LEGO education

Build Solve Invent

45202



3

How would we stay safe on Mars?

This Physical Science experiment is based on changes that occur when objects collide. Collisions can cause differences we can observe, such as changes to an object's motion, speed, direction or sound. On Mars, the high-speed wind blows dust and rocks around the planet, making collisions a big problem!

Build

Build: Build a Mars base with special equipment to gather information and conduct experiments.

Solve

Solve: Create a structure that will keep the equipment safe from flying rocks on Mars.

Invent

Invent: Design and protect a communication tower for the astronaut.

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

- Did the structure protect the equipment? Why or why not?
- Why do you think the astronaut needs a communication tower?
- Astronauts need to eat, sleep, make food and stay clean in space. What supplies would they need?



Comment pourrions-nous rester en sécurité sur Mars?

Cette expérience de sciences physiques est basée sur les changements qui se produisent lorsque des objets entrent en collision. Les collisions peuvent provoquer des différences que nous pouvons observer, telles que des changements dans le mouvement, la vitesse, la direction ou le son d'un objet. Sur Mars, le vent à grande vitesse souffle de la poussière et des roches autour de la planète, et les collisions sont donc un gros problème!

Construire

Construire : Construisez une base martienne avec des équipements spéciaux pour recueillir des informations et mener des expériences.

Résoudre

Résoudre : Créez une structure qui protégera l'équipement des roches volantes sur Mars.

Inventer

Inventer : Concevez et protégez une tour de communication pour l'astronaute.

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

- La structure a-t-elle protégé l'équipement? Pourquoi ou pourquoi pas?
- Pourquoi penses-tu que l'astronaute a besoin d'une tour de communication?
- Dans l'espace, les astronautes ont besoin de manger, de dormir, de préparer de la nourriture et de rester propres. De quelles fournitures auraient-ils besoin?

¿Cómo podríamos vivir en Marte con seguridad?

Este experimento de ciencias físicas se centra en los cambios que ocurren cuando los objetos chocan. Las colisiones pueden provocar diferencias que podemos observar, como cambios en el movimiento, la velocidad, la dirección o el sonido de un objeto. Los fuertes vientos de Marte arrastran polvo y rocas por todo el planeta, ¡lo que hace que las colisiones sean un gran problema!



Construye: Construye una base en Marte con equipos especiales para recopilar información y hacer experimentos.



Resuelve: Crea una estructura que mantenga el equipo a salvo de las rocas que vuelan a gran velocidad en Marte.



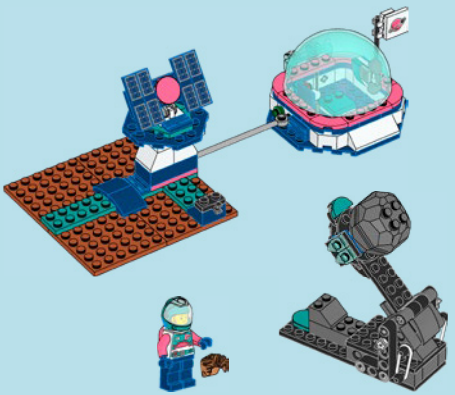
Inventa: Diseña y protege una torre de comunicaciones para el astronauta.

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

- ¿La estructura logró proteger el equipo? ¿Por qué sí o por qué no?
- ¿Por qué crees que el astronauta necesite una torre de comunicaciones?
- Los astronautas necesitan comer, dormir, preparar su comida y mantenerse limpios en el espacio. ¿Qué provisiones necesitarían?

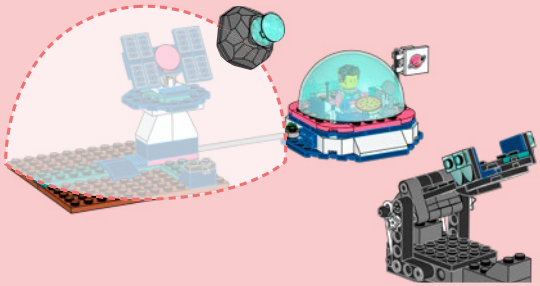
Build · Construire · Construye ·

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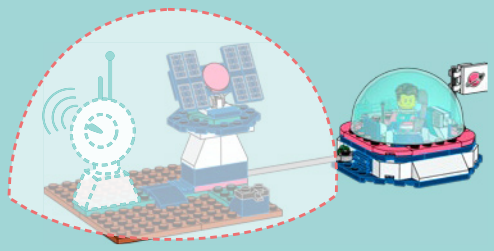
Solve · Résoudre · Resuelve

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Invent · Inventer · Inventa

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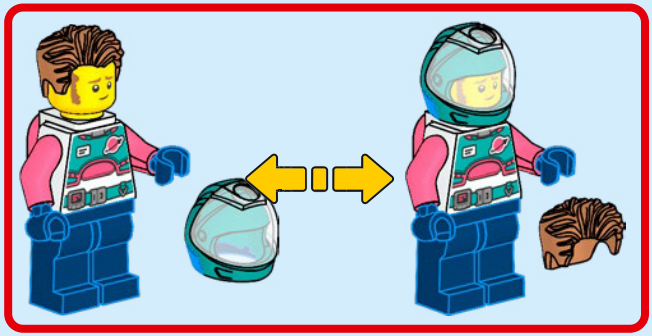


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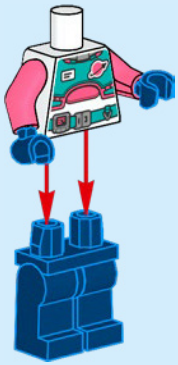




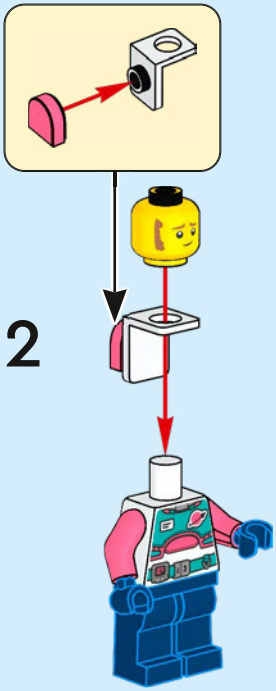

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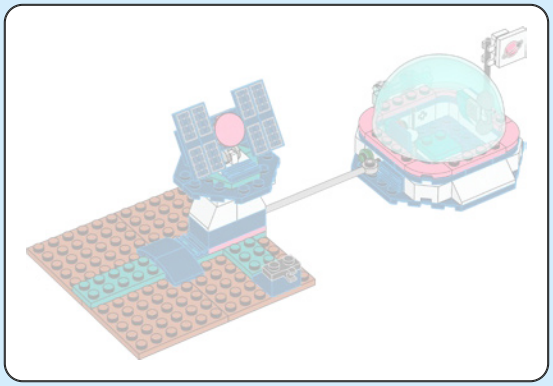


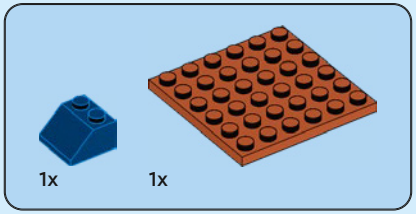
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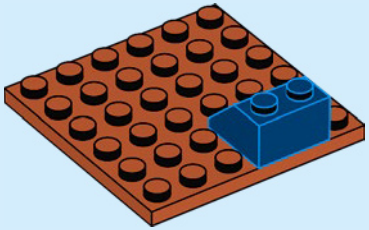
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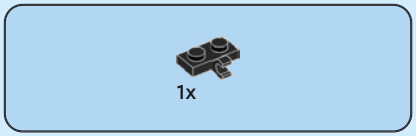




