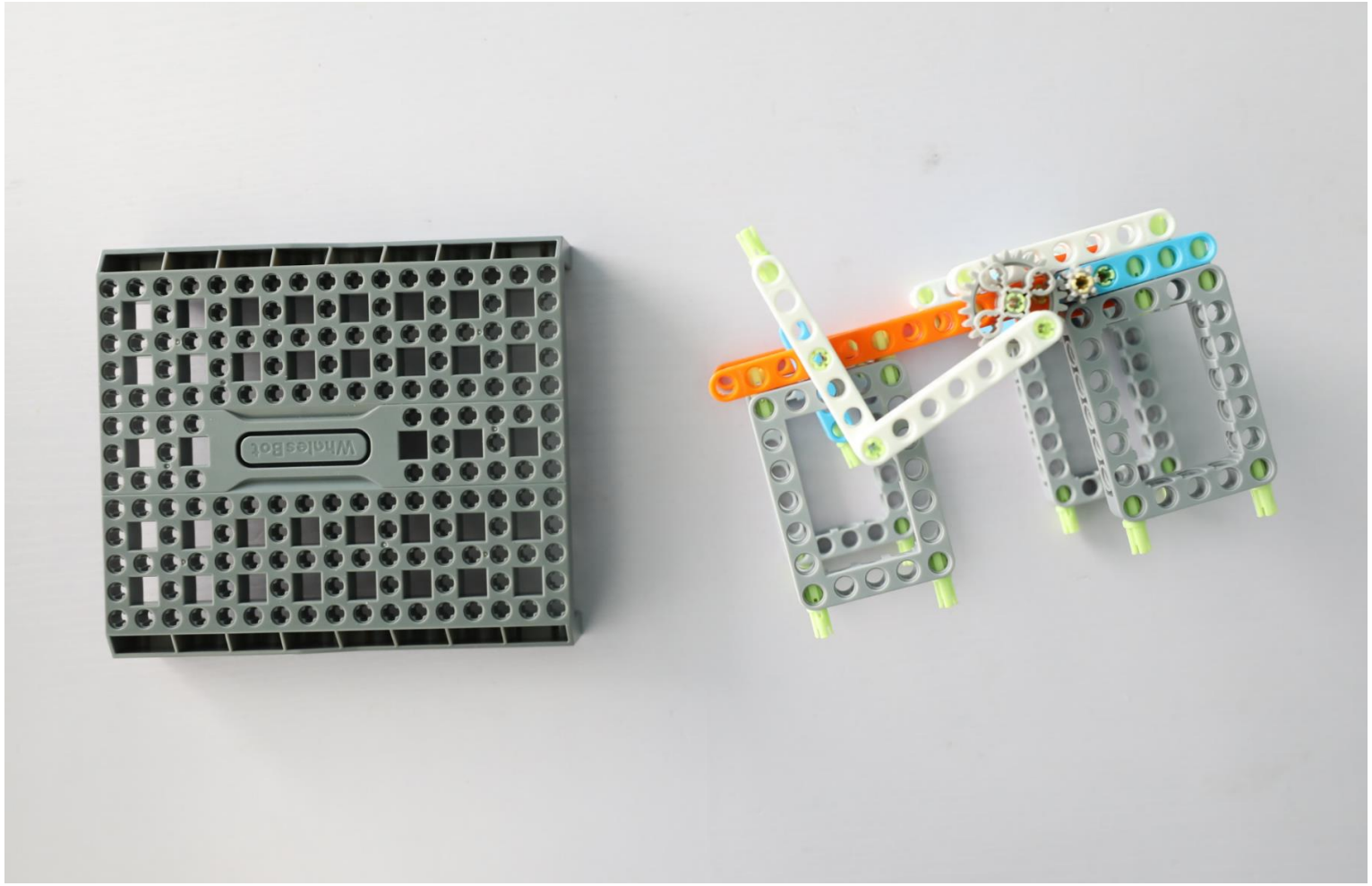

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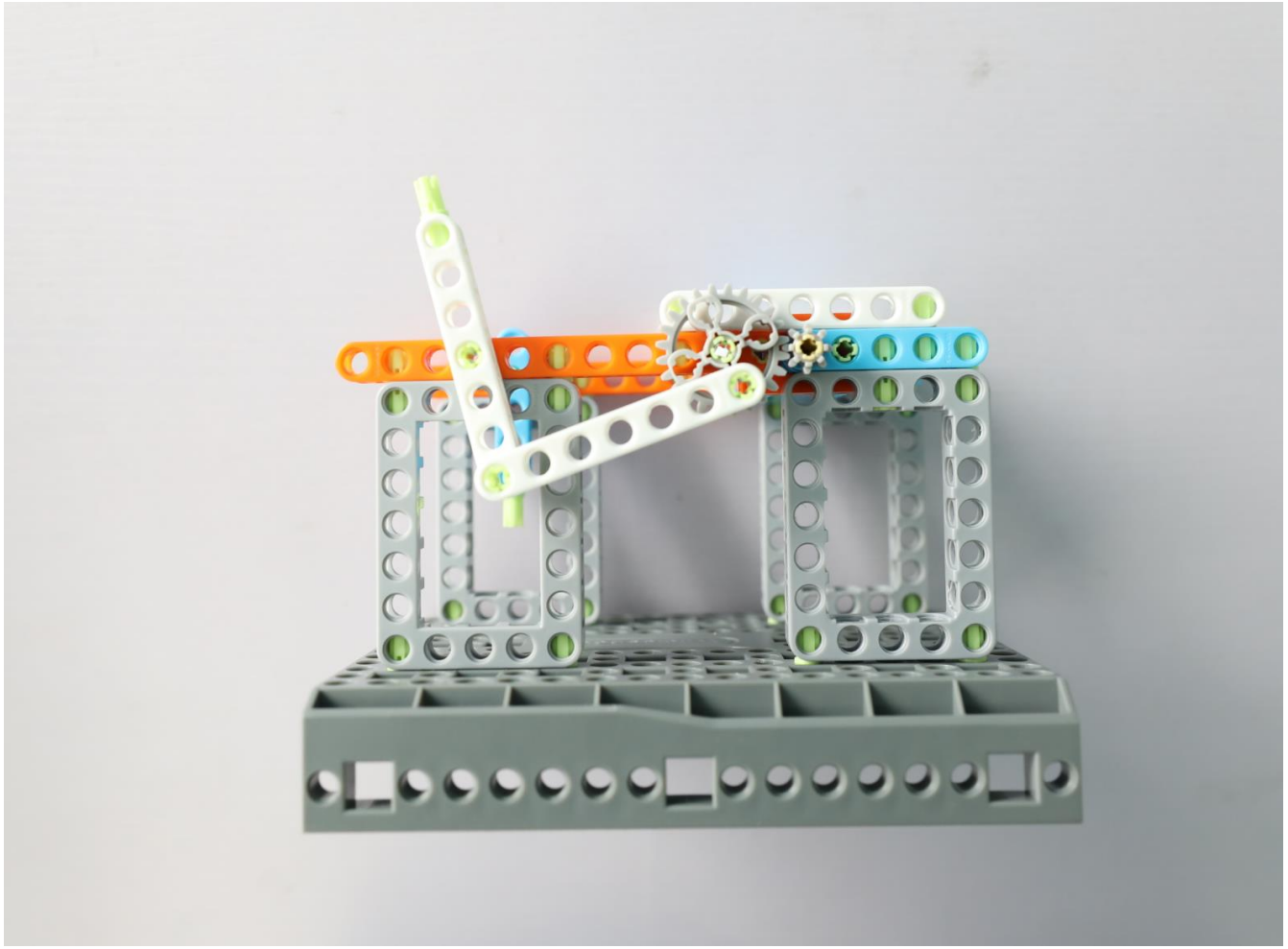

