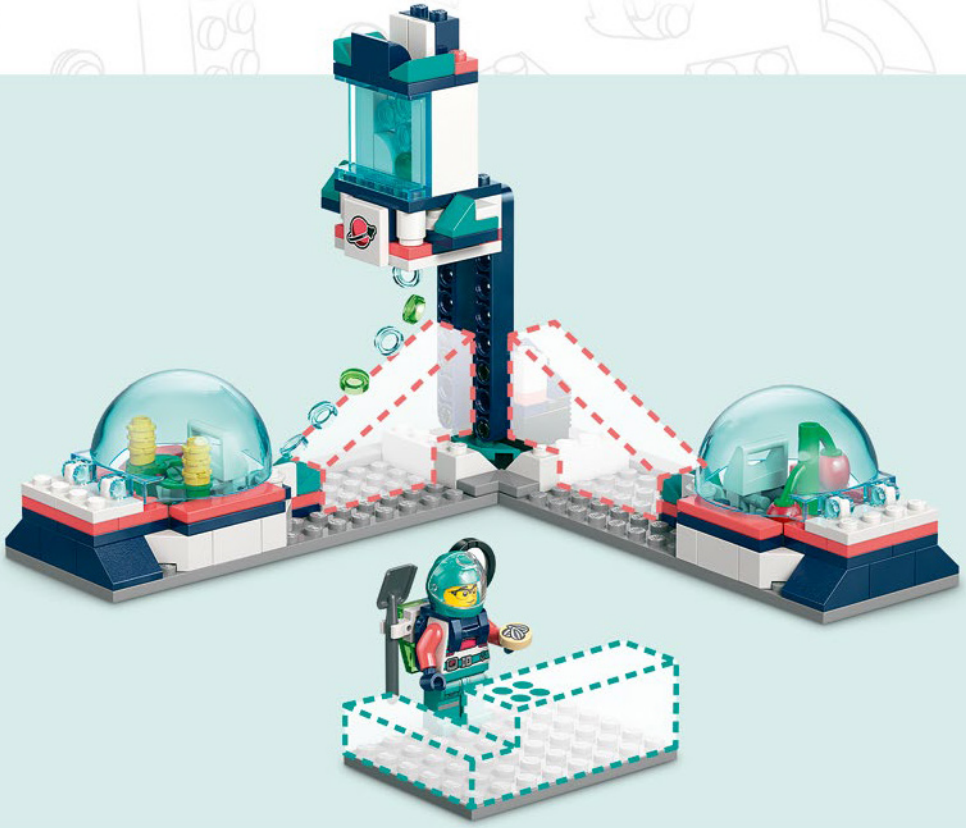
LEGO education

Build Solve Invent

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2

How can plants grow on the Moon?

This Life Science experiment is based on the argument that plants can get what they need for growing mainly from air, light, nutrients and water. Astronauts are exploring how to design air-filled greenhouses to grow plants on the Moon. The greenhouses will melt ice in Moon craters to supply water, use LED lights to simulate the Sun's rays and mix Moon soil with compost for nutrients. These experiments are leading us to a future where plants can thrive, even on the surface of the Moon!

Build

Build: Build a lunar greenhouse for the plants.

Solve

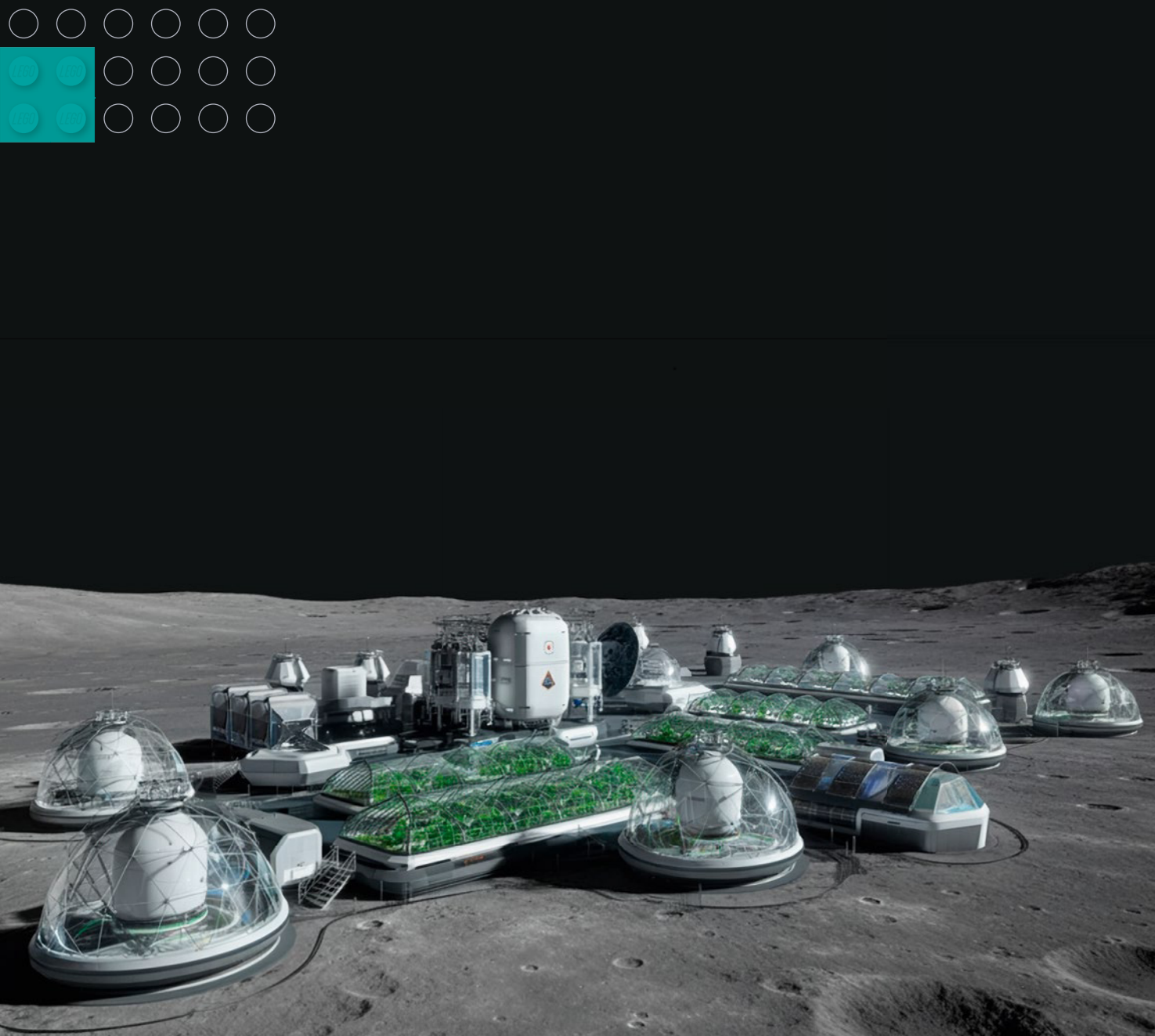
Solve: Create a path to get the water and nutrients to the plants.

Invent

Invent: Design a kitchen to make food with plants.

You can support learning and spark curiosity by asking questions such as:

- How did you get the water and nutrients to the plants?
- What would an astronaut need to live on the Moon?
- Why do you think it is important to be able to grow plants on the Moon?



Comment les plantes peuvent-elles pousser sur la Lune?

Construire Résoudre Inventer™

Cette expérience de sciences de la vie est basée sur l'argument selon lequel les plantes peuvent obtenir ce dont elles ont besoin pour pousser principalement à partir de l'air, de la lumière, des nutriments et de l'eau. Les astronautes étudient comment concevoir des serres remplies d'air pour faire pousser des plantes sur la Lune. Les serres feront fondre la glace dans les cratères lunaires pour fournir de l'eau, utiliseront des lumières à DEL pour simuler les rayons du soleil et mélangeront le sol lunaire avec du compost pour les nutriments. Ces expériences nous mènent vers un avenir où les plantes peuvent prospérer, même sur la surface de la Lune!

Construire

Construire : Construisez une serre lunaire pour les plantes.

Résoudre

Résoudre : Créez un chemin pour acheminer l'eau et les nutriments jusqu'aux plantes.

Inventer

Inventer : Concevez une cuisine pour faire de la nourriture avec des plantes.

Vous pouvez soutenir l'apprentissage et éveiller la curiosité en posant des questions telles que :

- Comment as-tu acheminé l'eau et les nutriments jusqu'aux plantes?
- De quoi un astronaute aurait-il besoin pour vivre sur la Lune?
- Pourquoi penses-tu qu'il est important de pouvoir faire pousser des plantes sur la Lune?

¿Cómo podrían crecer plantas en la Luna?

Este experimento de ciencias de la vida se centra en la afirmación de que las plantas pueden obtener lo que necesitan para crecer principalmente del aire, la luz, los nutrientes y el agua. Los astronautas están buscando una forma de diseñar invernaderos llenos de aire para cultivar plantas en la Luna. En los invernaderos se fundirá hielo de los cráteres lunares para suministrar agua, se usarán luces LED para simular los rayos del Sol y se mezclará tierra lunar con composta para obtener nutrientes. Estos experimentos abren las puertas a un futuro donde las plantas puedan florecer... ¡incluso en la superficie de la Luna!

Construye

Construye: Construye un invernadero lunar para las plantas.

Resuelve

Resuelve: Crea una forma de llevar agua y nutrientes a las plantas.

Inventa

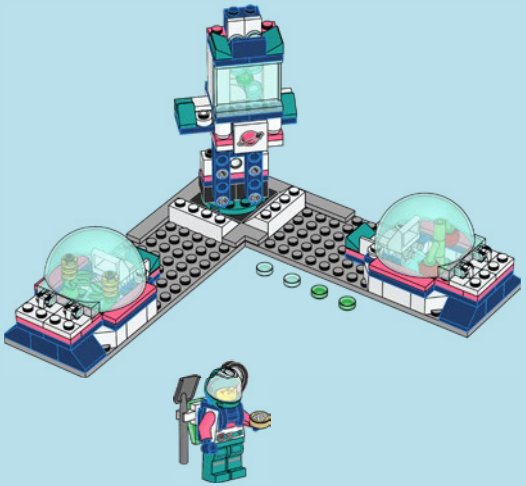
Inventa: Diseña una cocina para preparar comida usando plantas como ingredientes.

Puedes apoyar el aprendizaje y despertar la curiosidad haciendo preguntas como las siguientes:

- ¿Cómo hiciste llegar el agua y los nutrientes a las plantas?
- ¿Qué necesitaría un astronauta para vivir en la Luna?
- ¿Por qué crees que es importante poder cultivar plantas en la Luna?