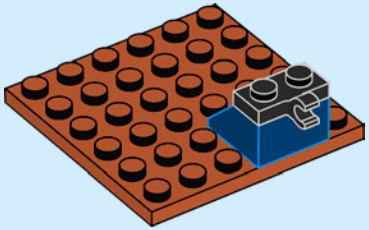


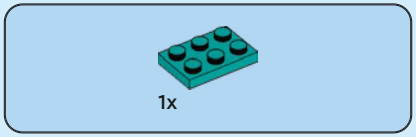
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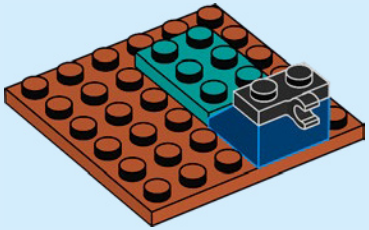


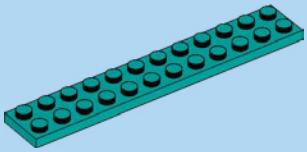
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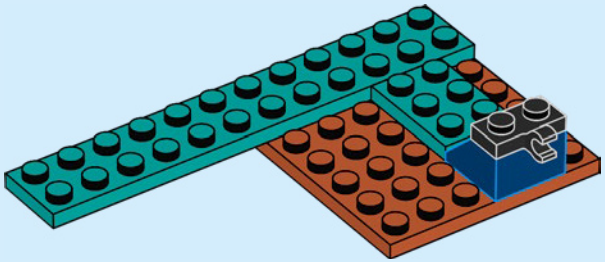
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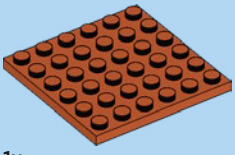




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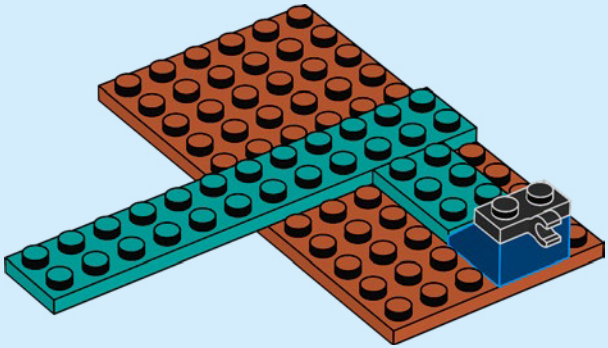
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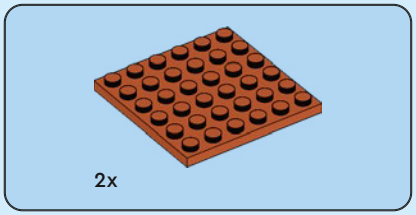




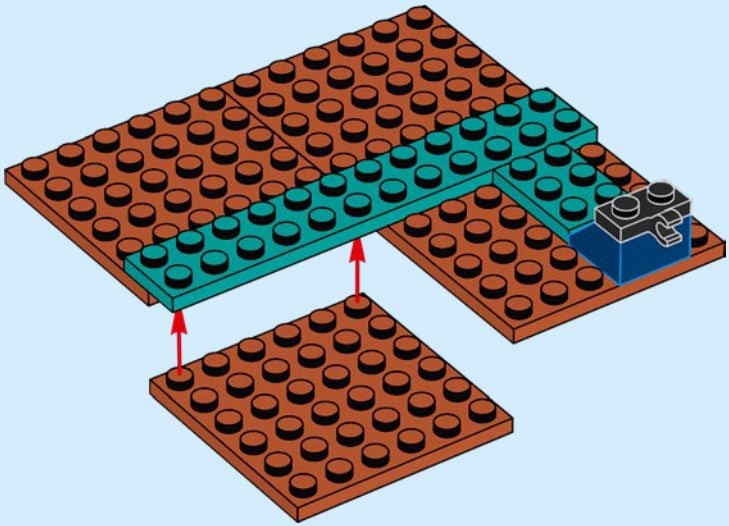
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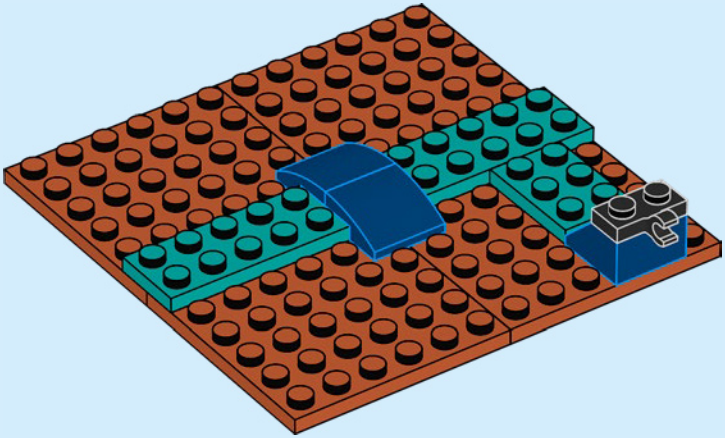


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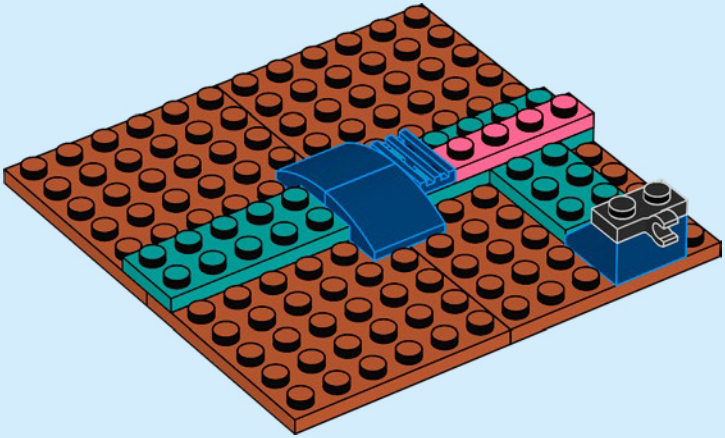
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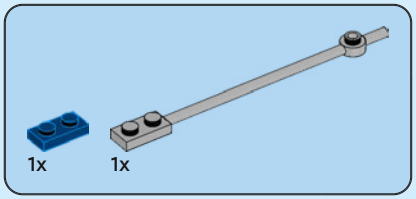