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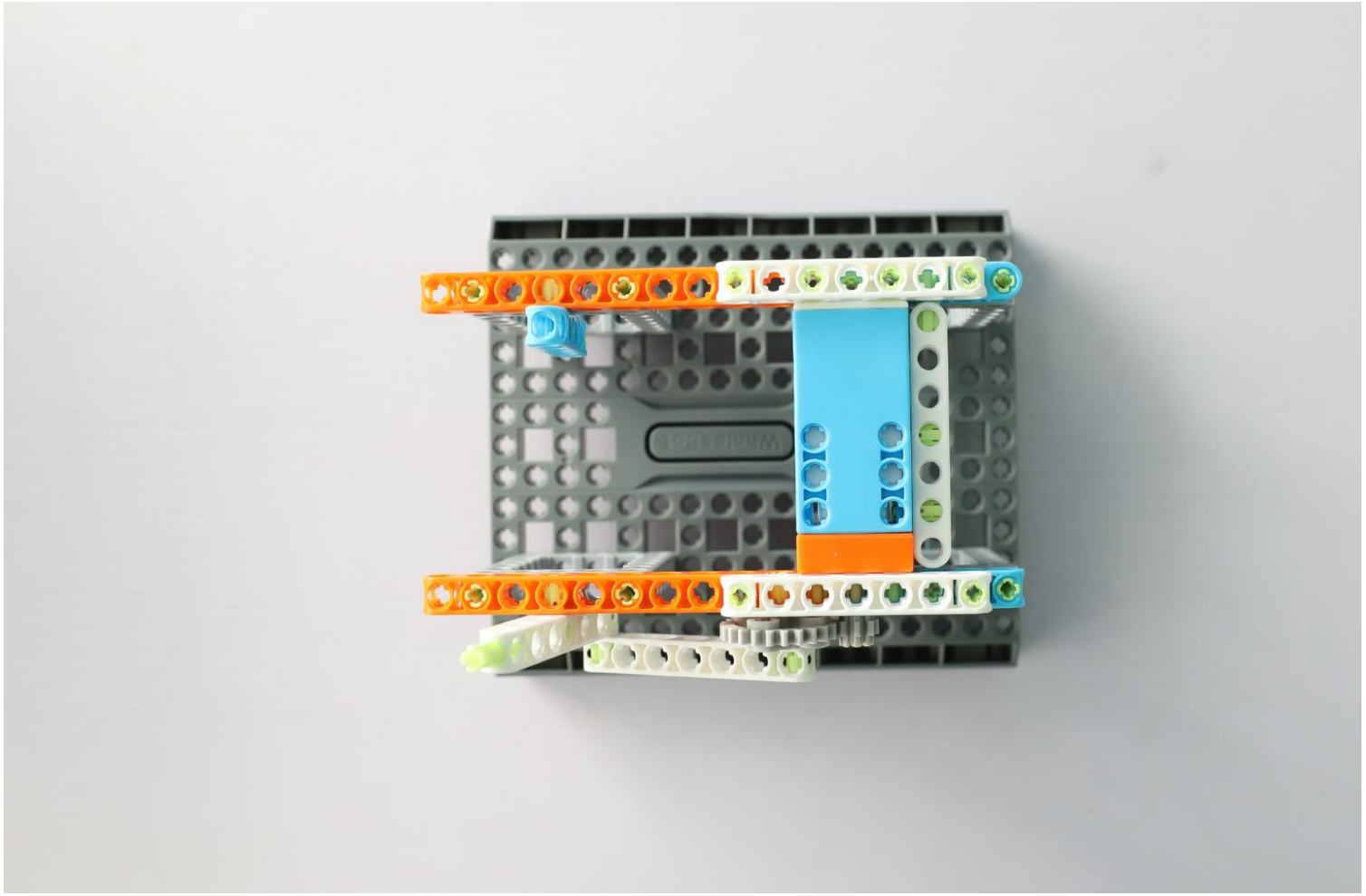