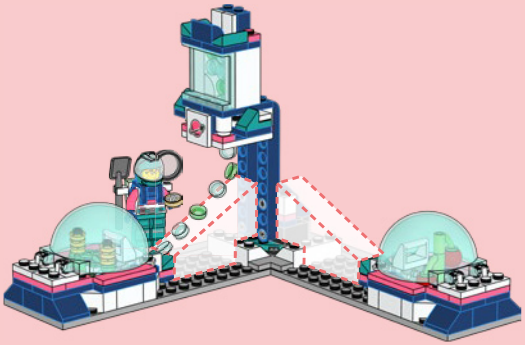
Build · Construire · Construye





Solve · Résoudre · Resuelve

5



Invent · Inventer · Inventa

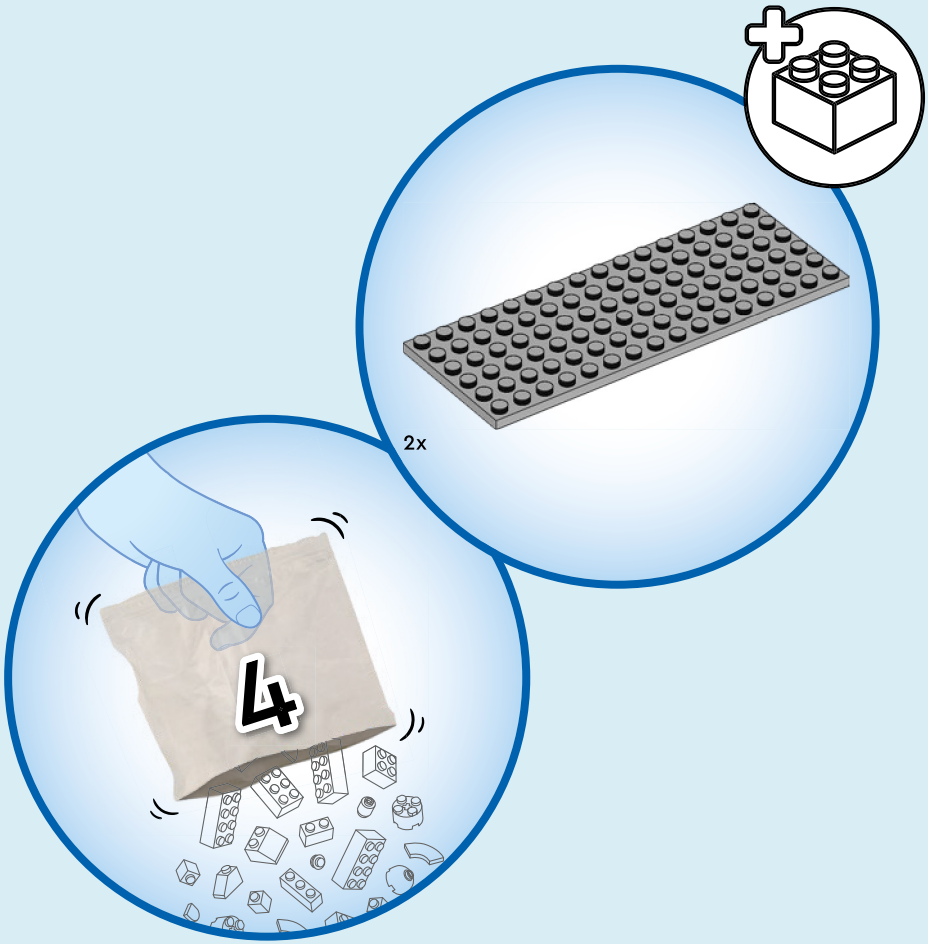
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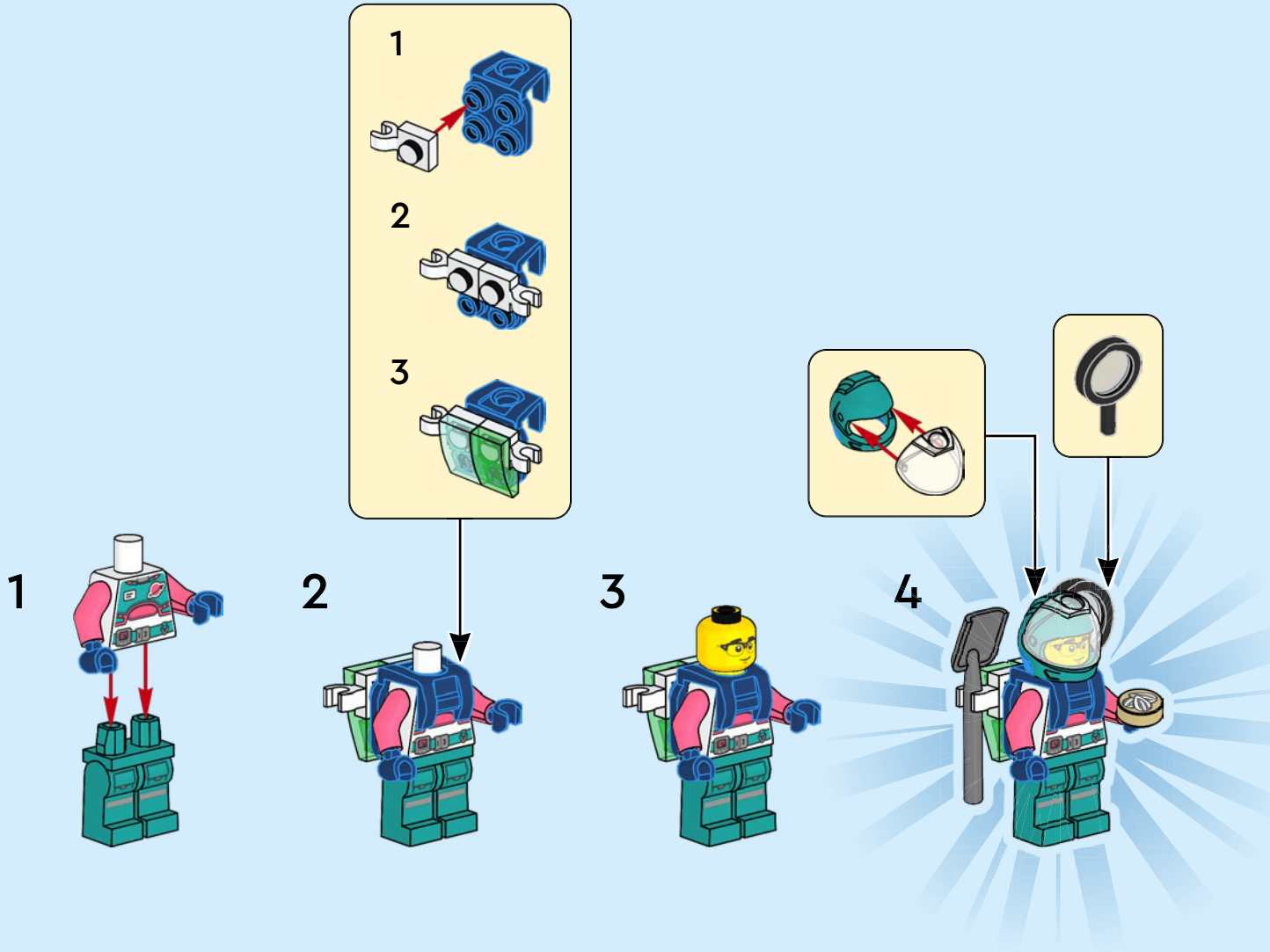


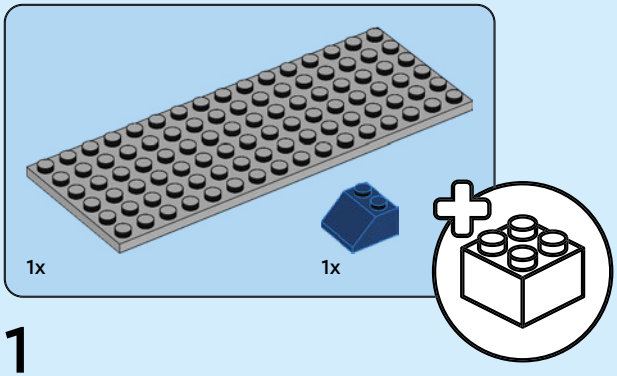
Build · Construye · Construire ·



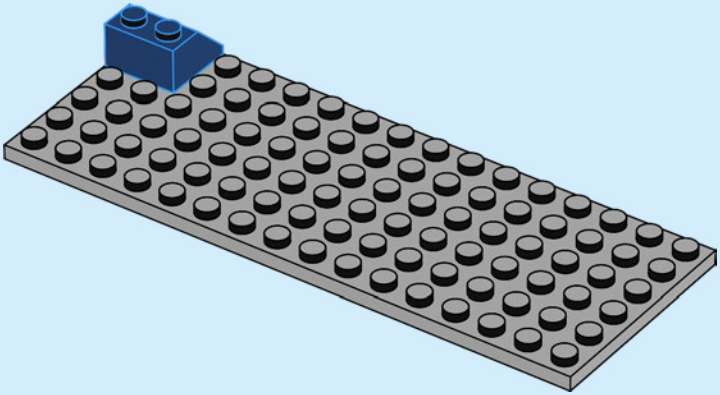



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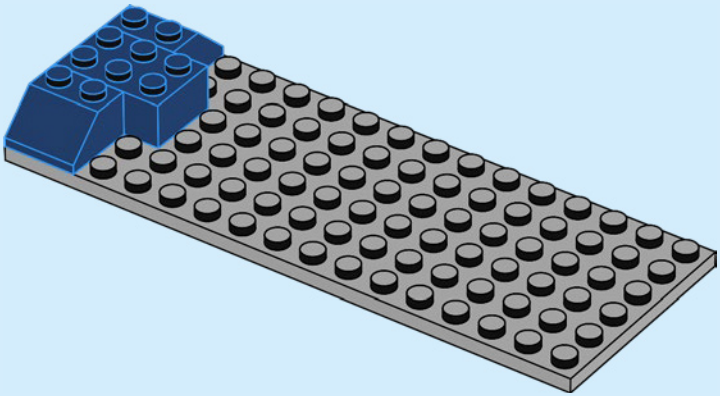


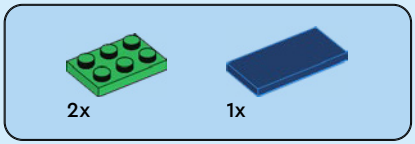
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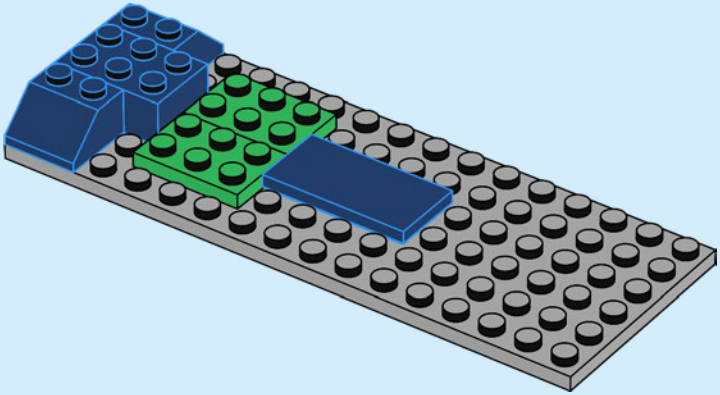


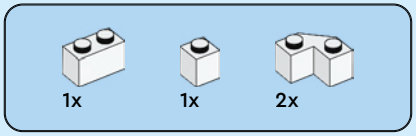
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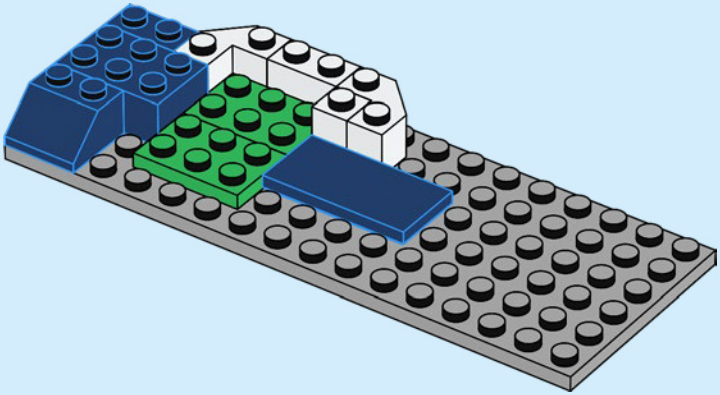


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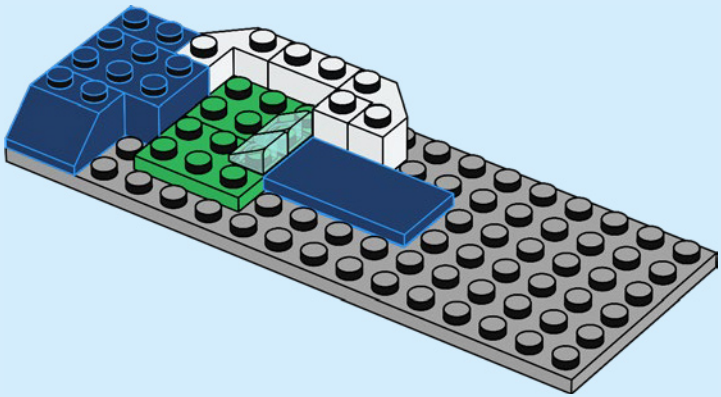
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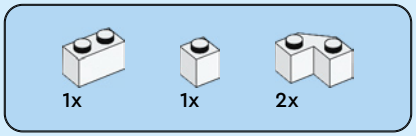




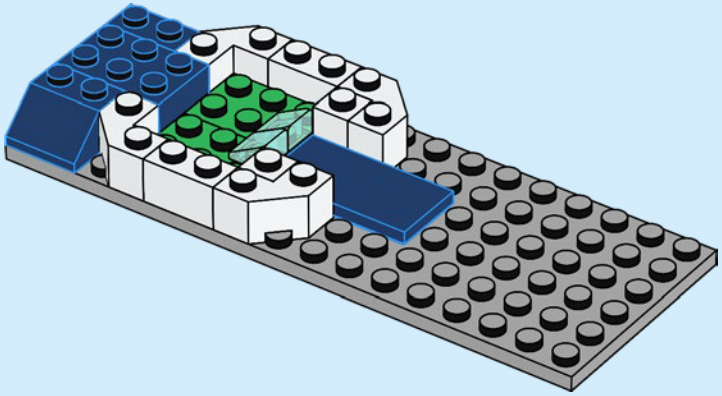
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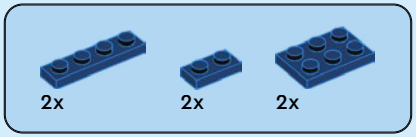
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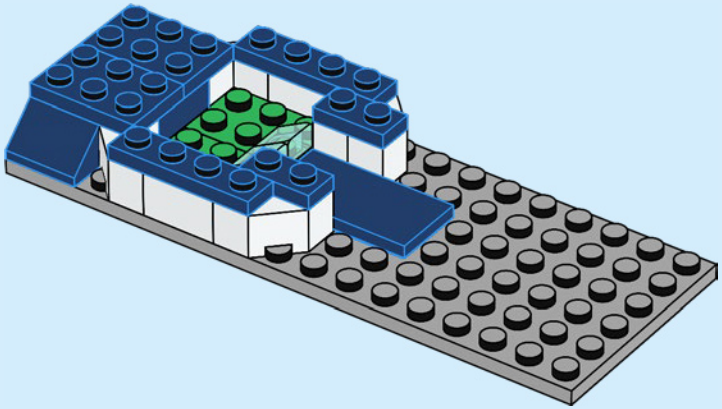


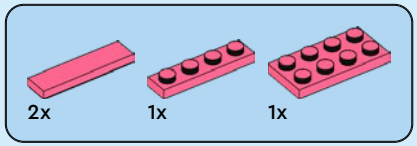
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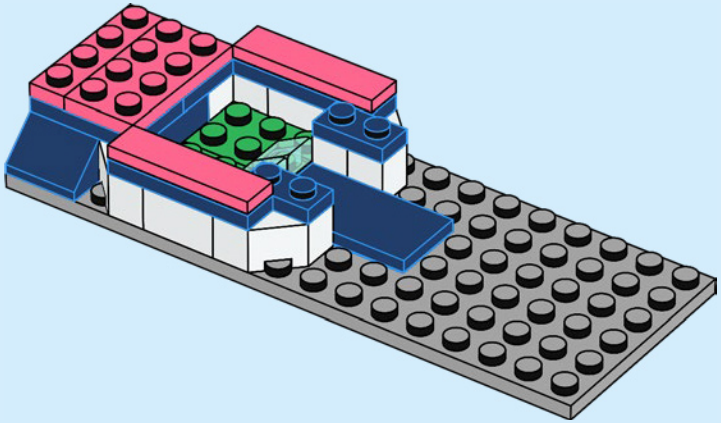


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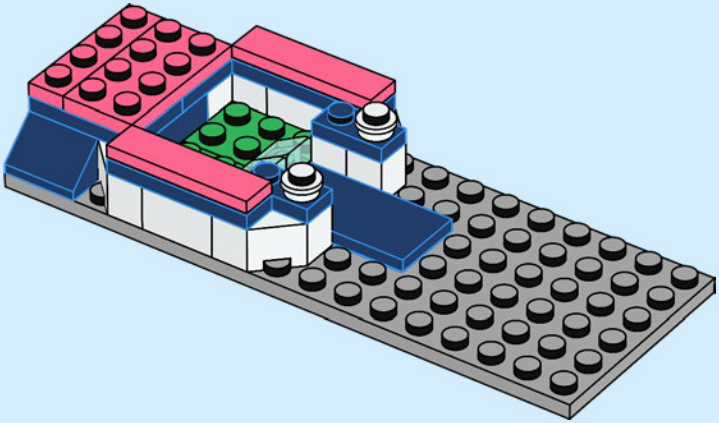