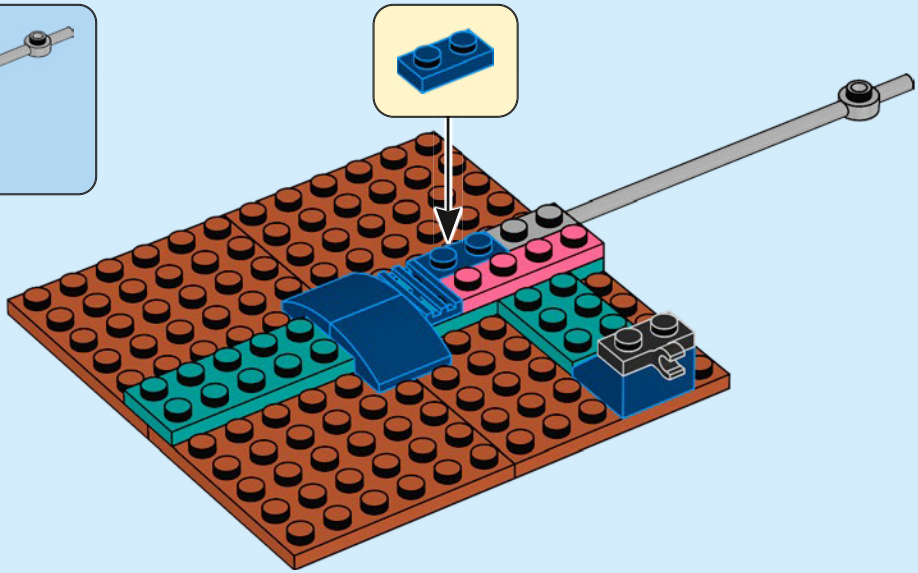


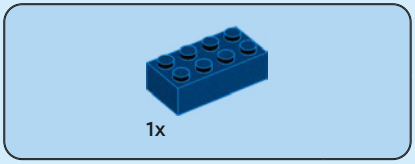
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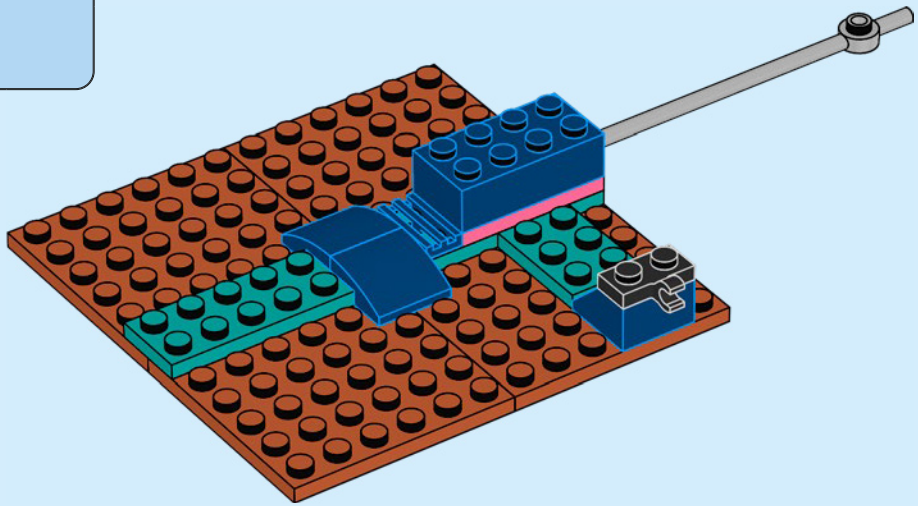


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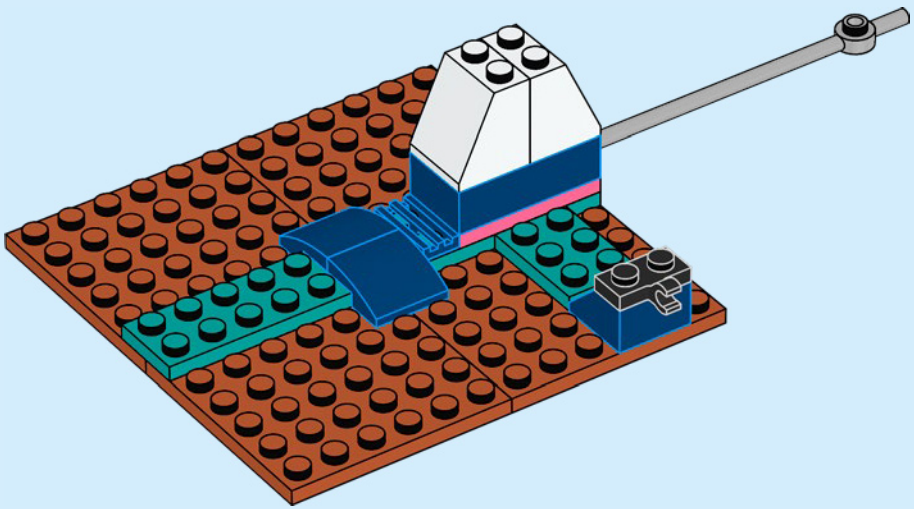
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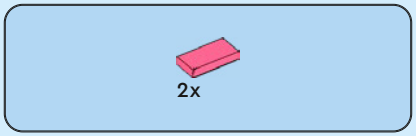




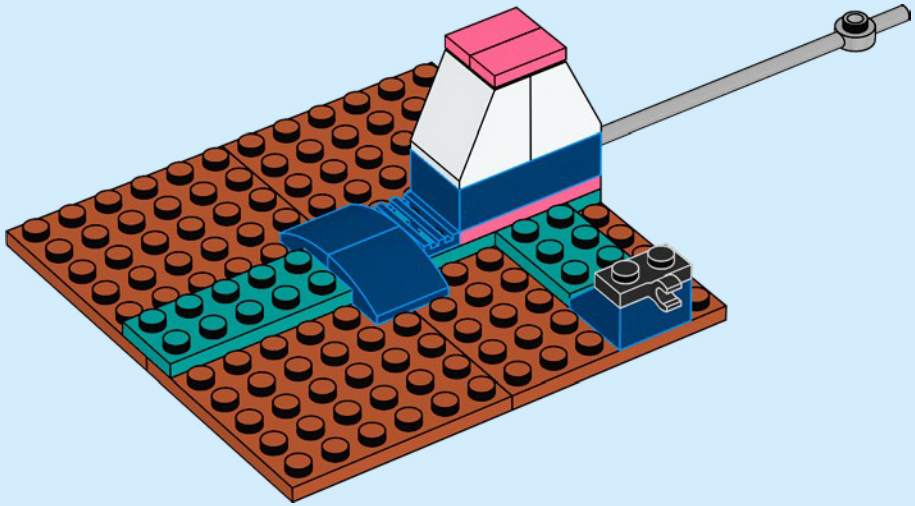
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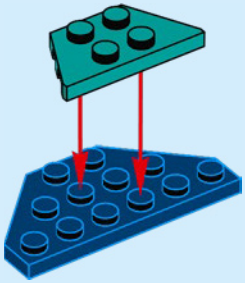
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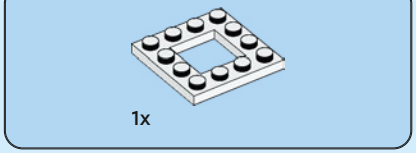




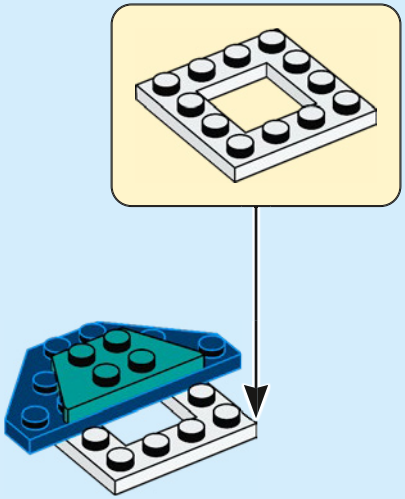


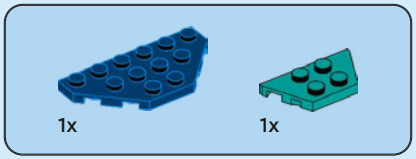
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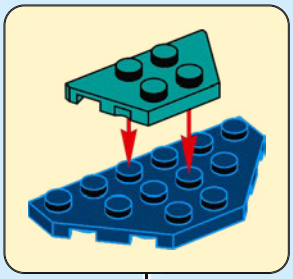