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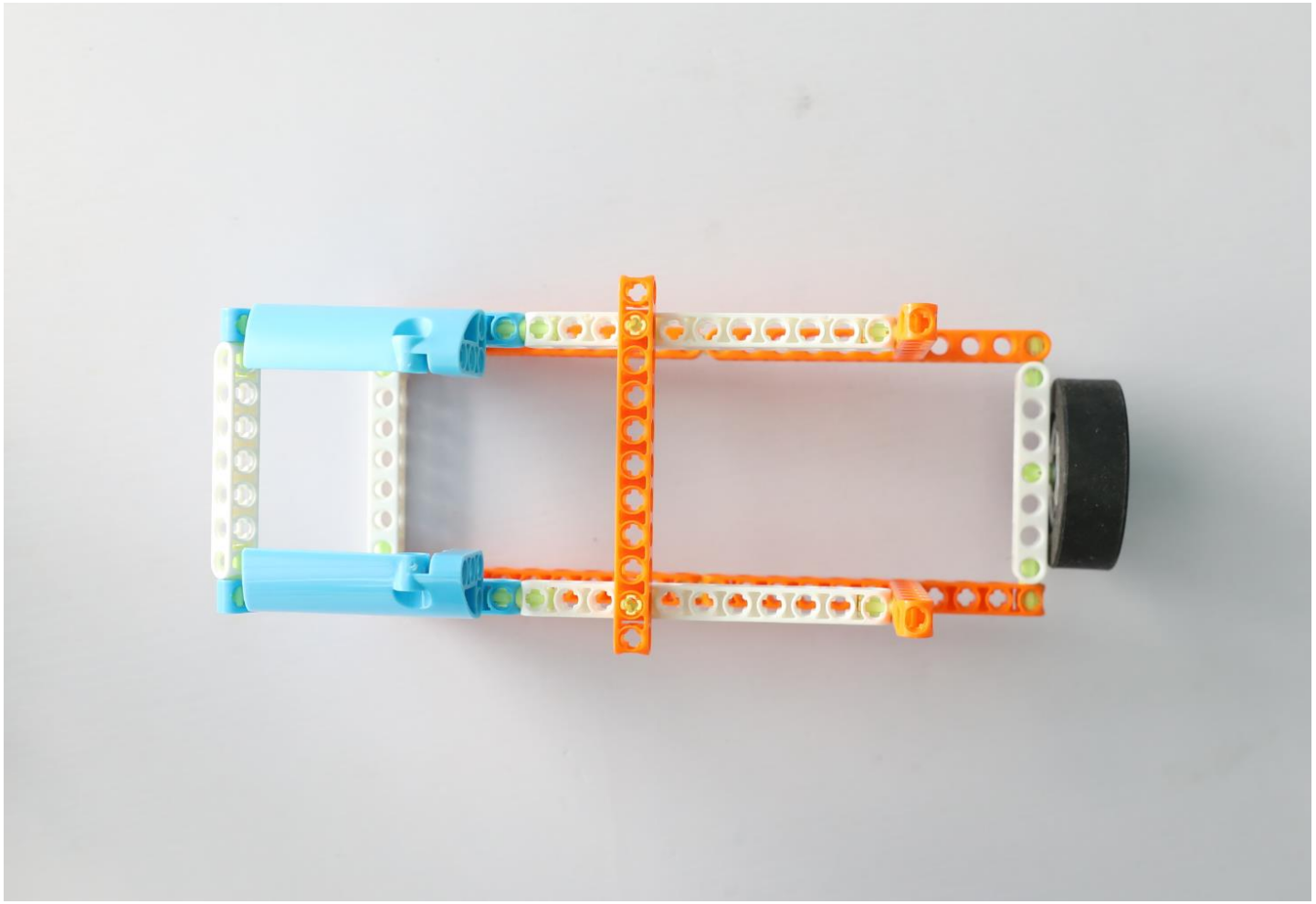