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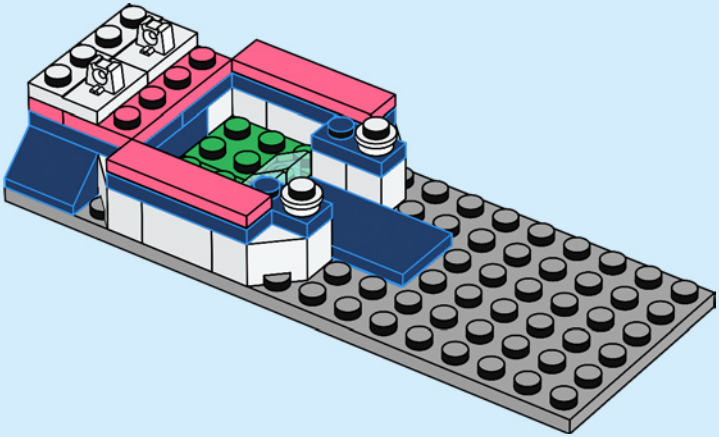

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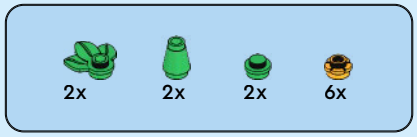
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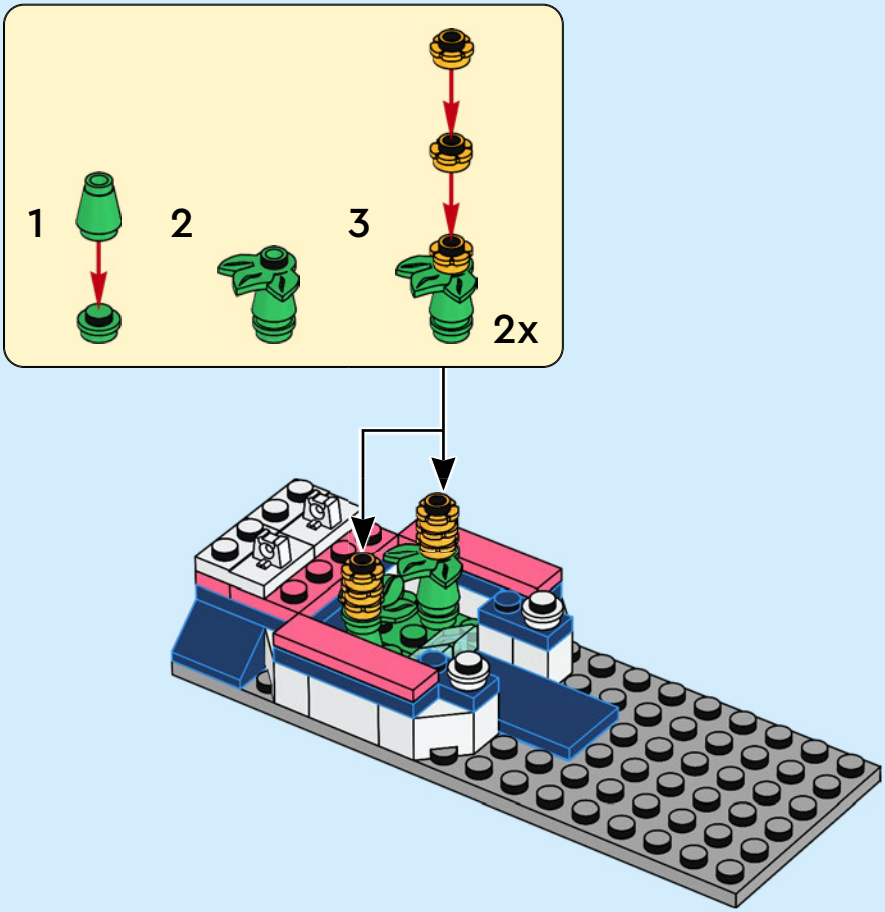

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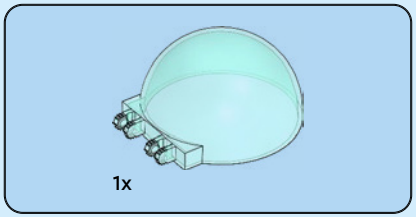
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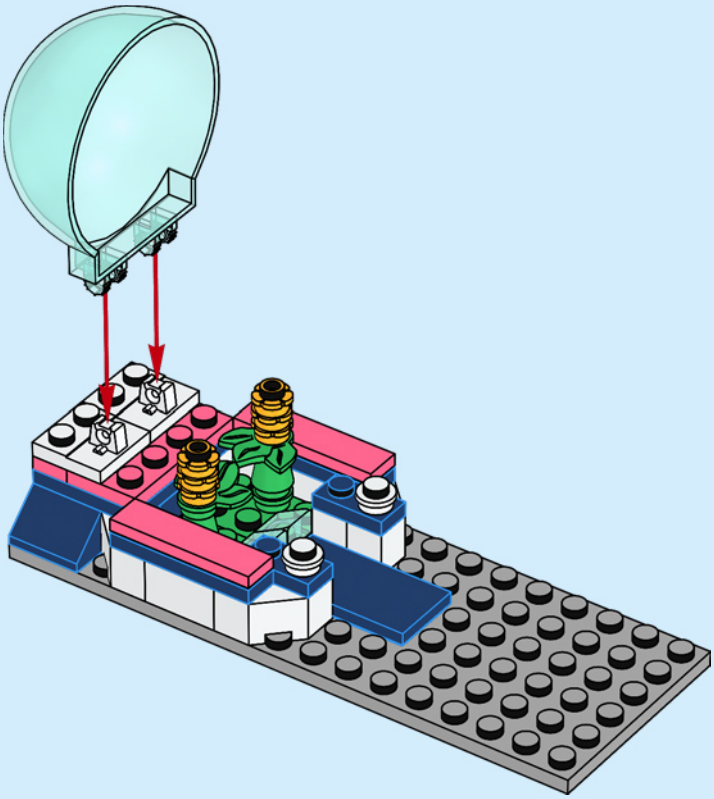


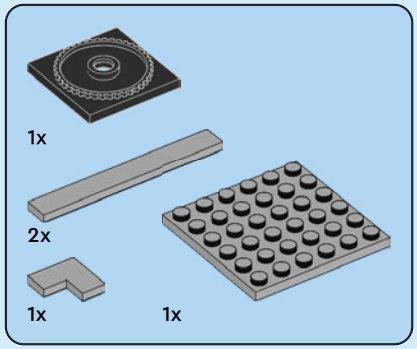
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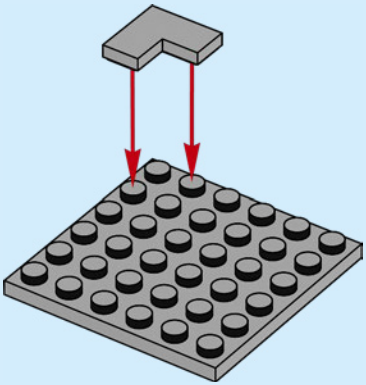
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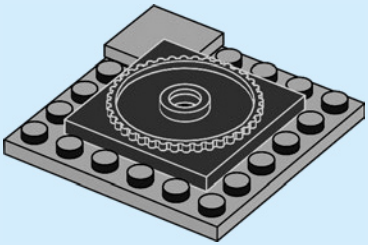


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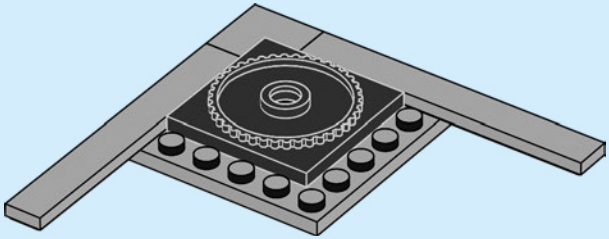
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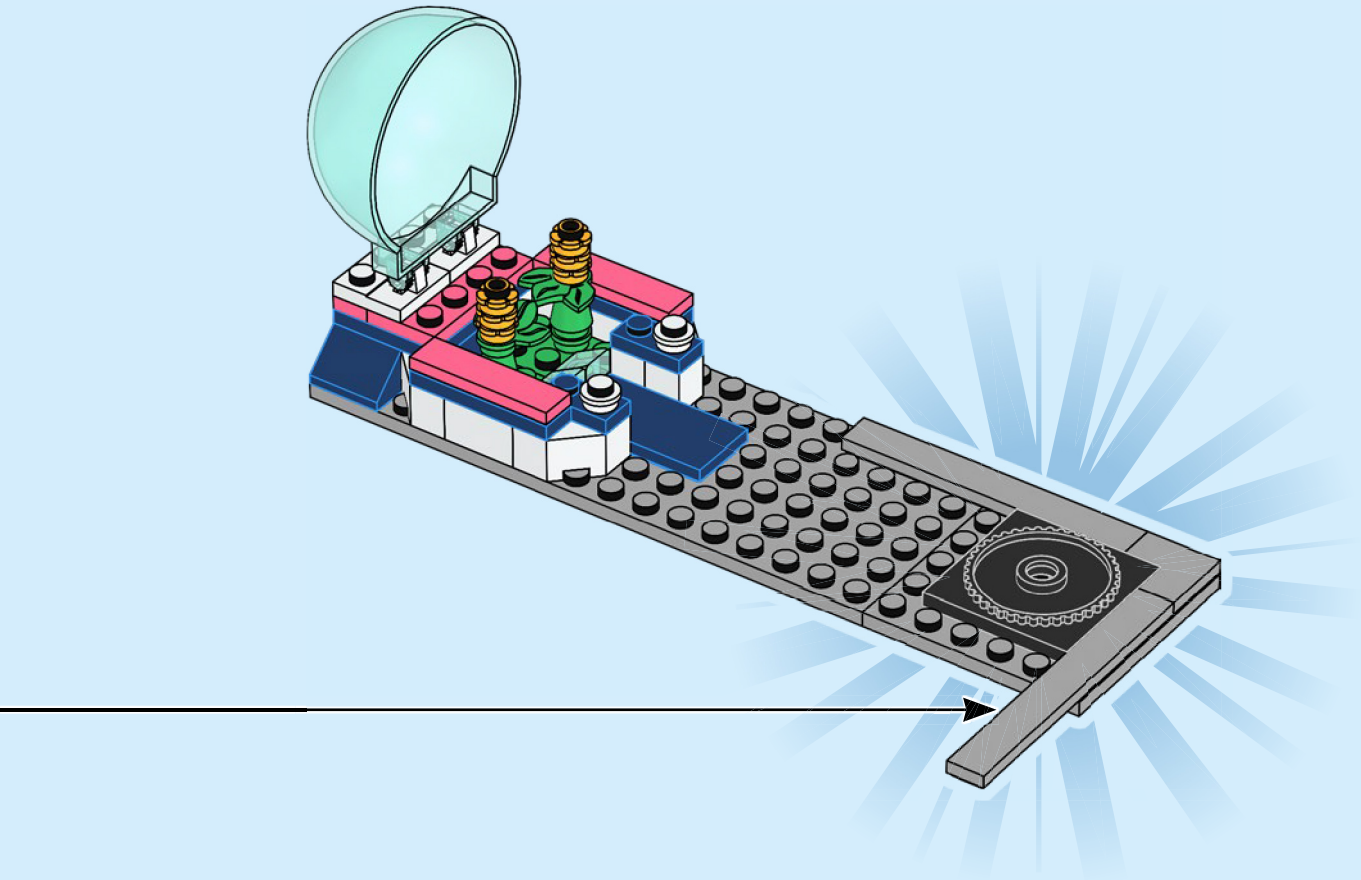


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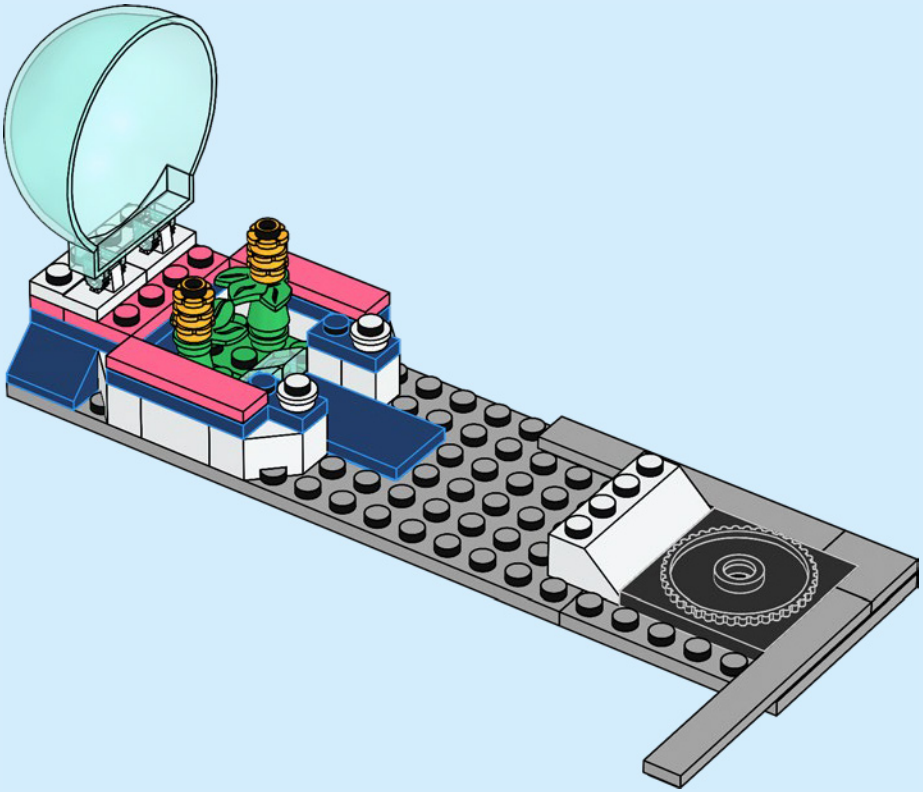