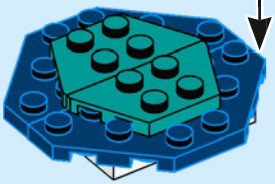
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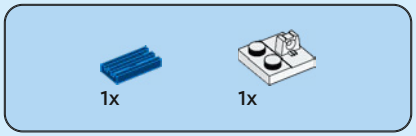




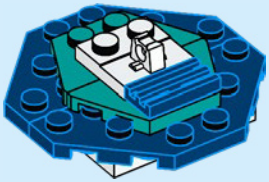
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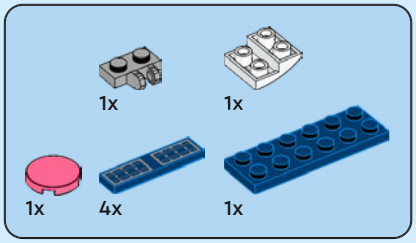




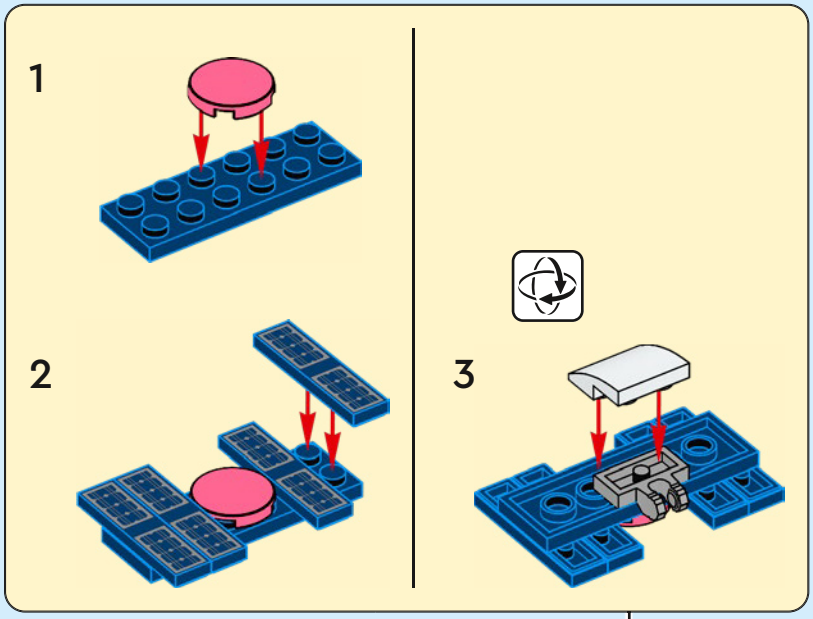


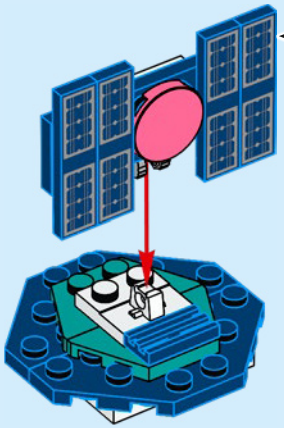
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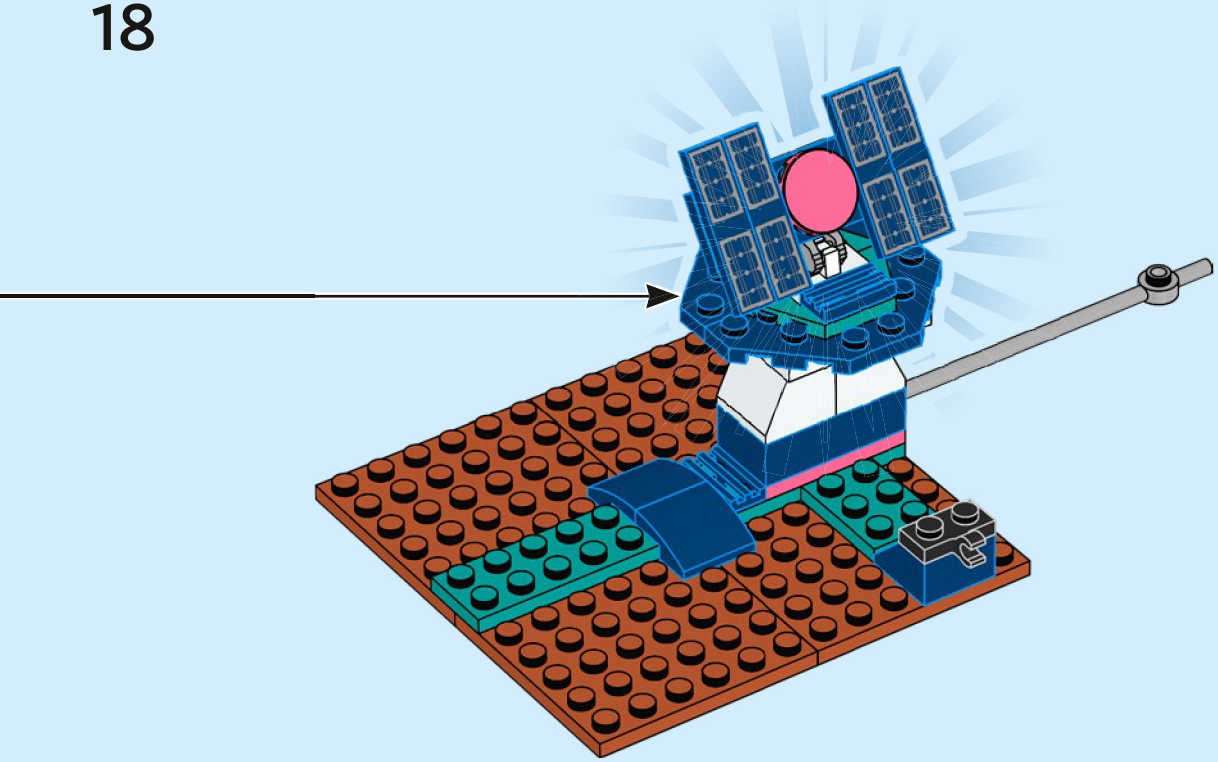


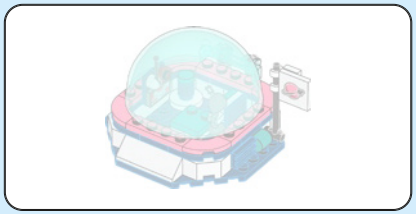
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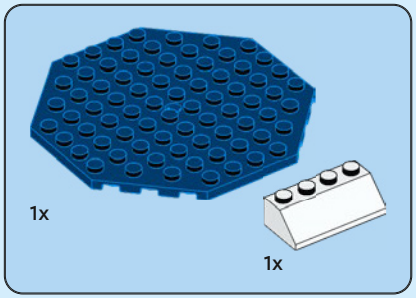