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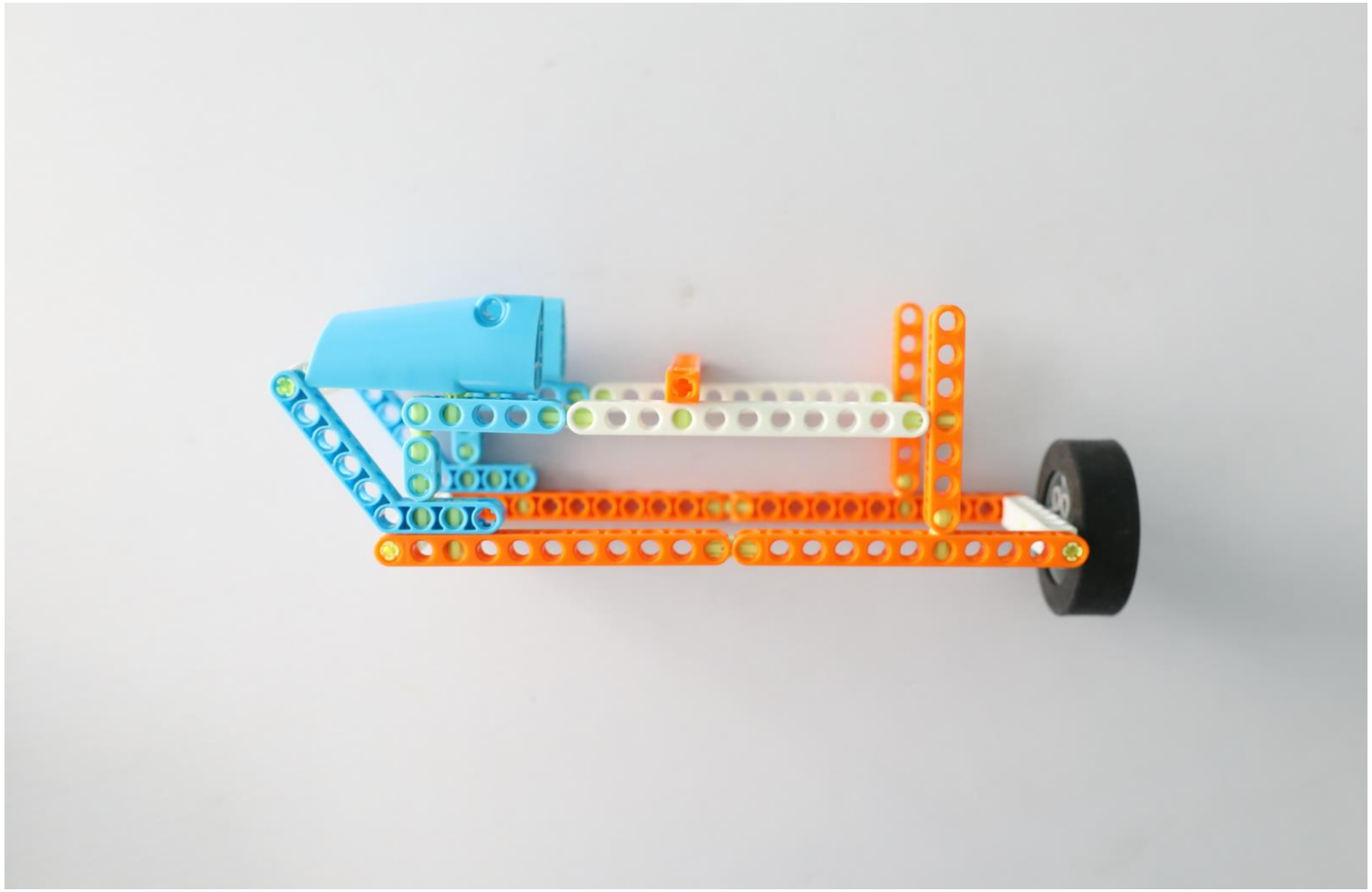

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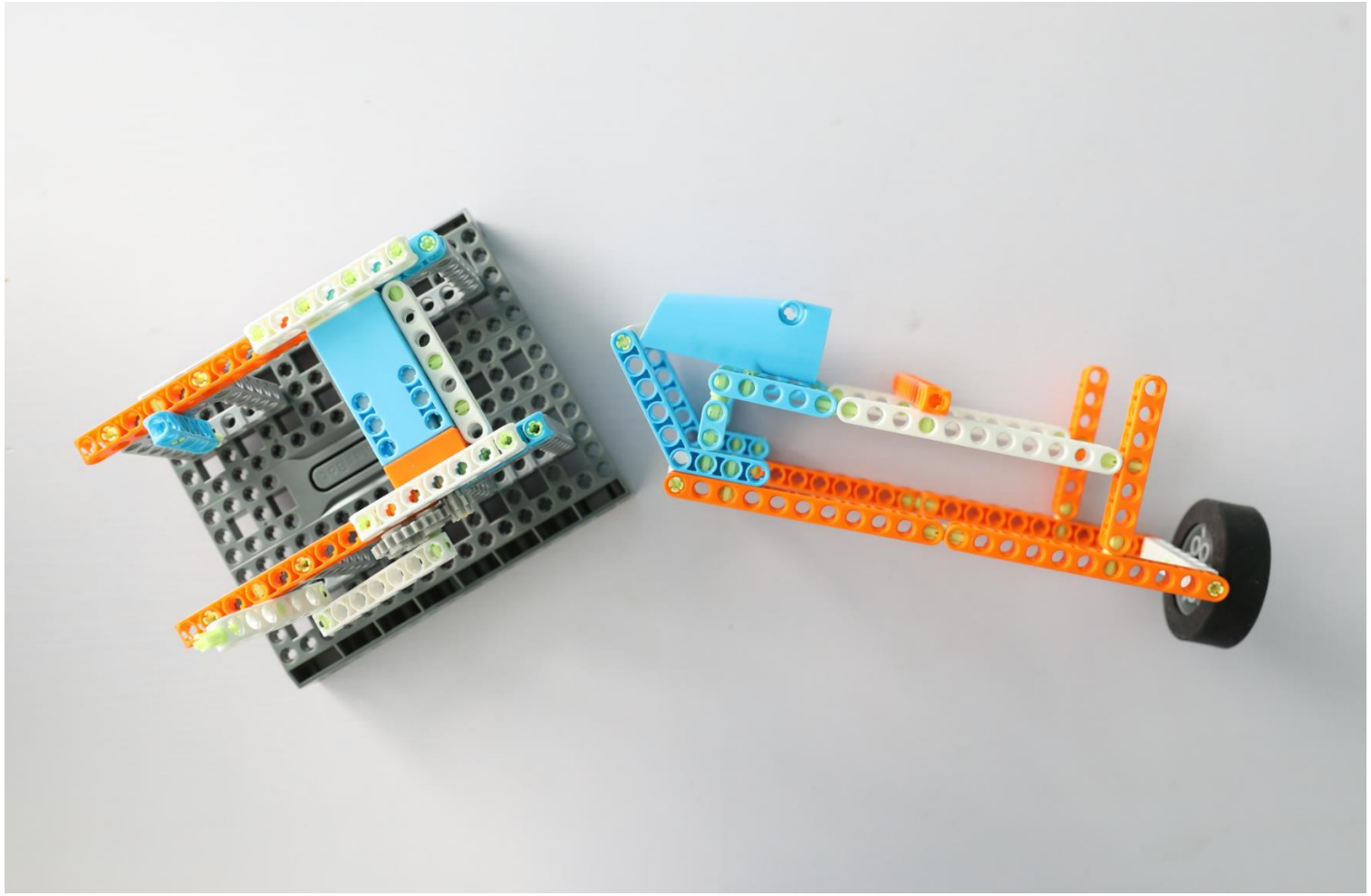