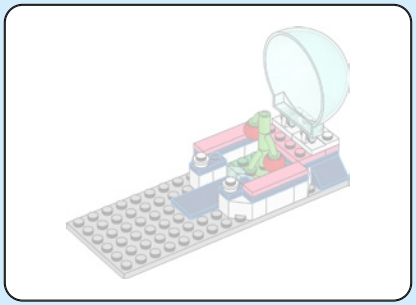


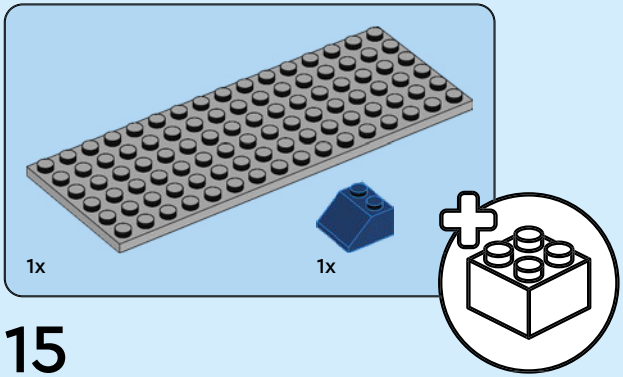


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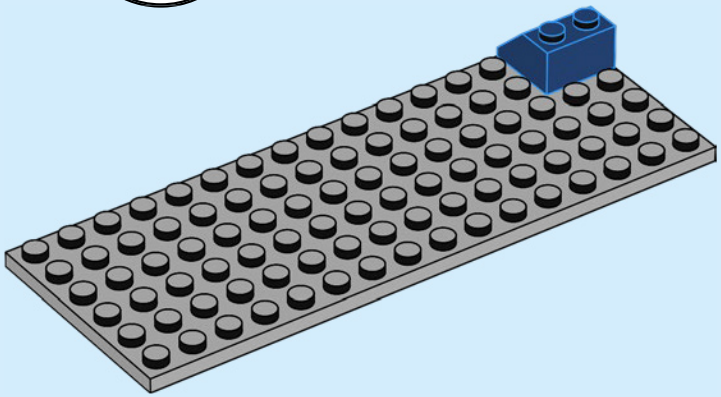
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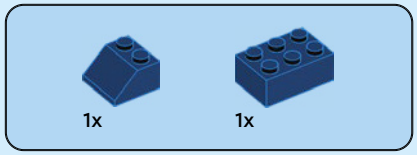




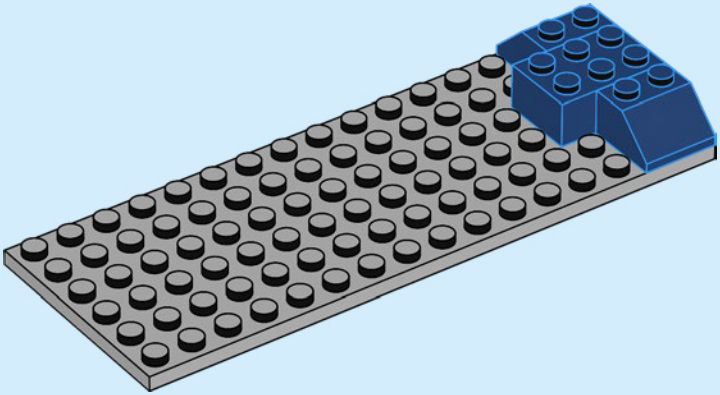


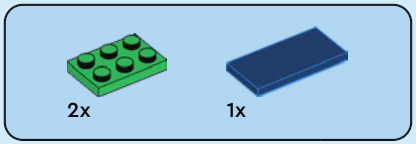
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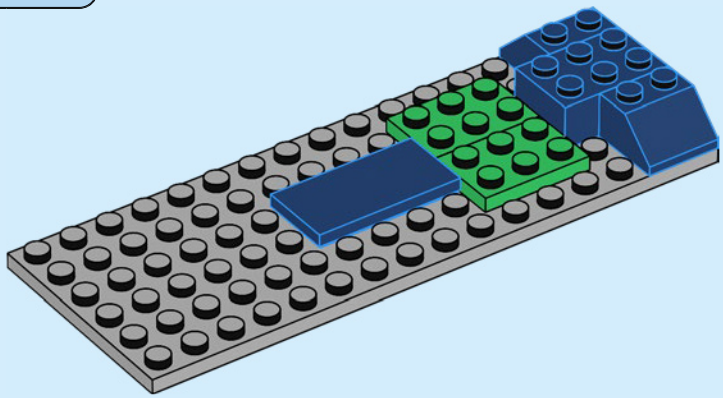


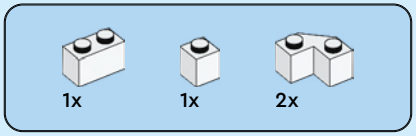
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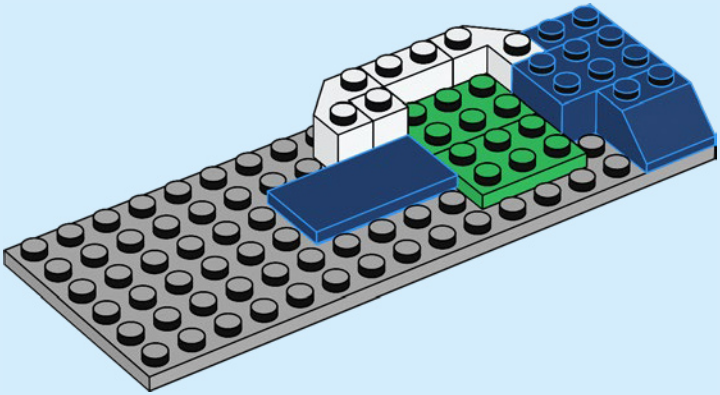


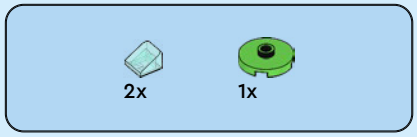
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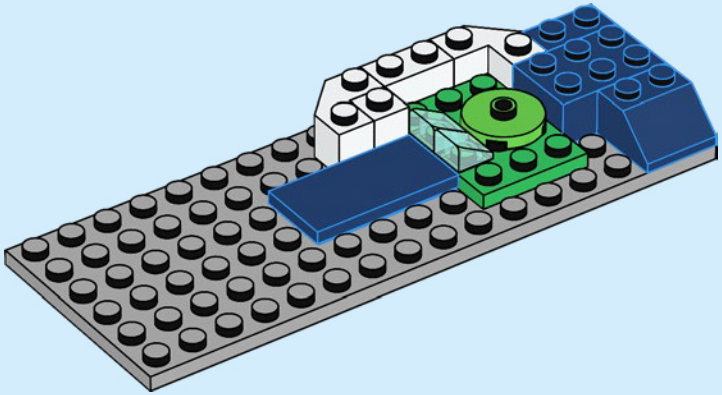


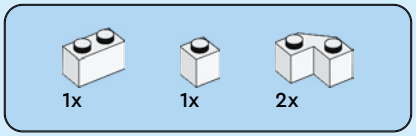
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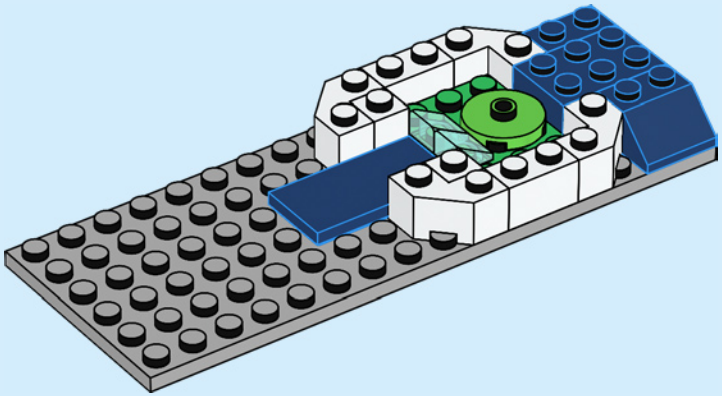


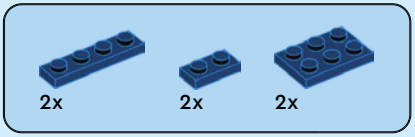
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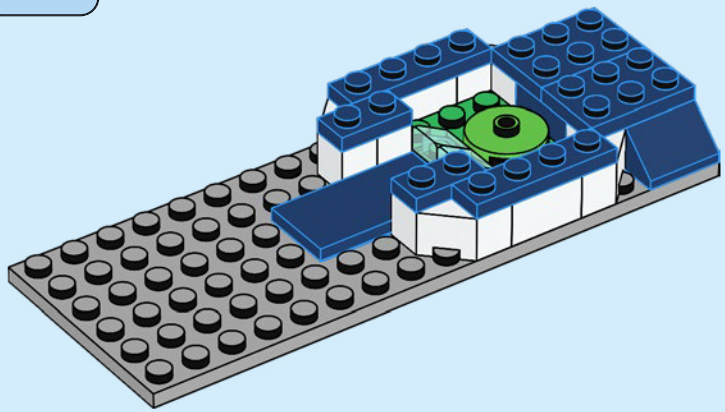


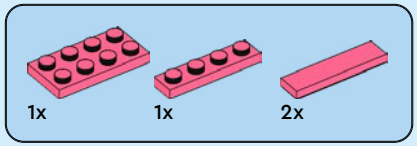
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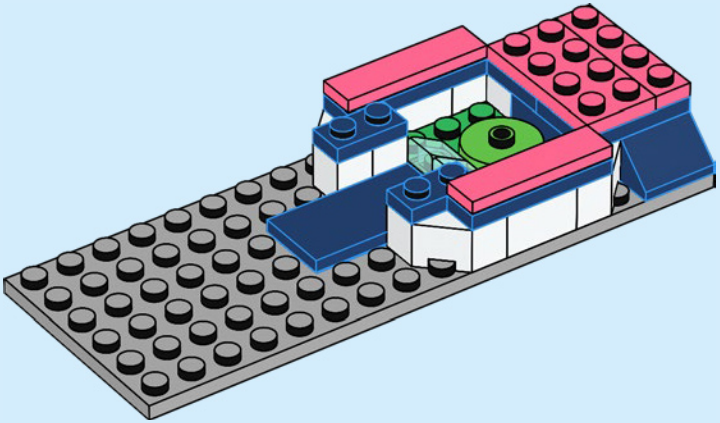


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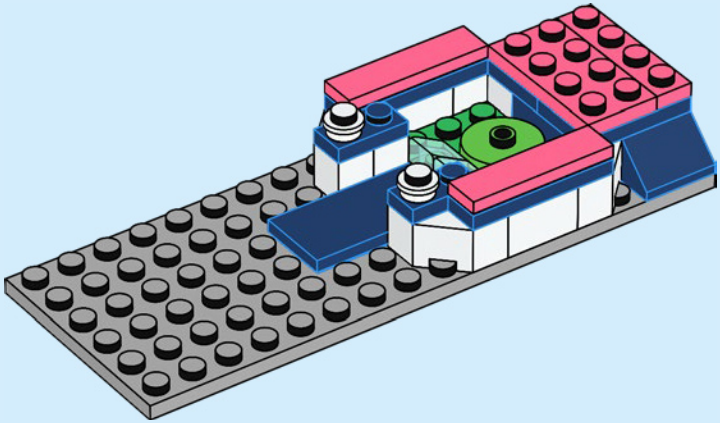


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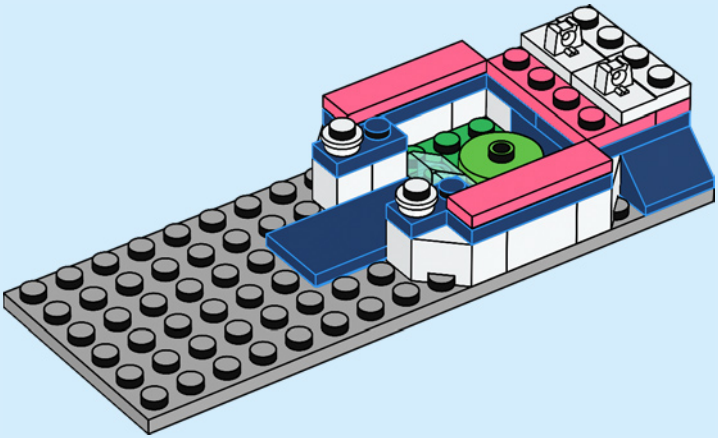
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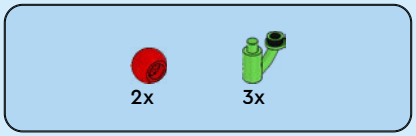




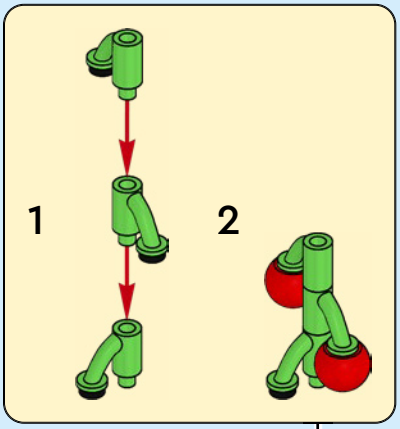
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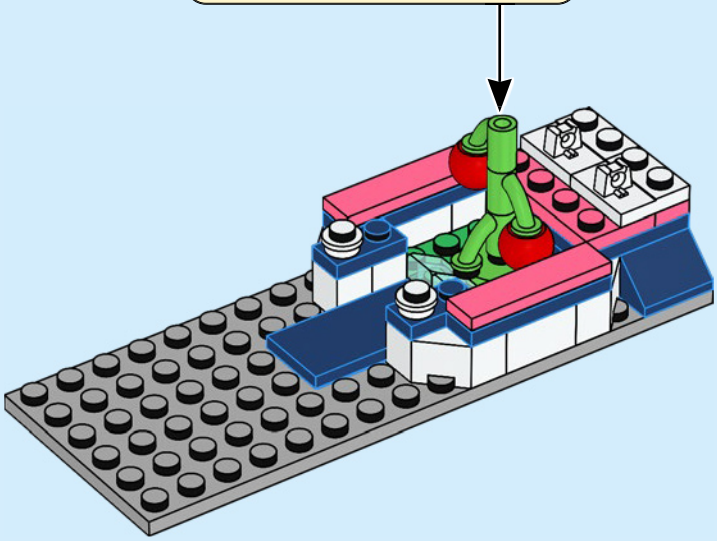
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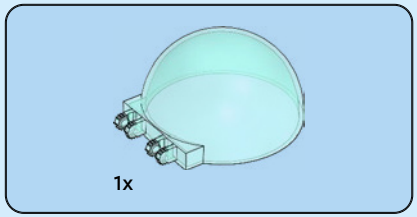