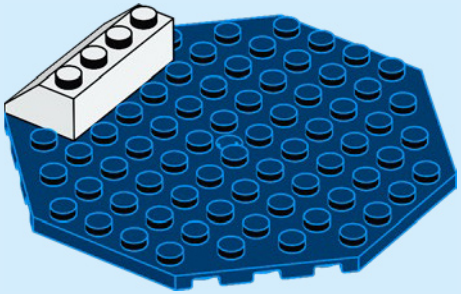
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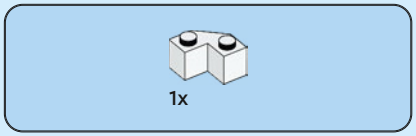




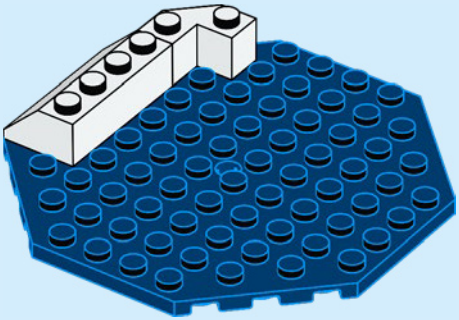


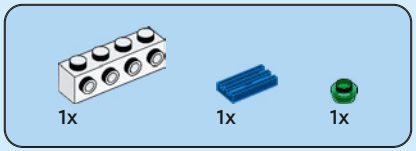
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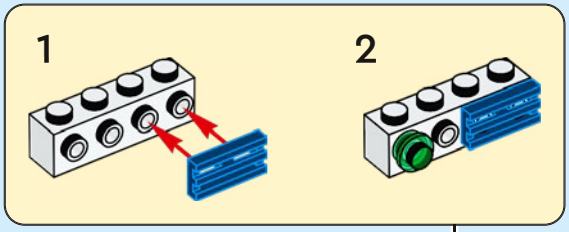


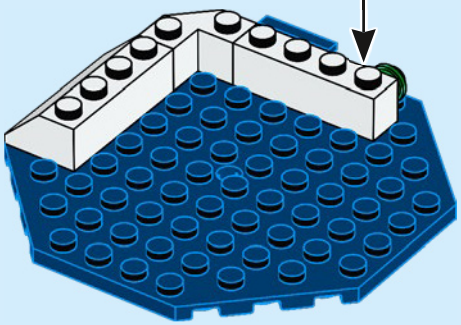
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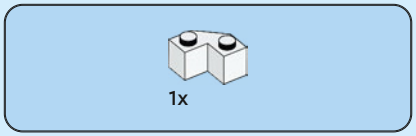




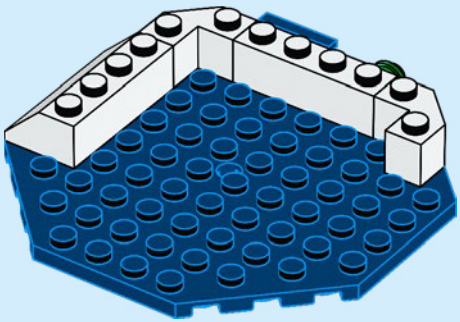
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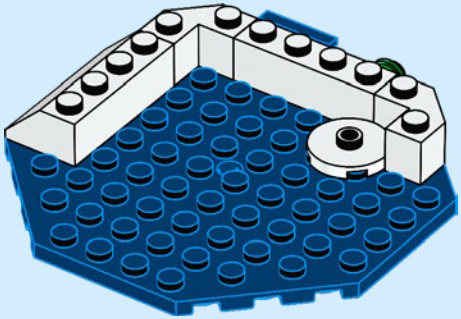


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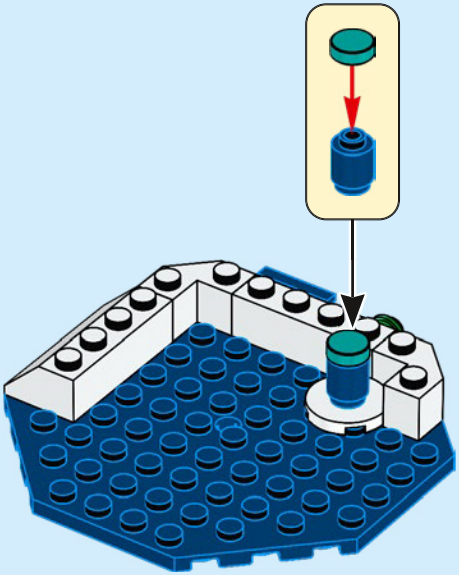


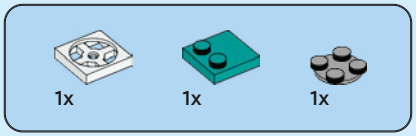
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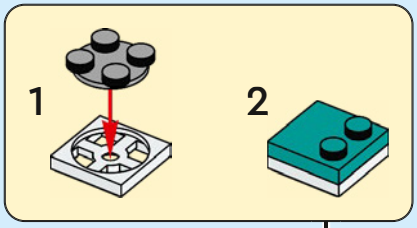


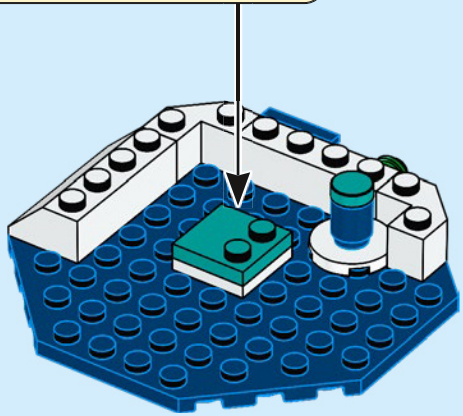
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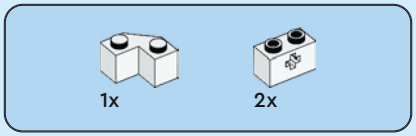




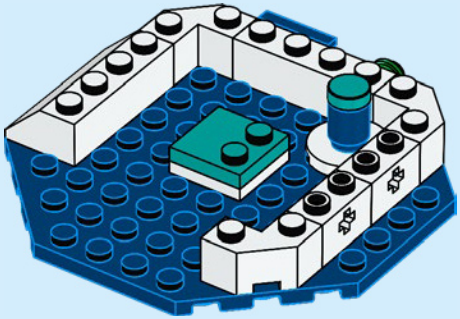
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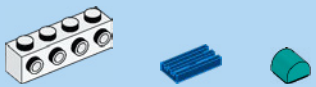




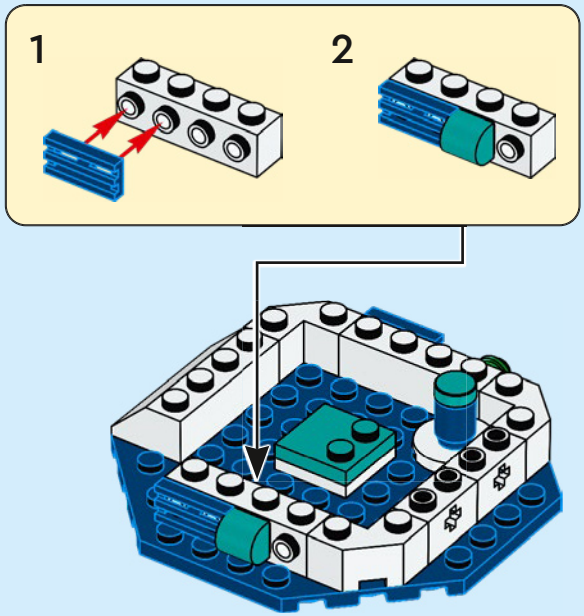


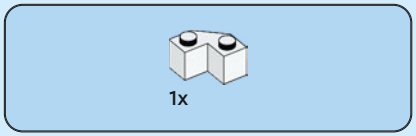
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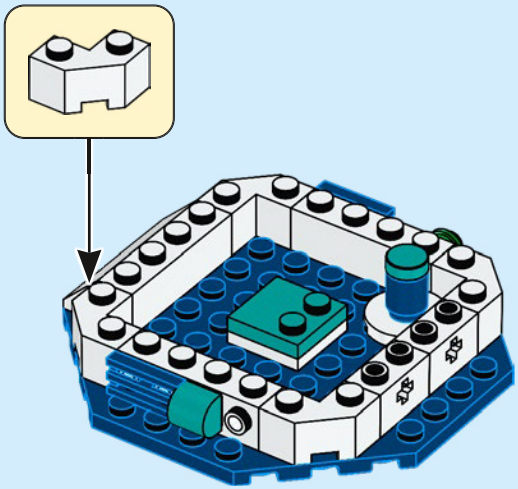