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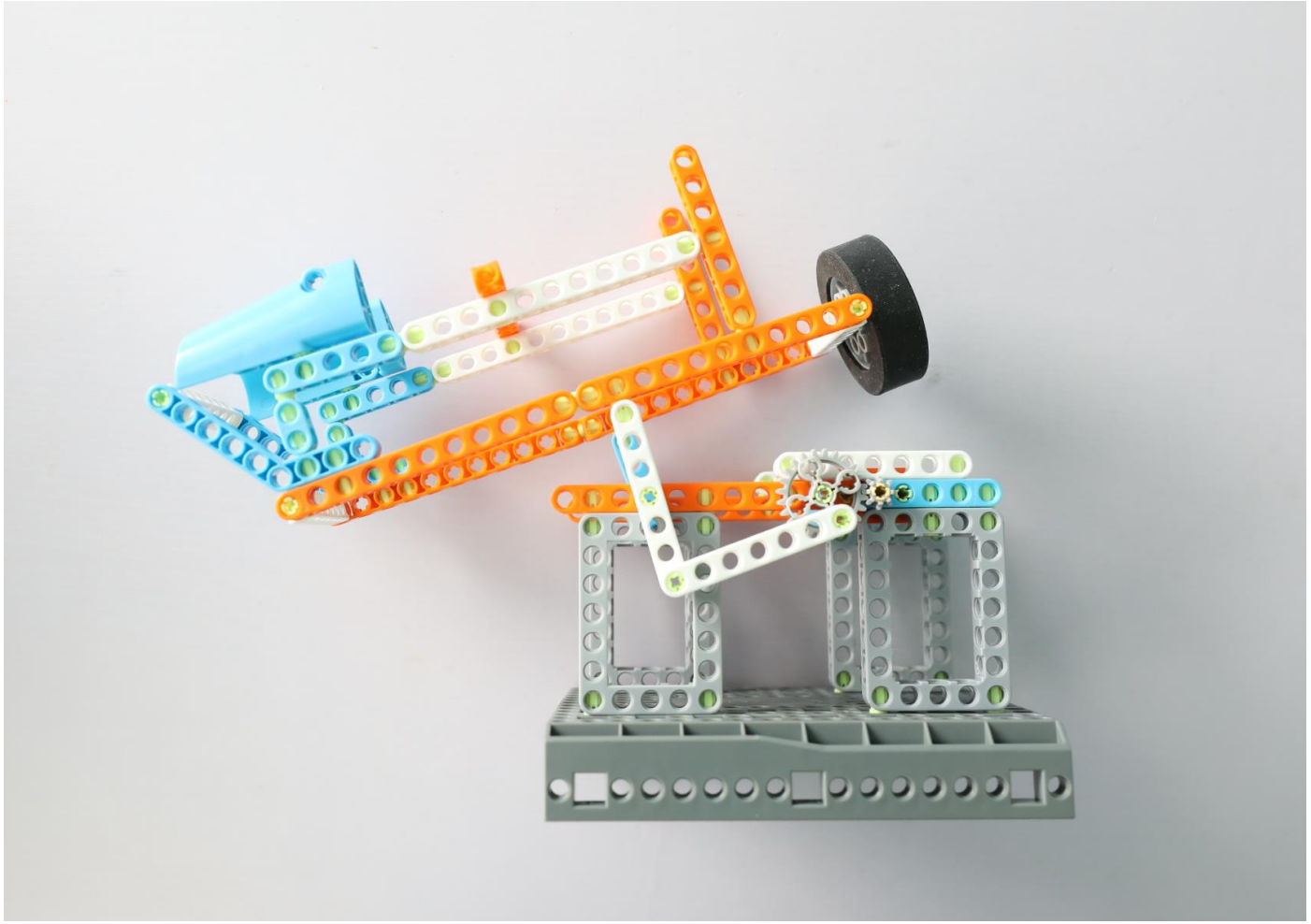