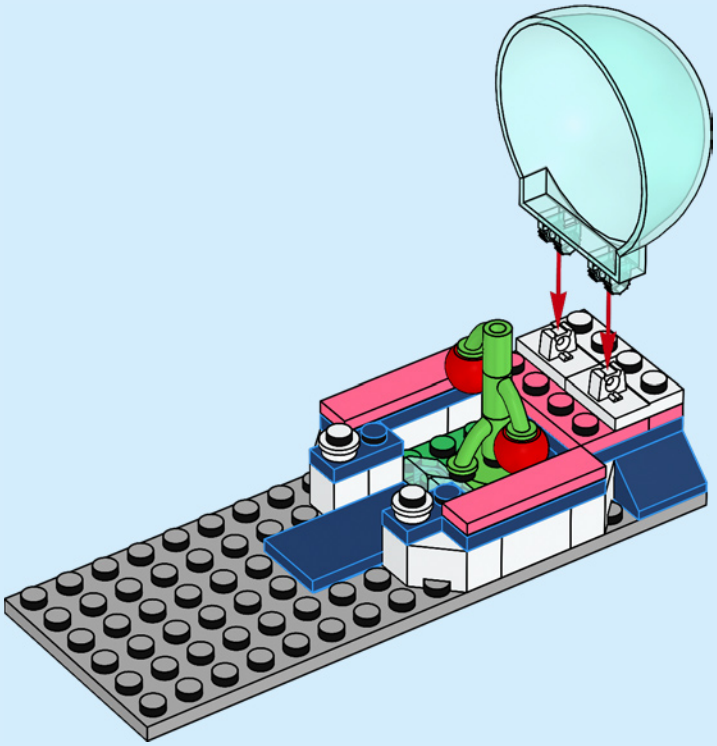
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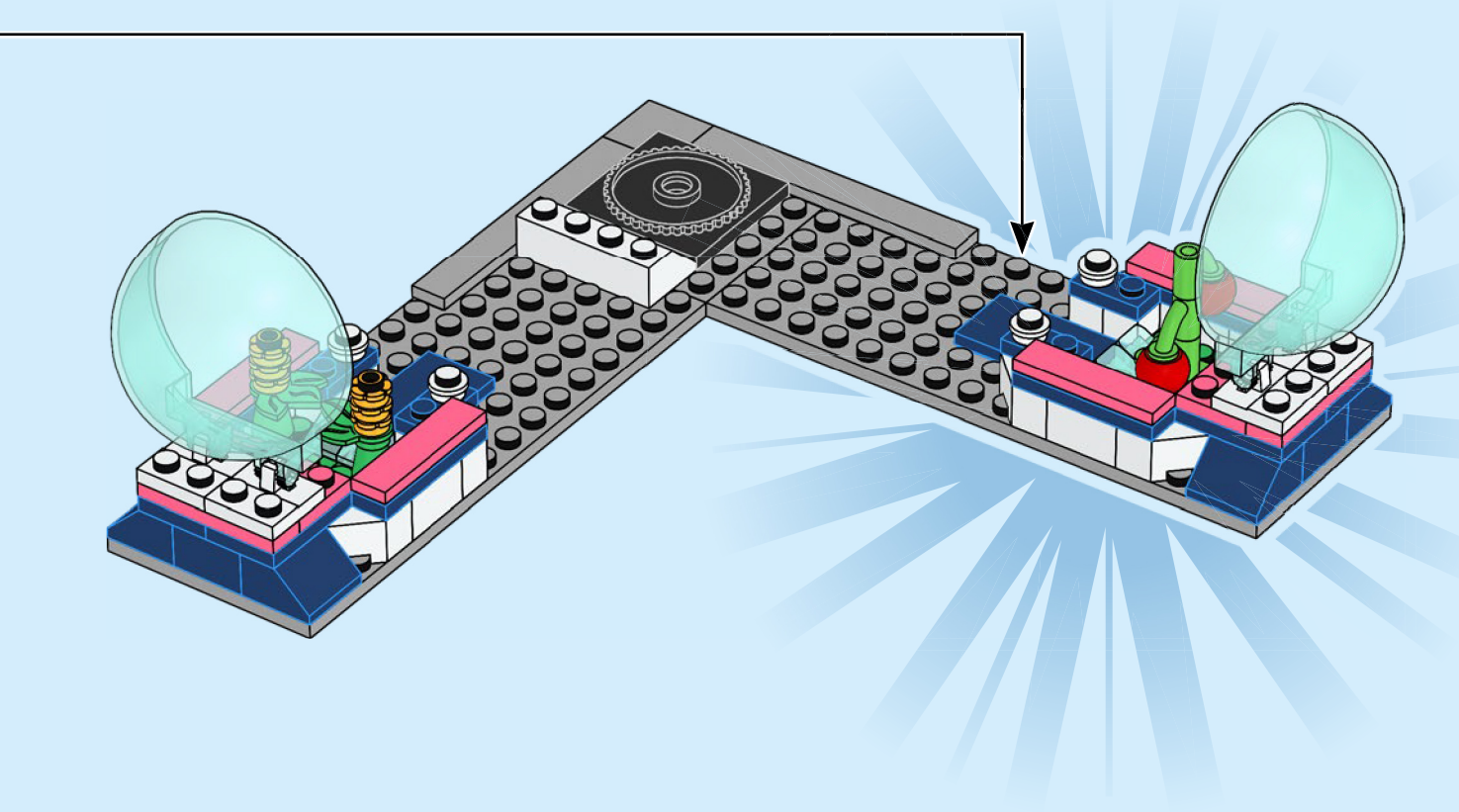


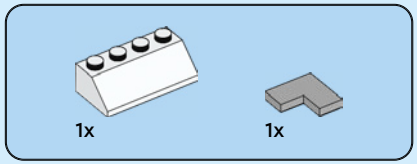


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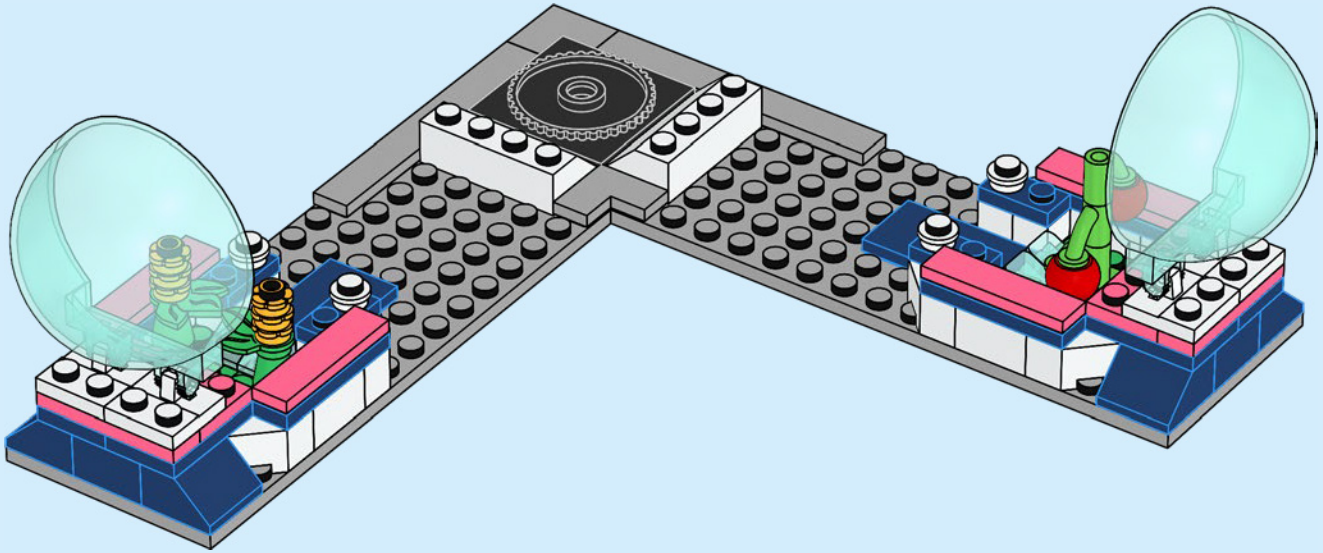


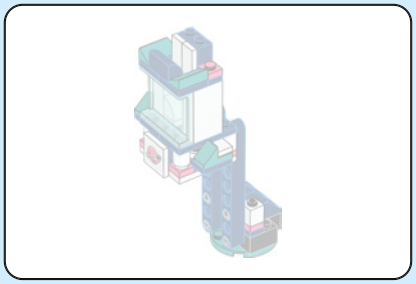
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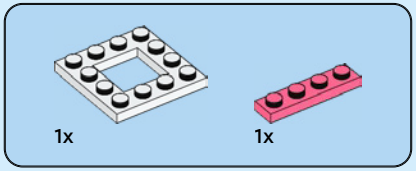




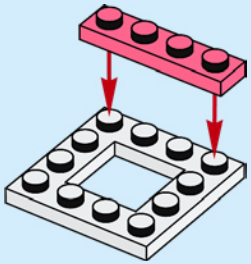
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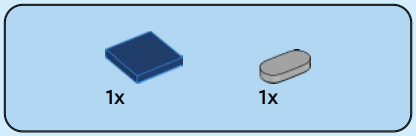




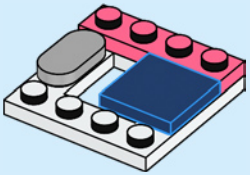


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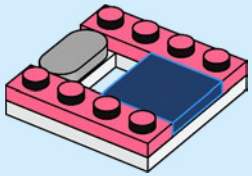


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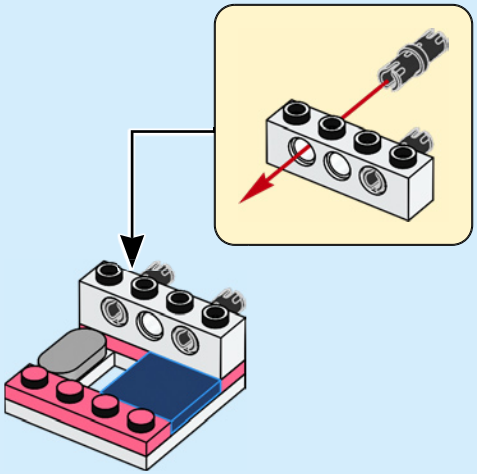


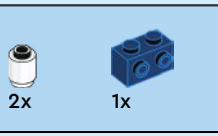
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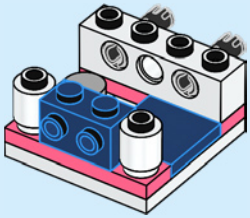


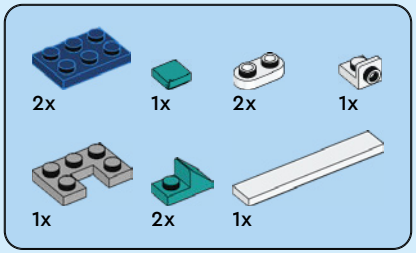
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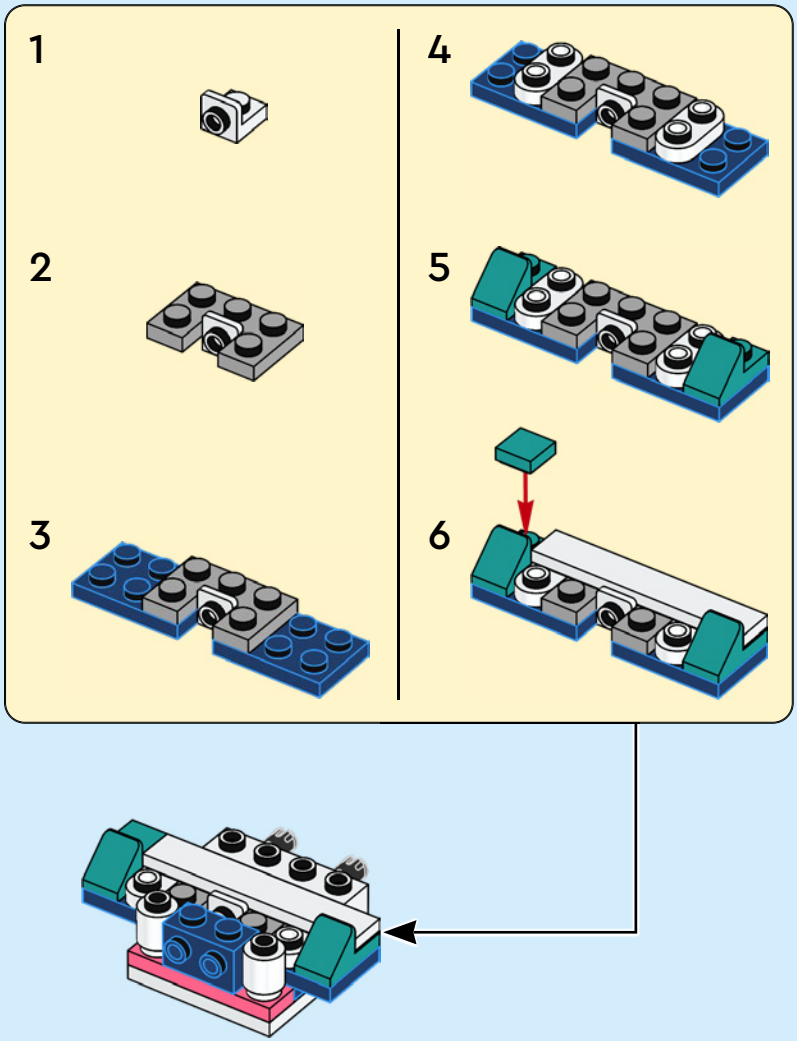