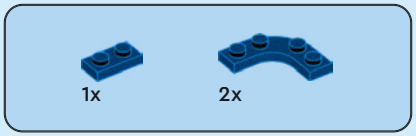
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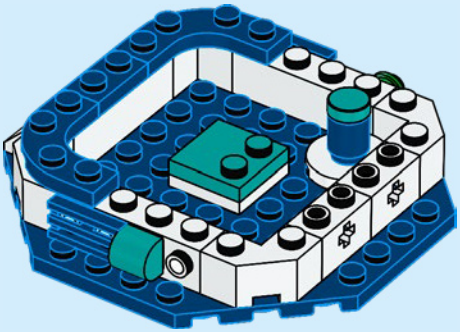


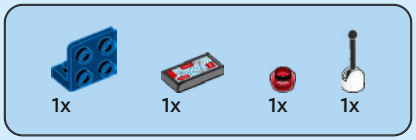
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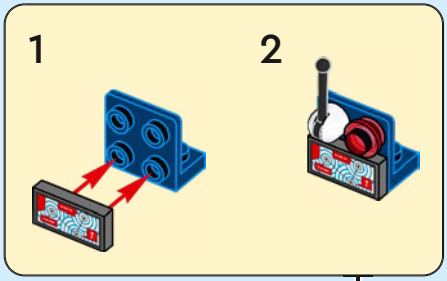


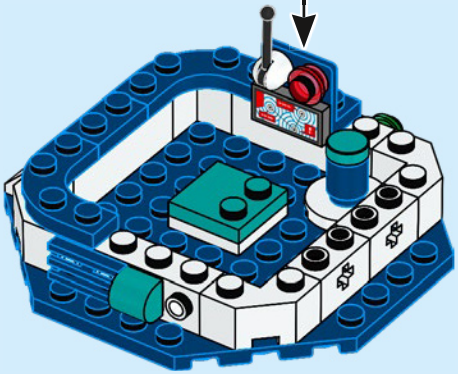
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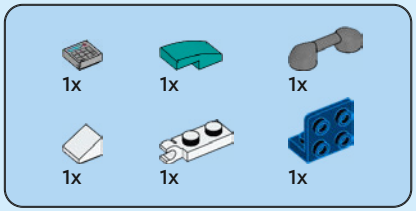




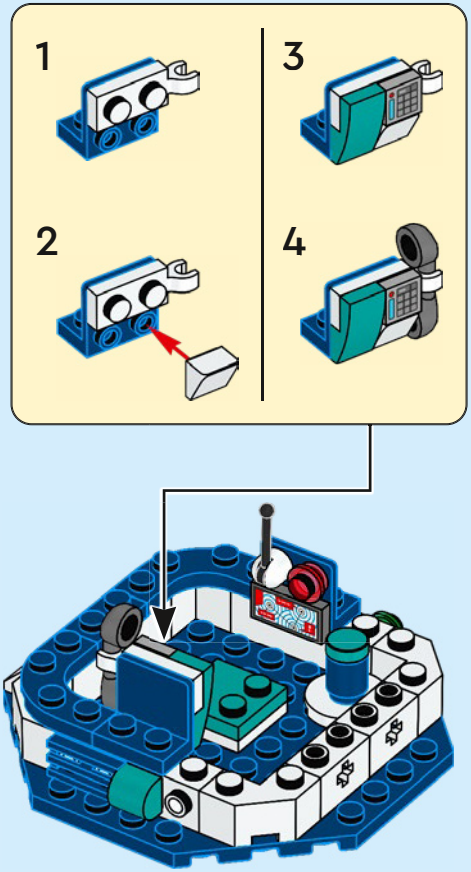
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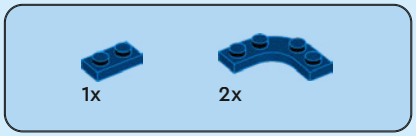




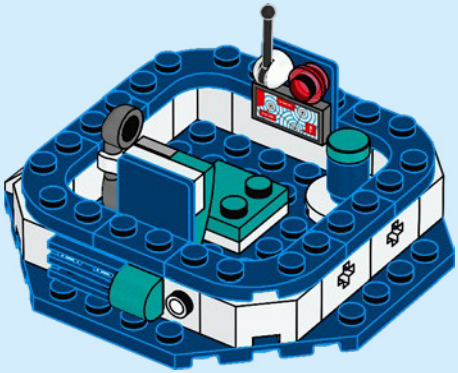


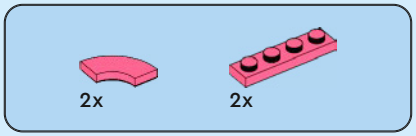
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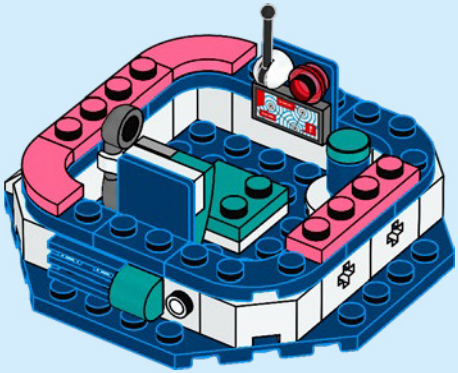


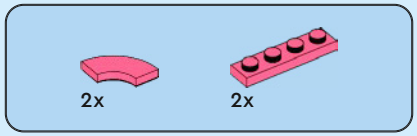
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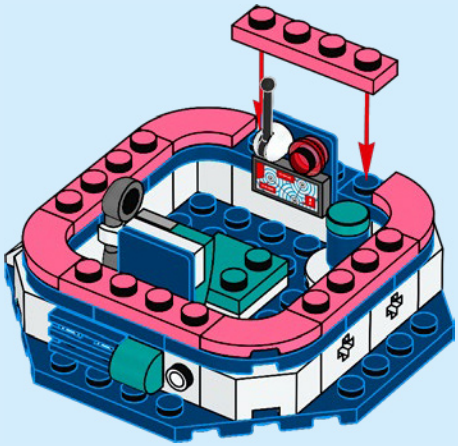