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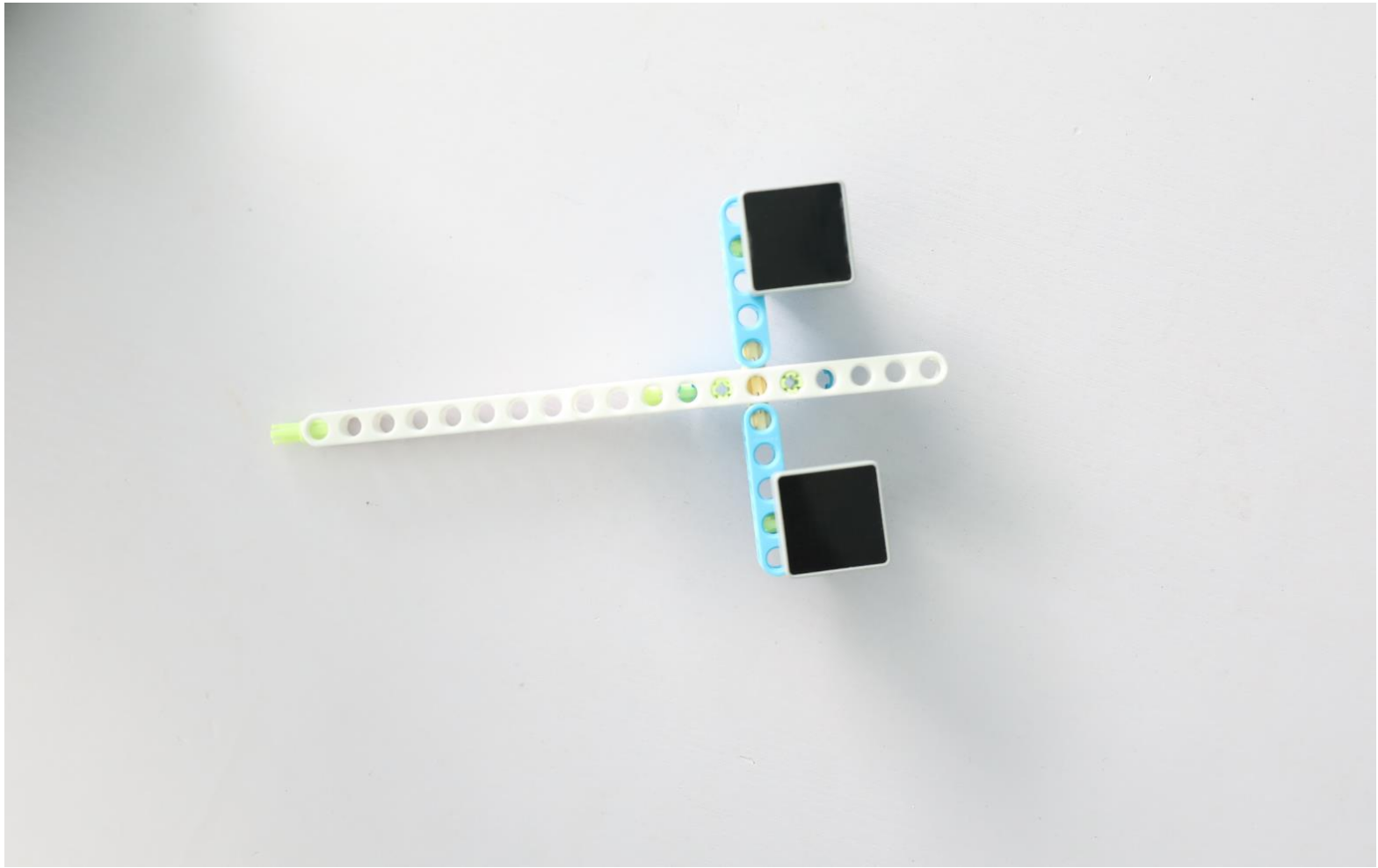

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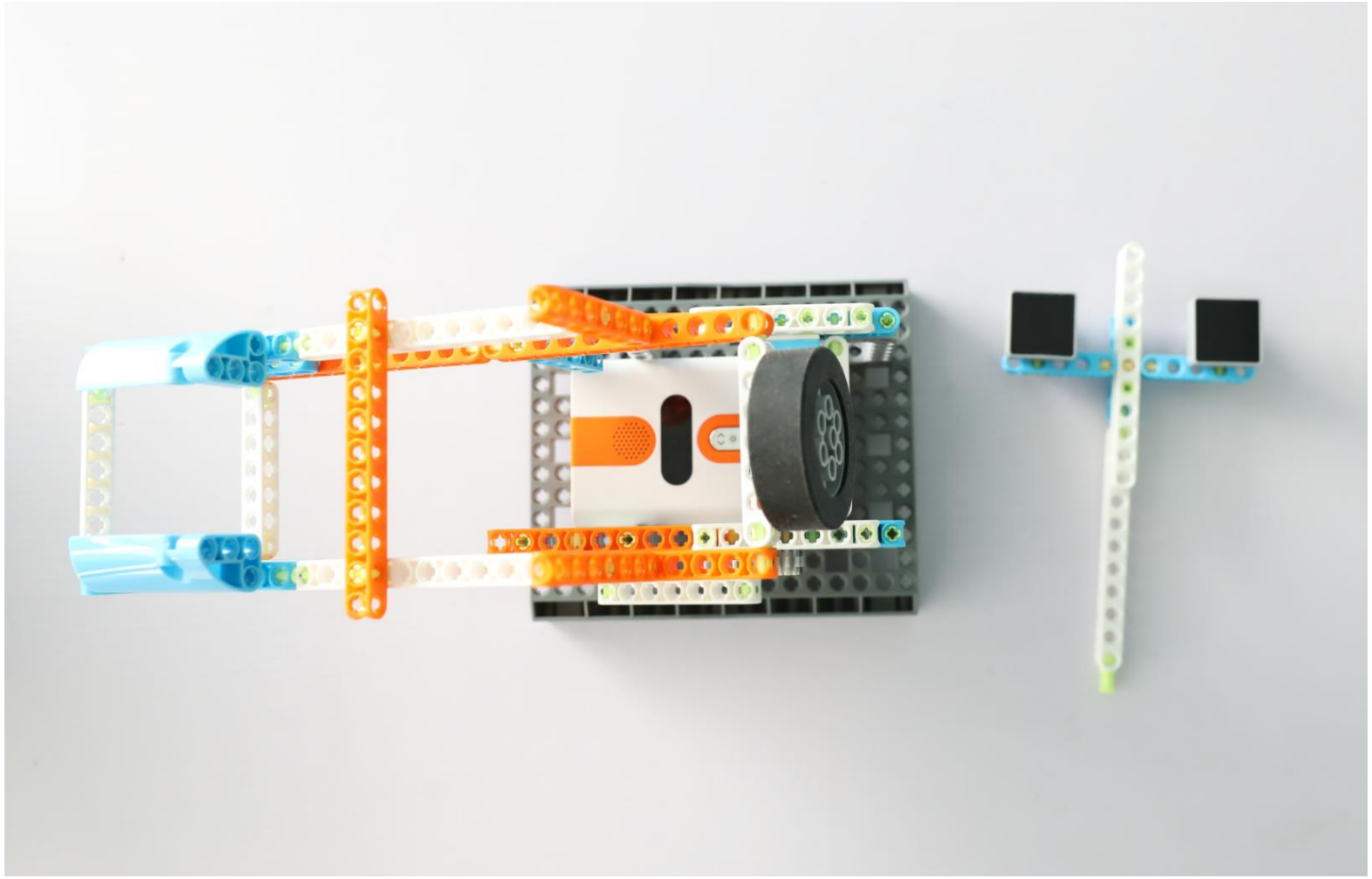