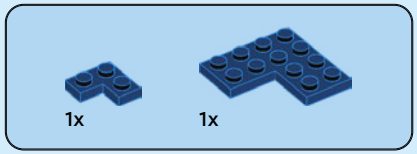
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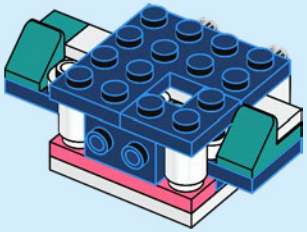


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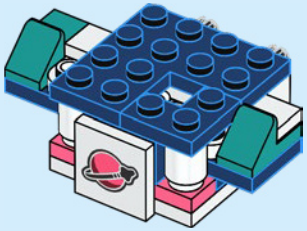


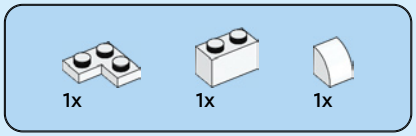
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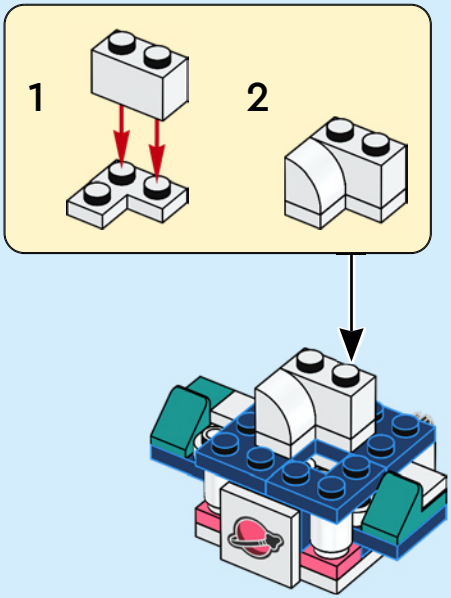


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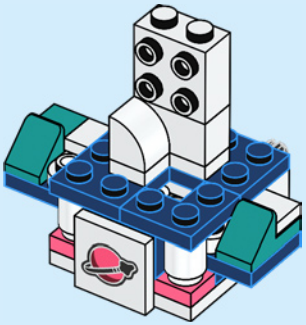
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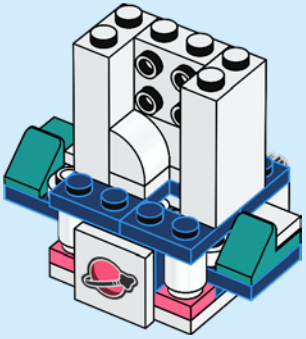
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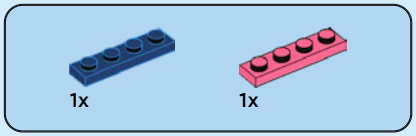




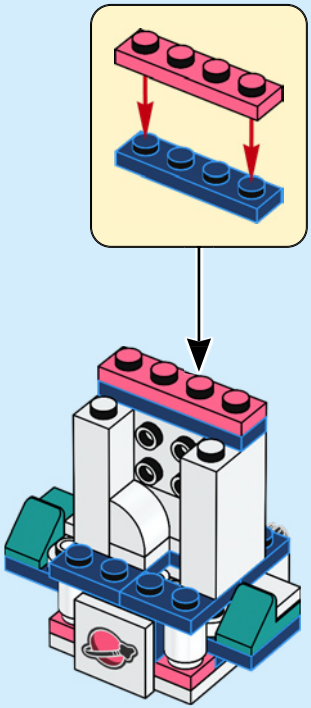
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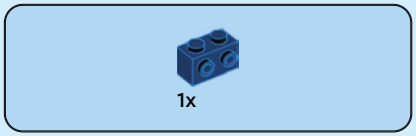
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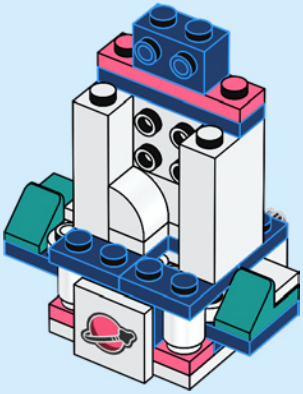


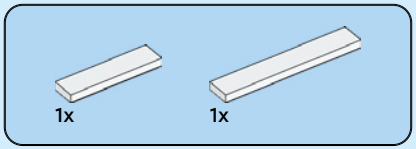
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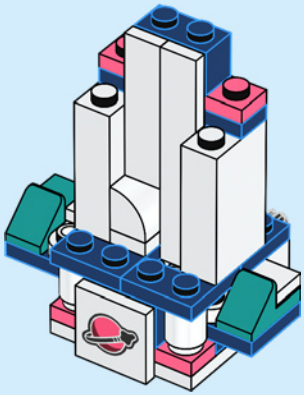


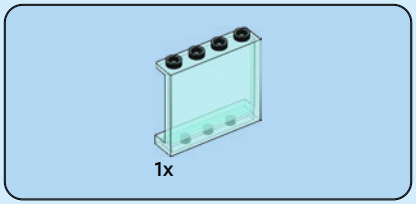
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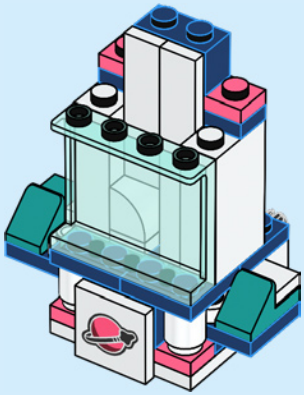


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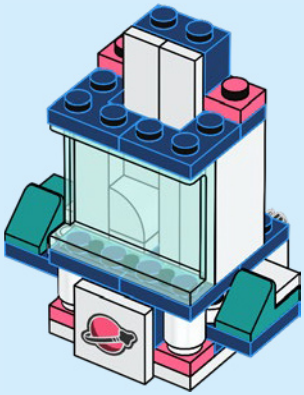


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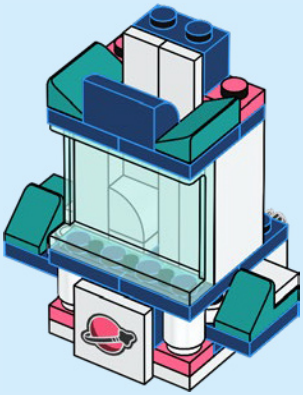


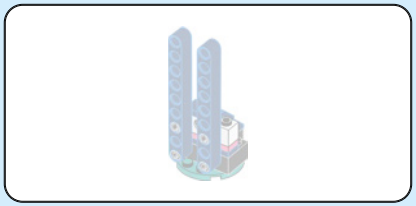
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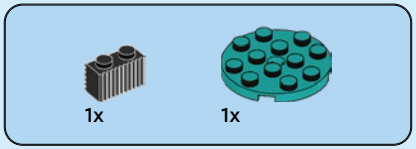




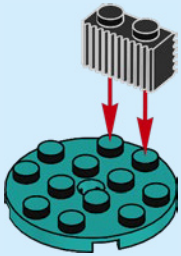
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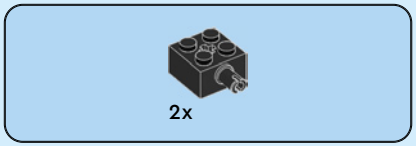




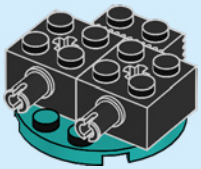


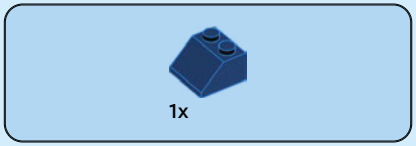
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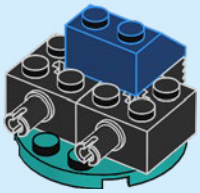


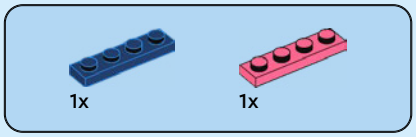
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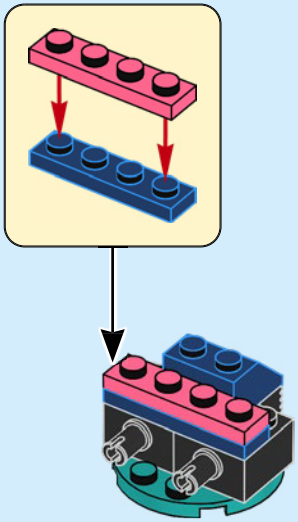


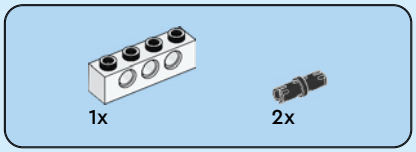
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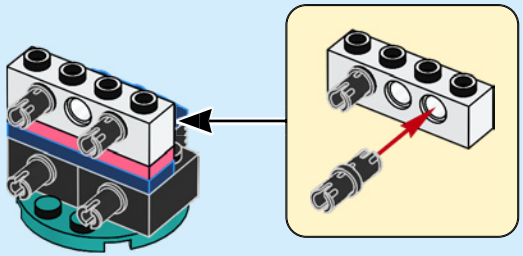


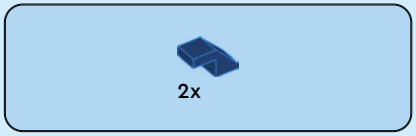
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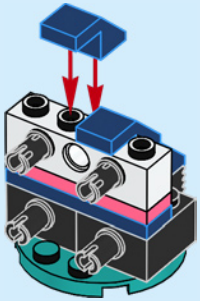


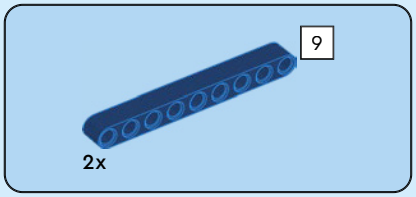
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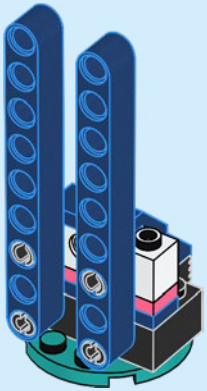


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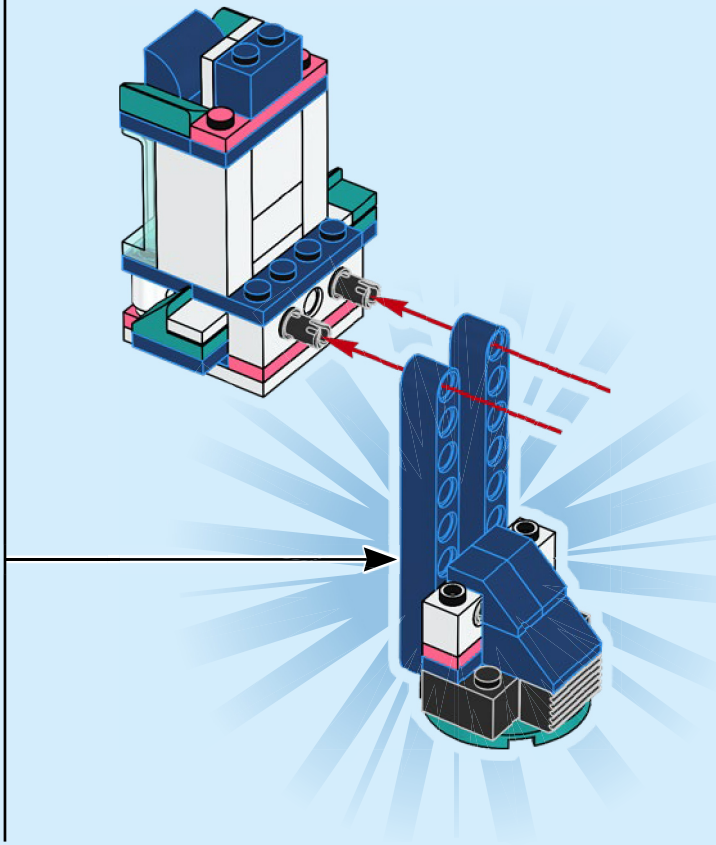