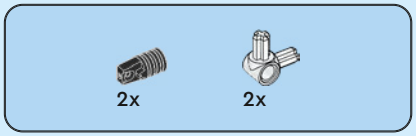
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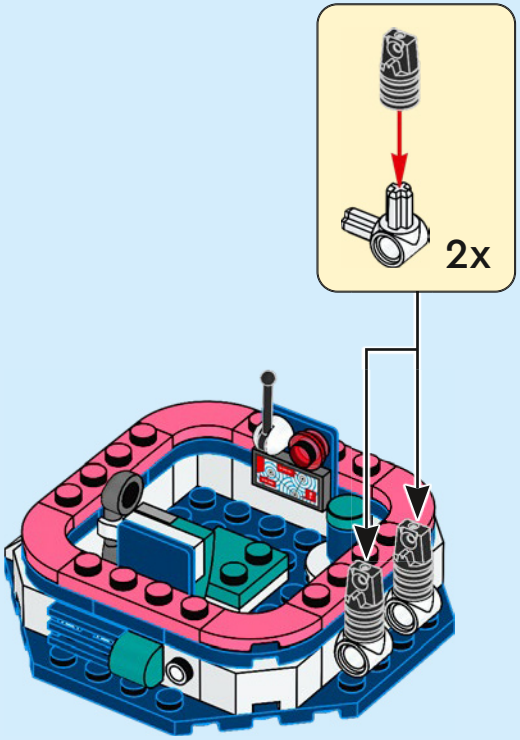


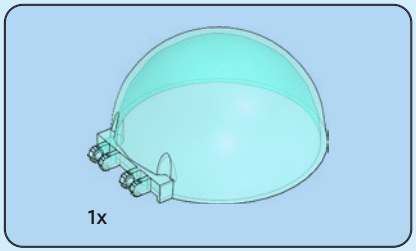
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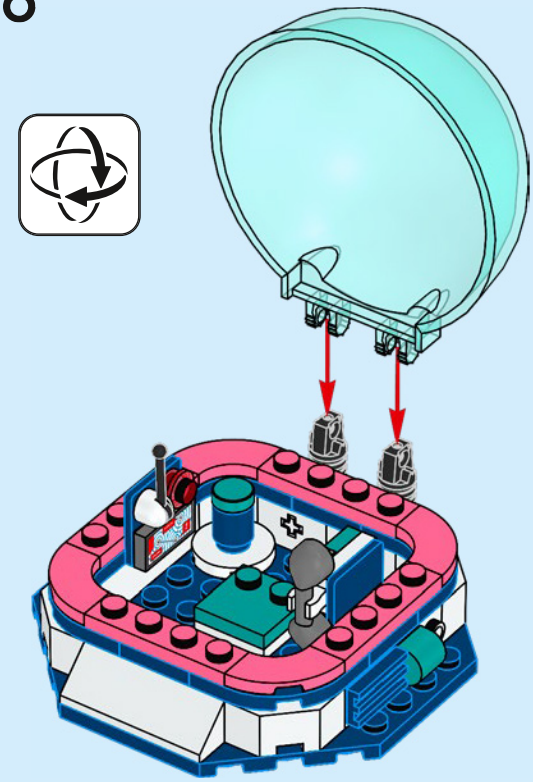


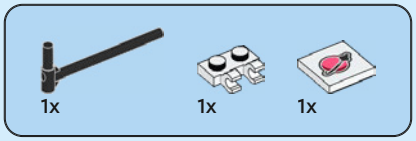
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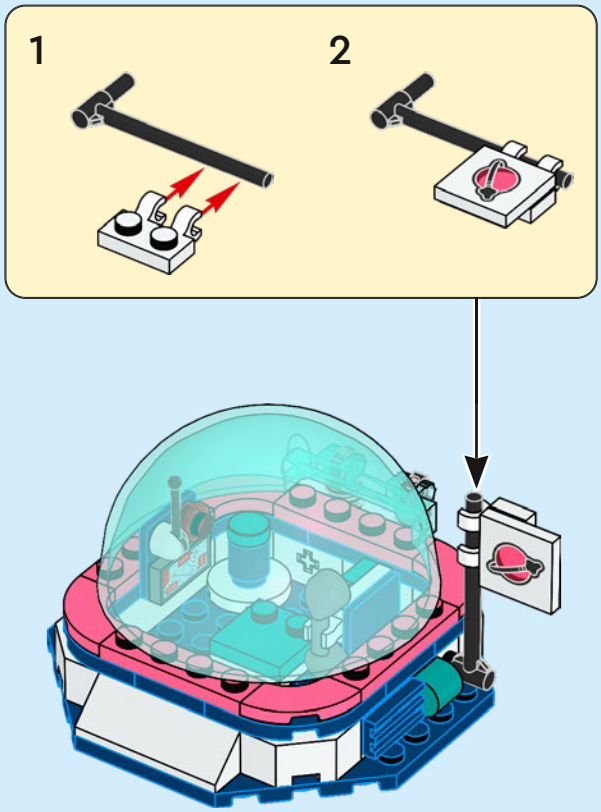


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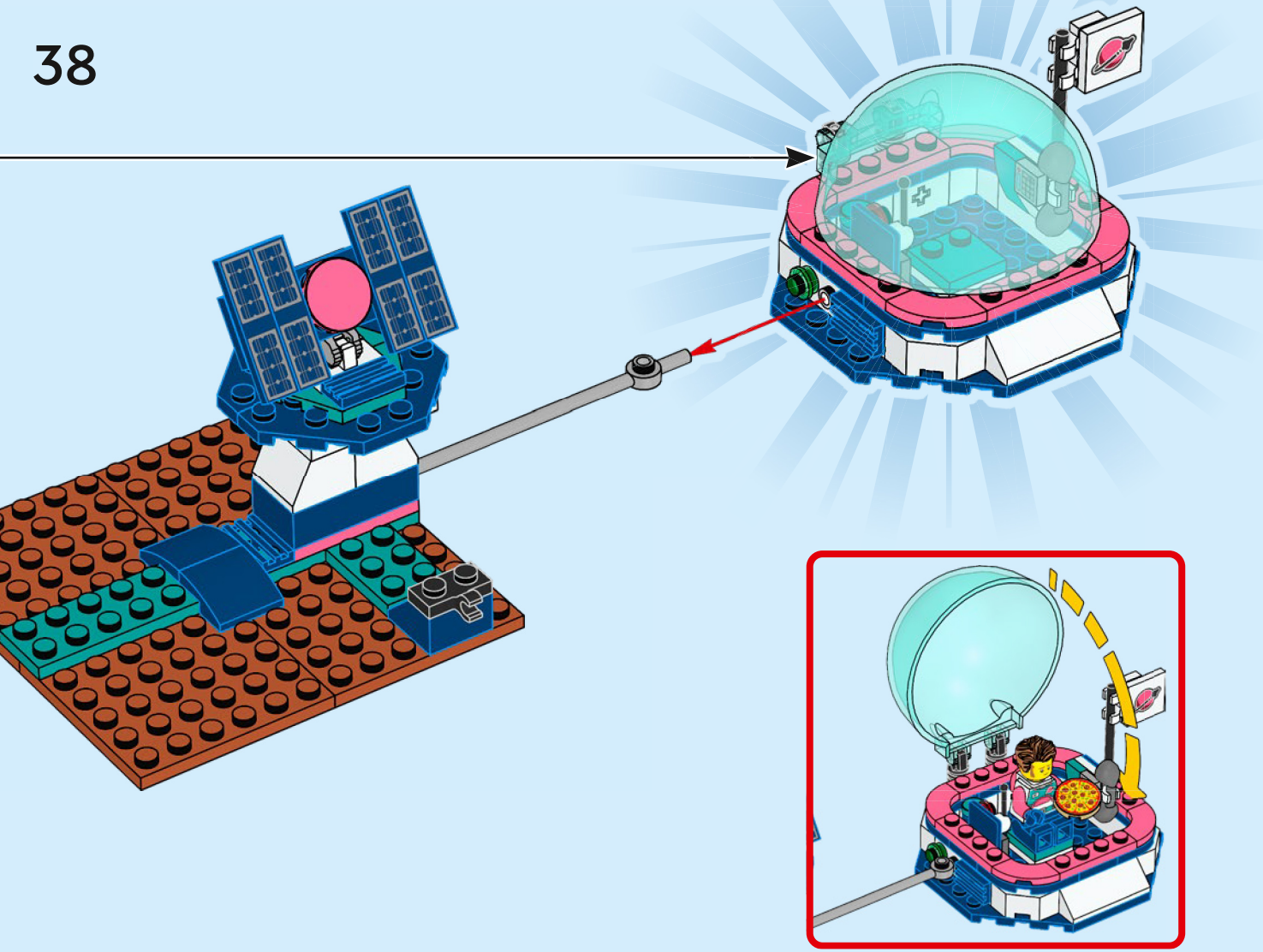