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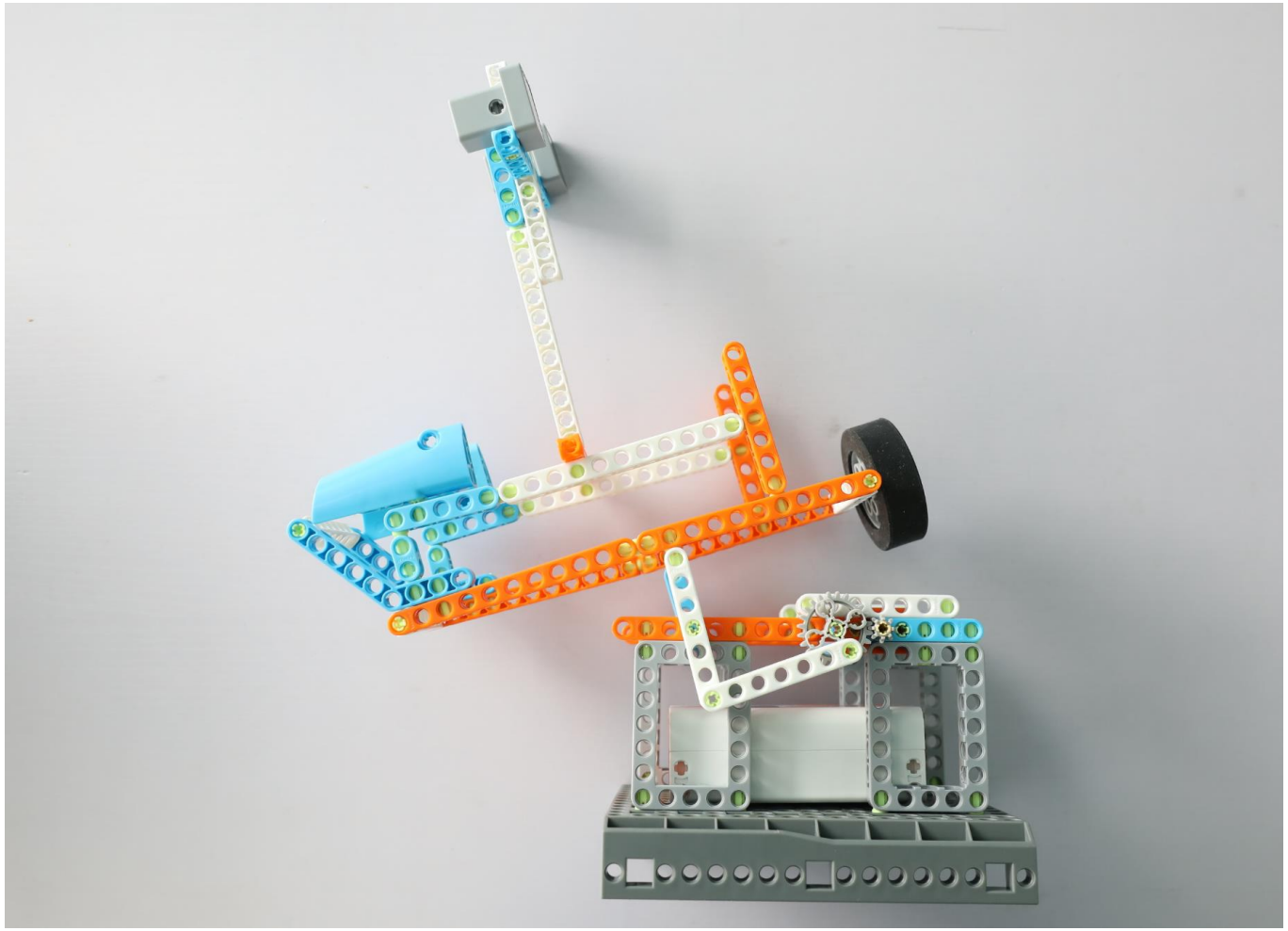
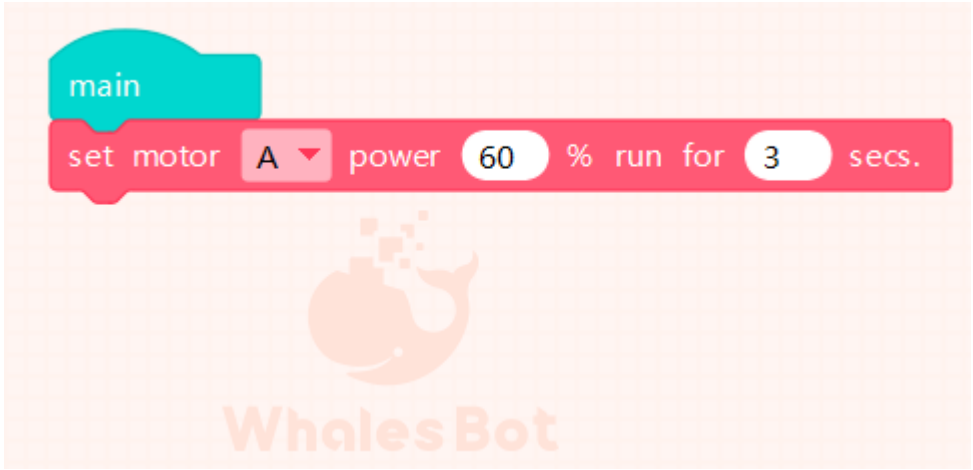