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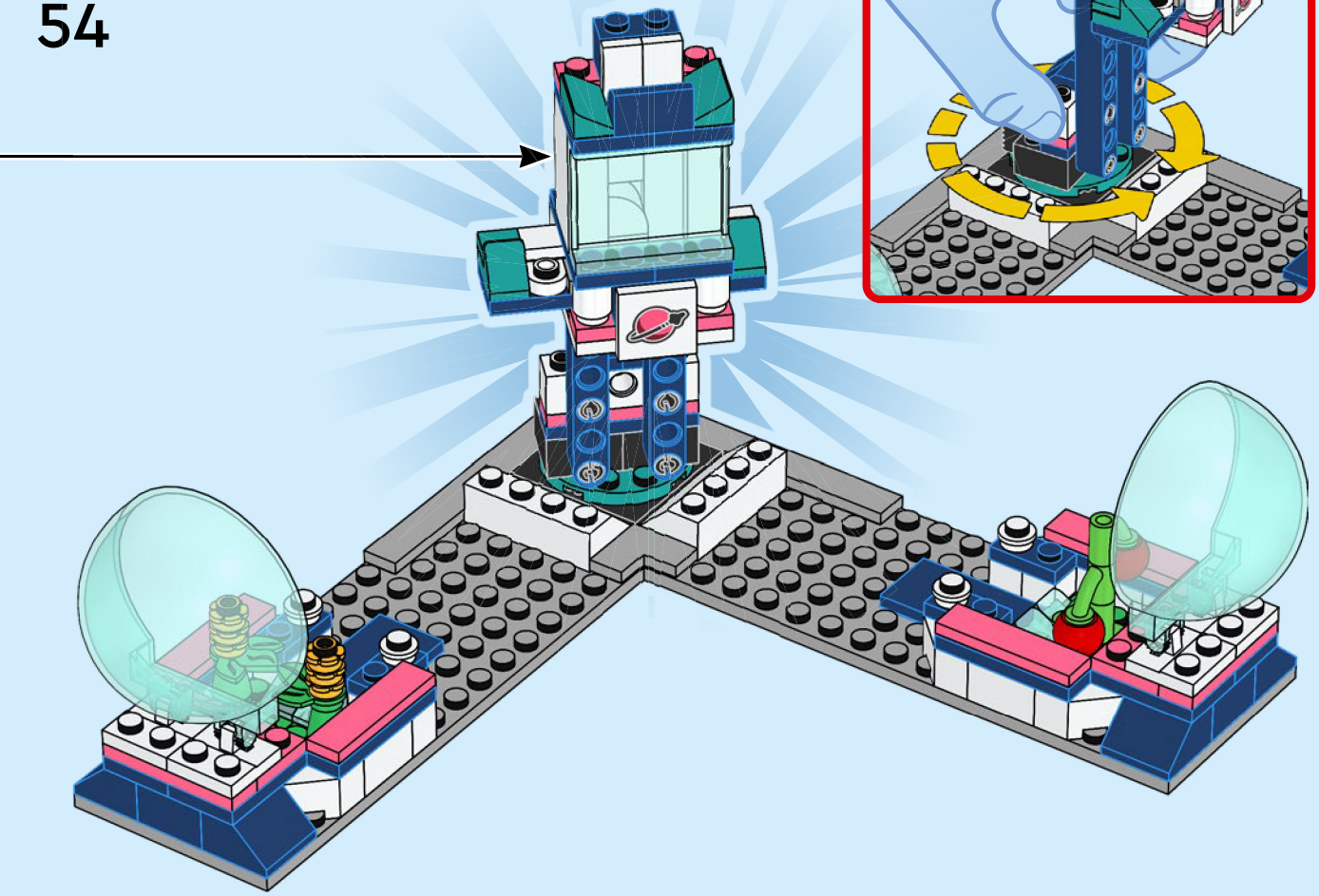


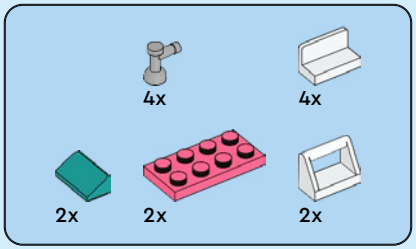
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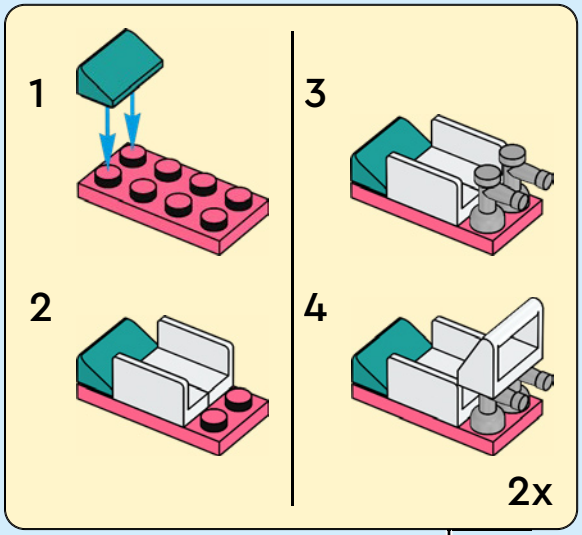


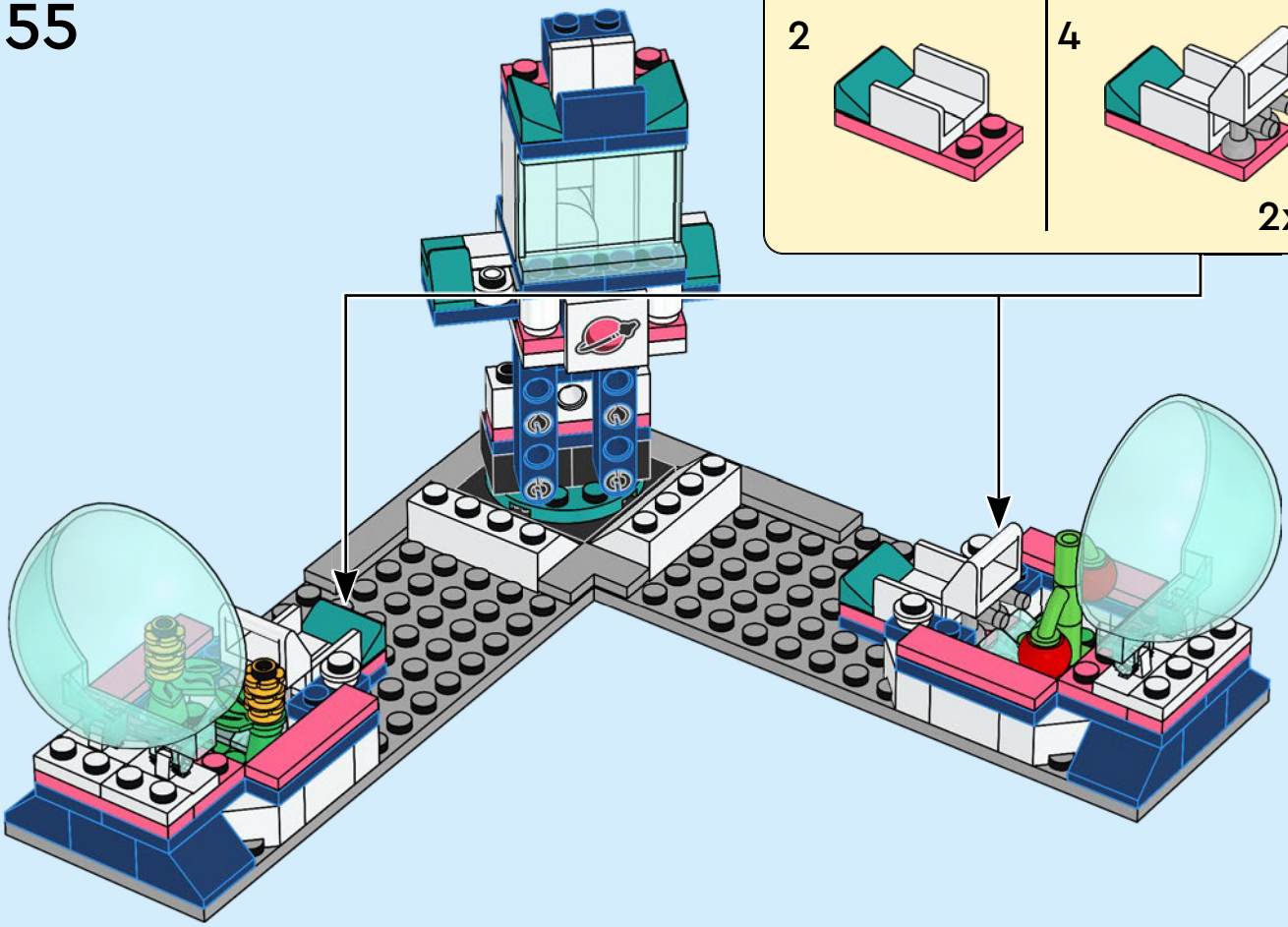
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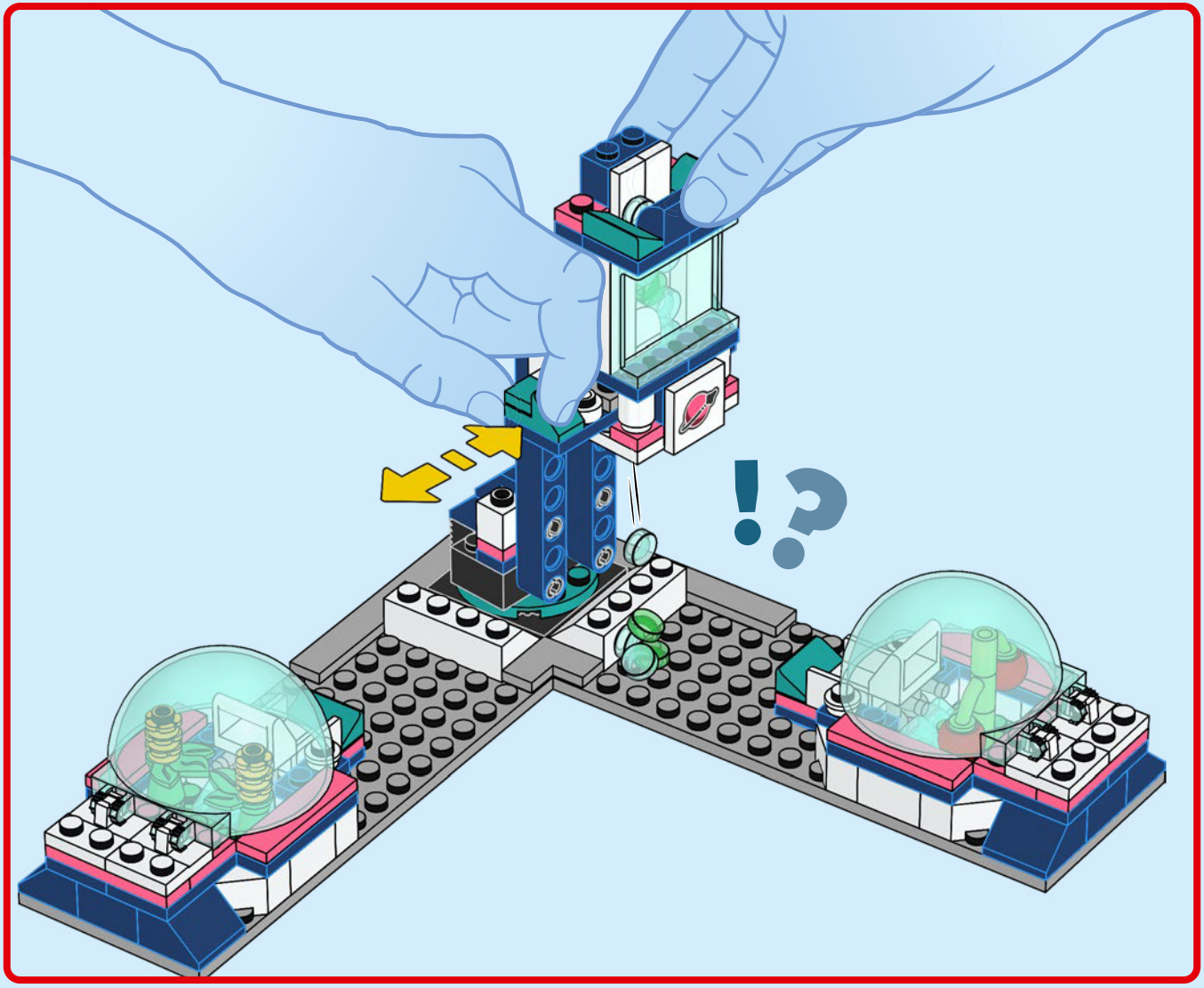
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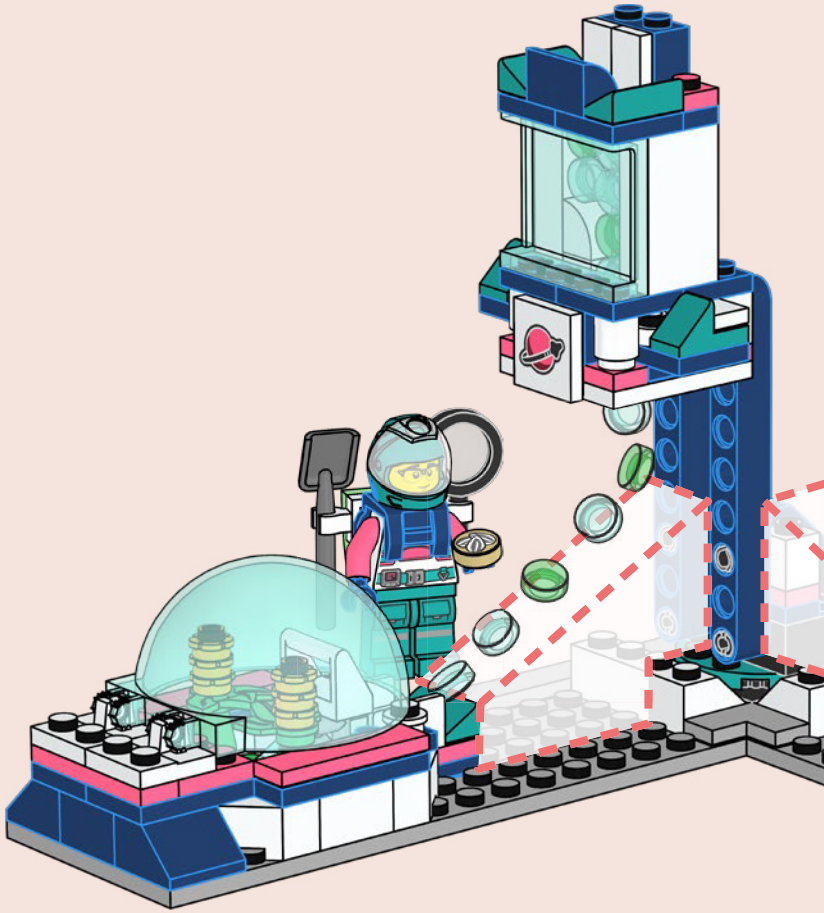


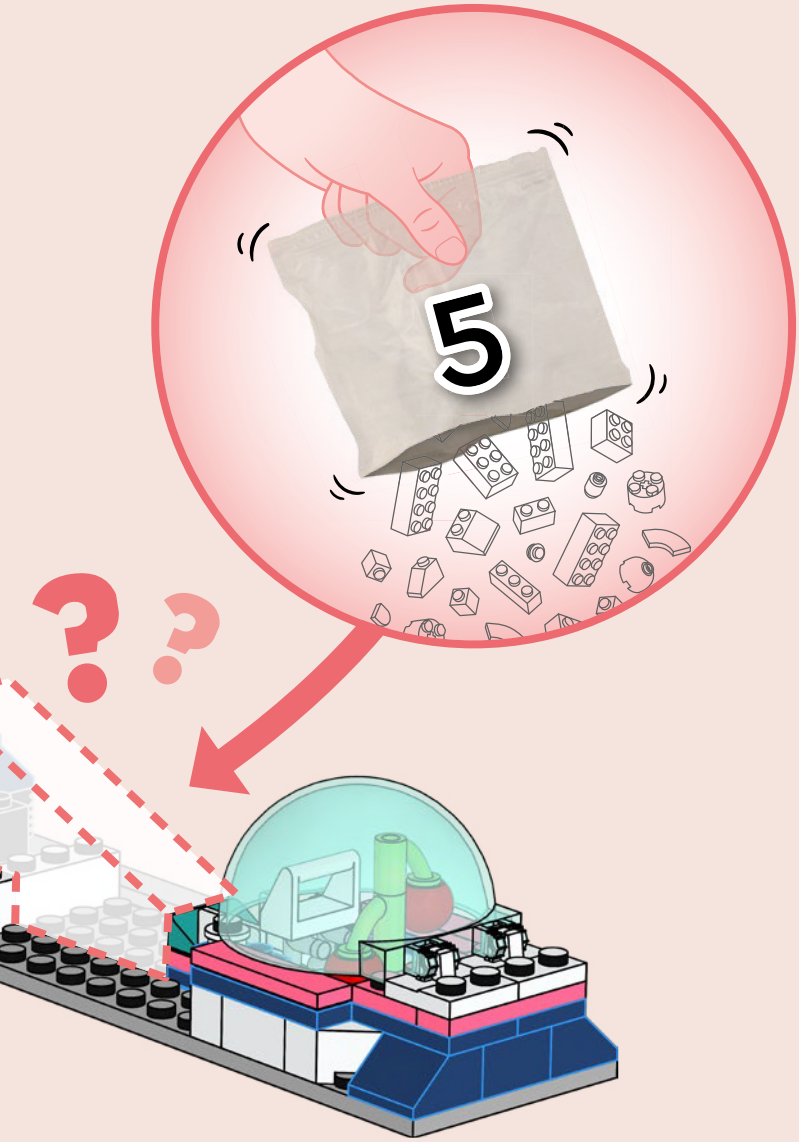

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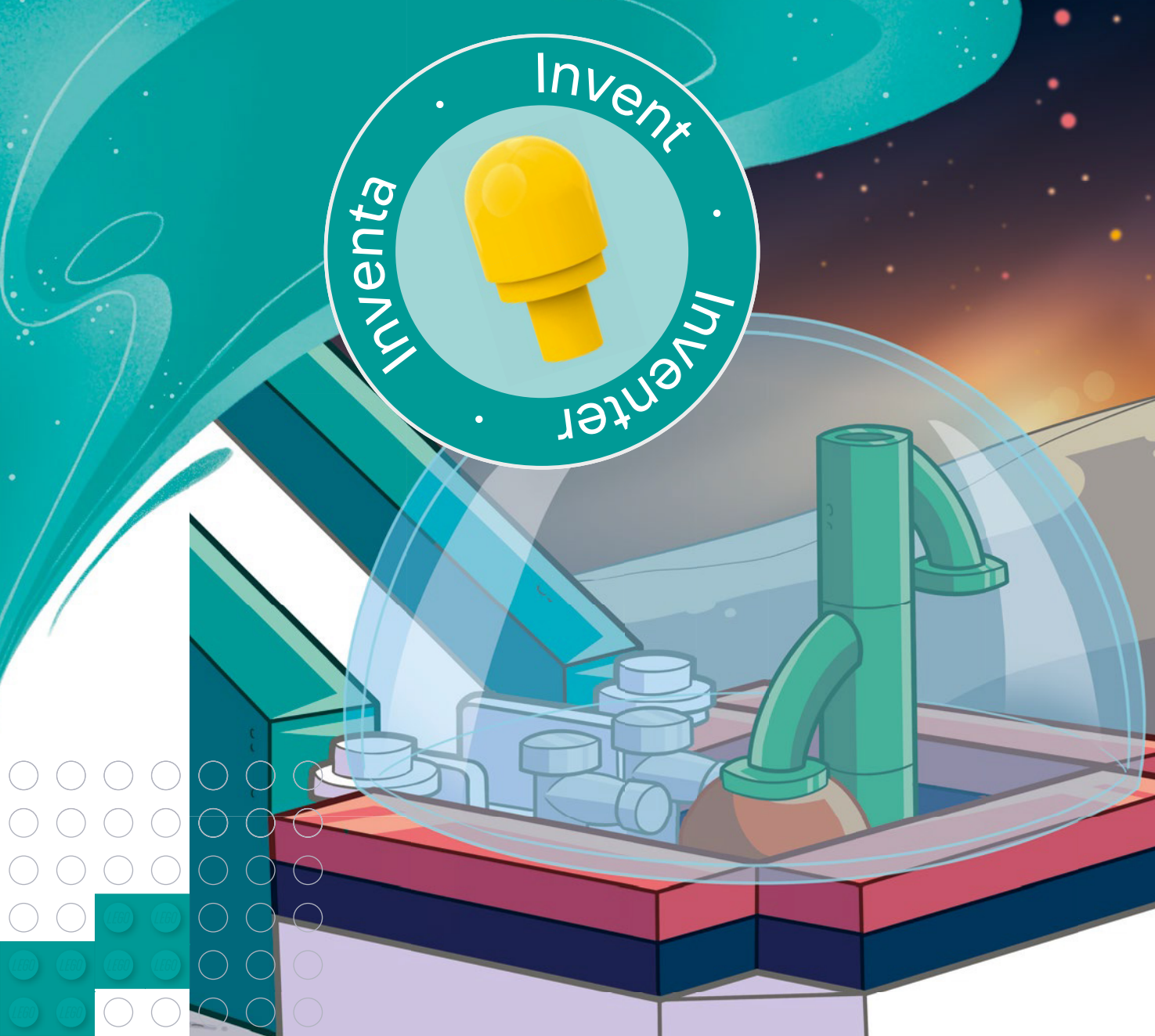


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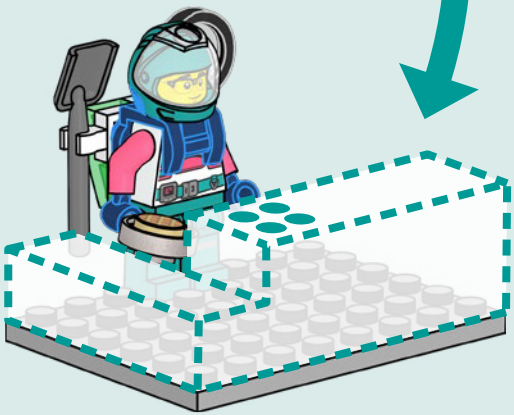




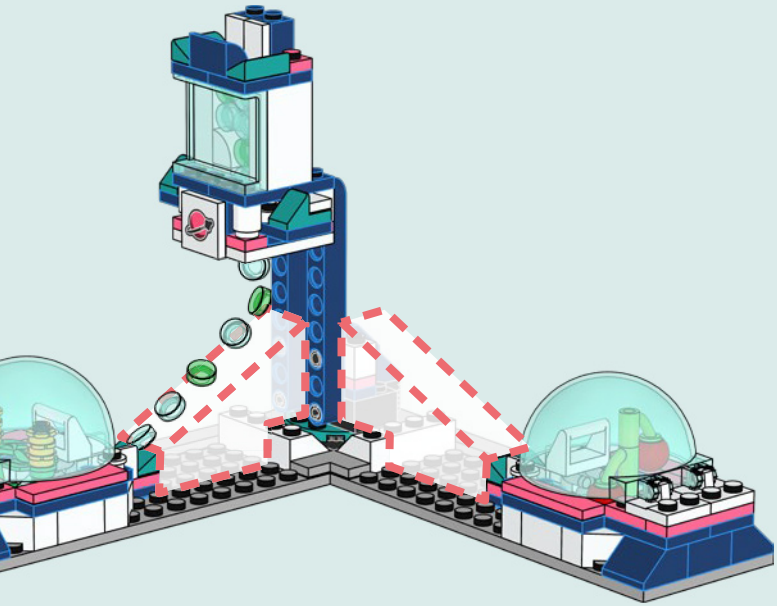
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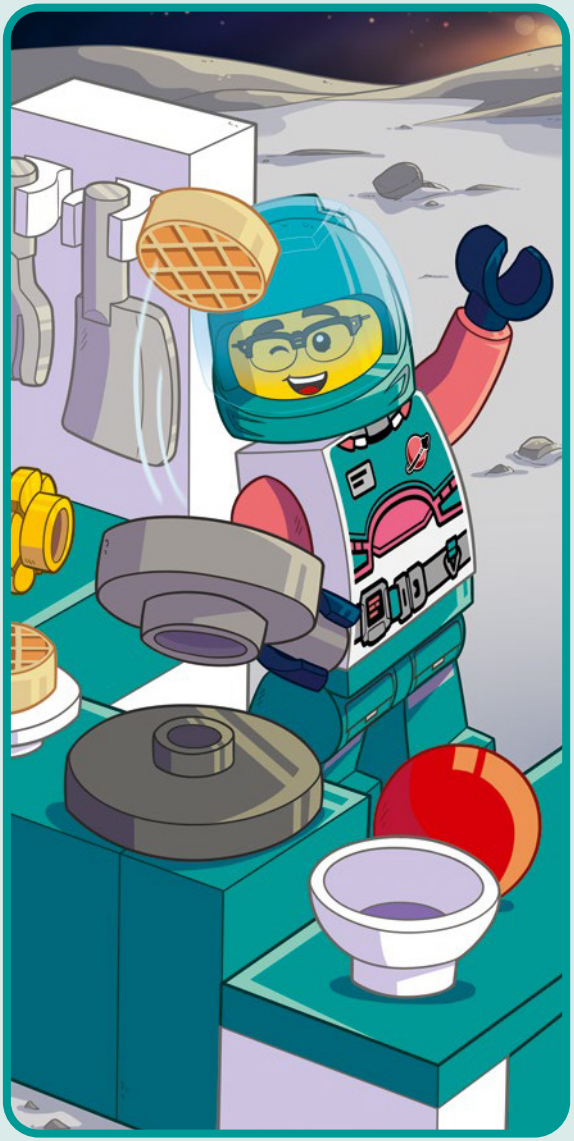


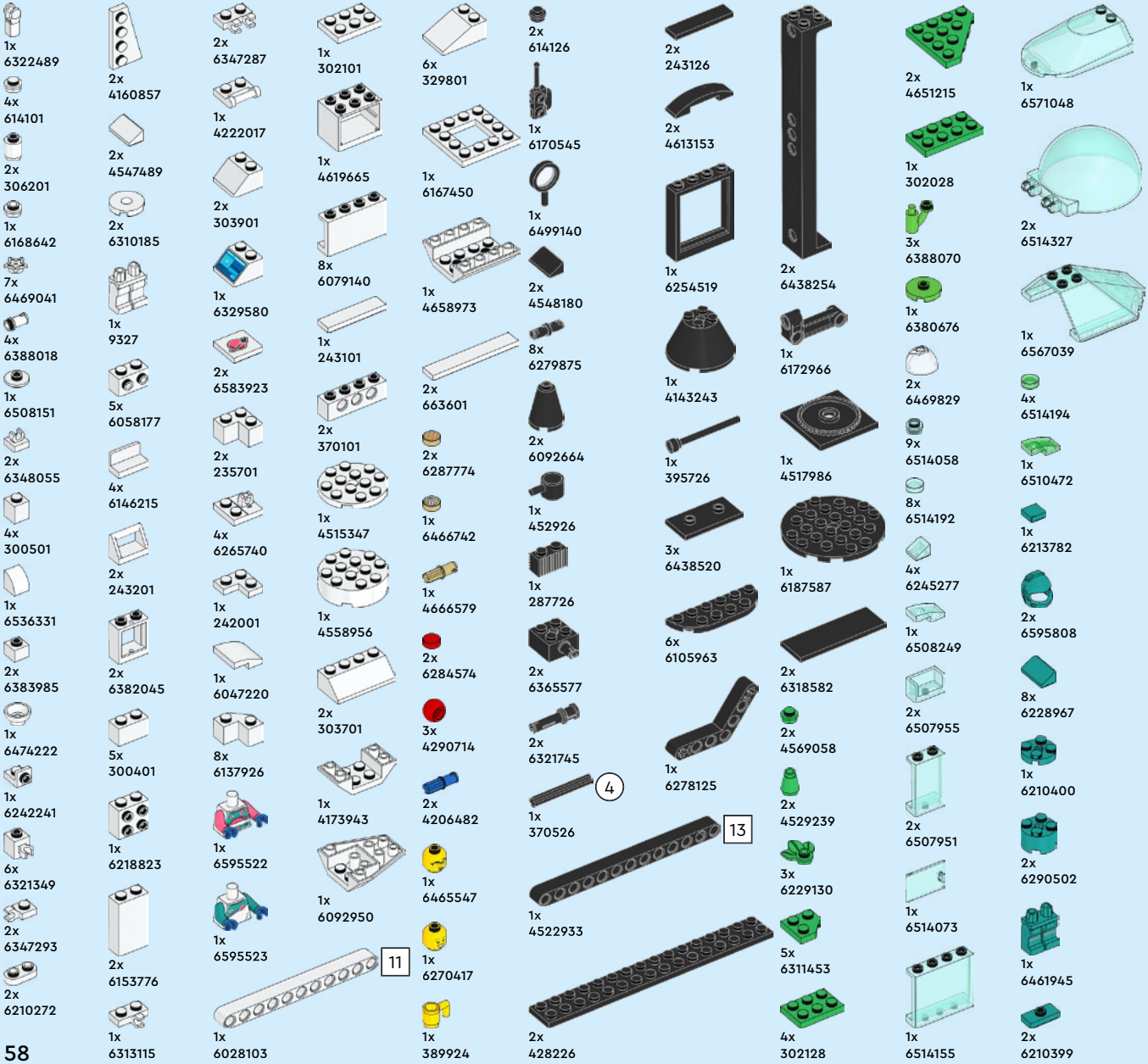


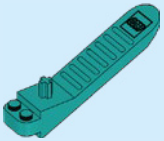









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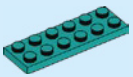

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