4.Coding

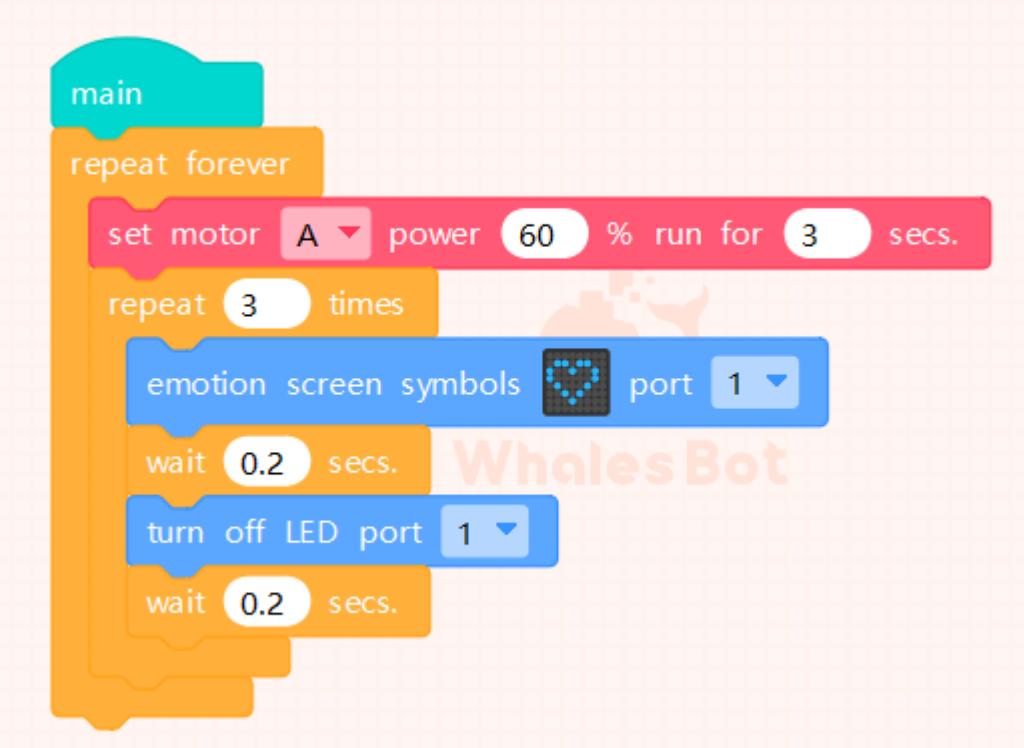


Task 1:

Program the sailboat to make it move.



4.Coding



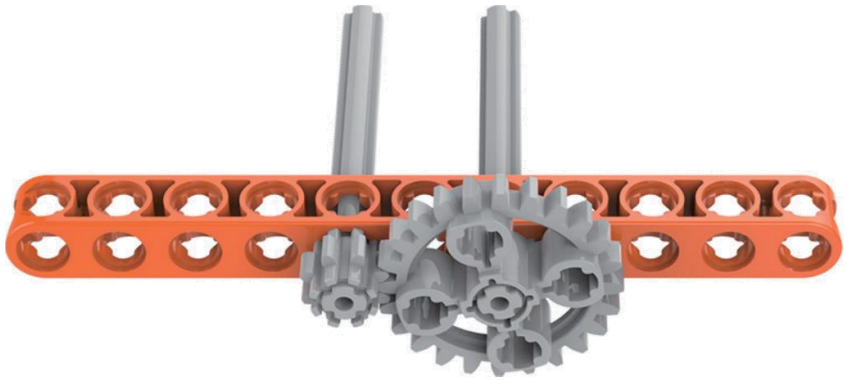
Task 2:

Make the sailboat display different symbols and run the program three times.



5.Evaluation

Besides the crank-rocker mechanism, what structure did we use?

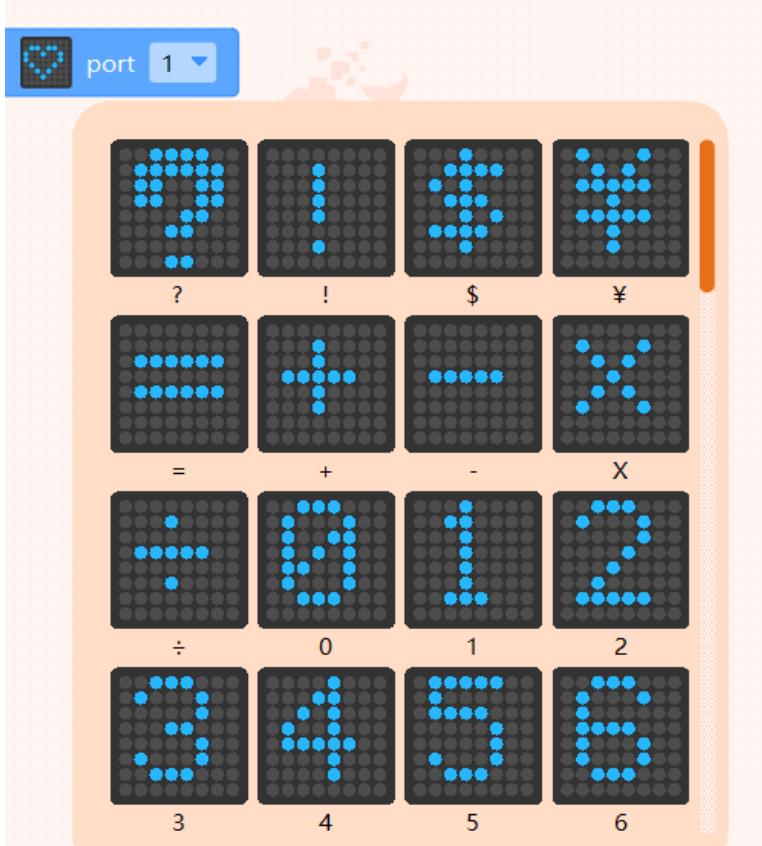


We also use the small gear to drive the big gear and the big gear turns very slowly.

This is the reduction gear of the gear.



6.Challenge



In the program, we have a lot of symbols to use.

Can you make a program that makes the boat do a “3-2-1” countdown before starting the motor?