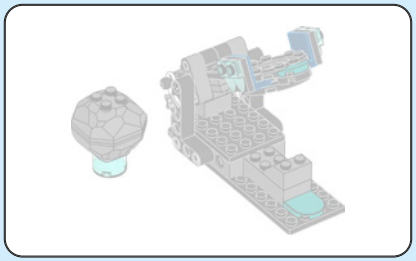


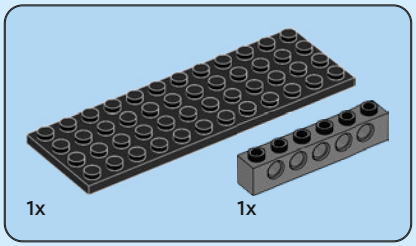
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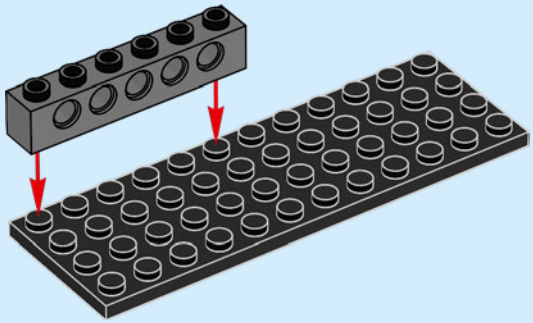
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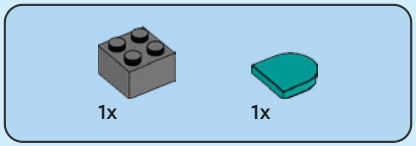




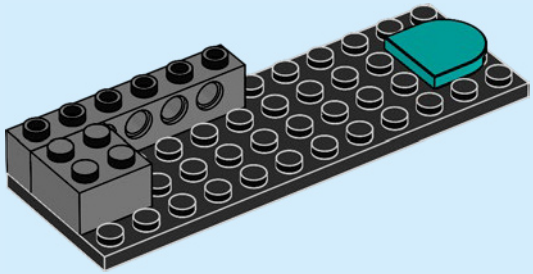


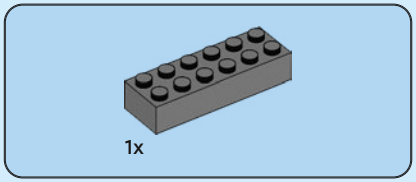
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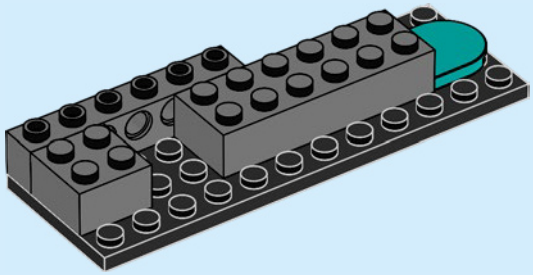


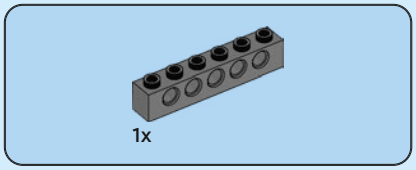
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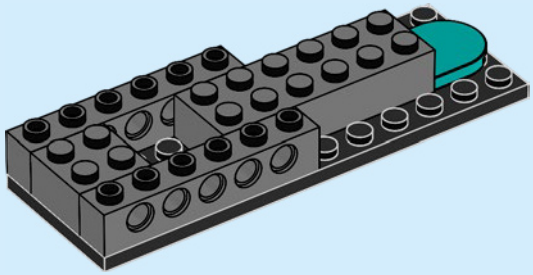


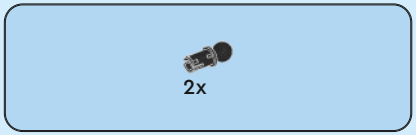
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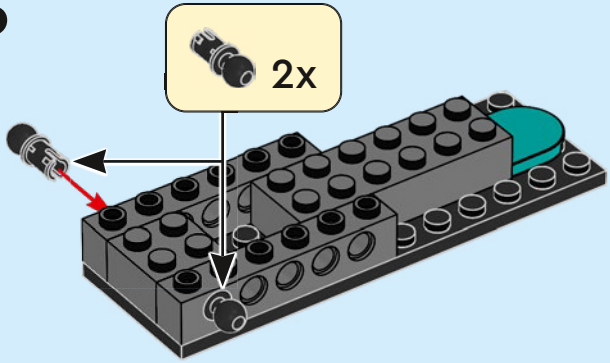


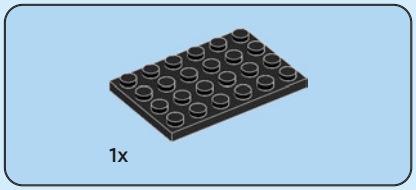
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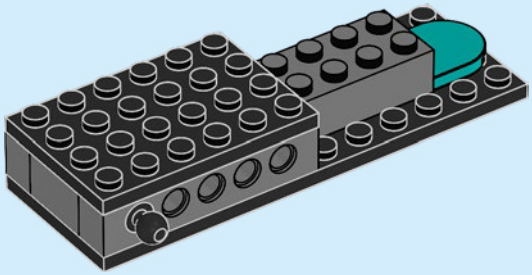


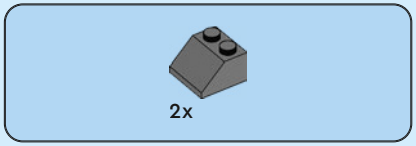
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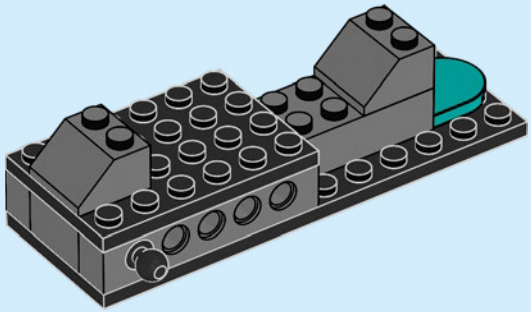


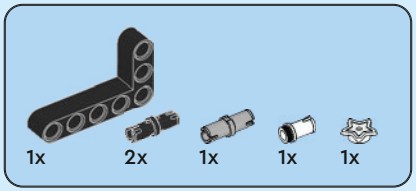
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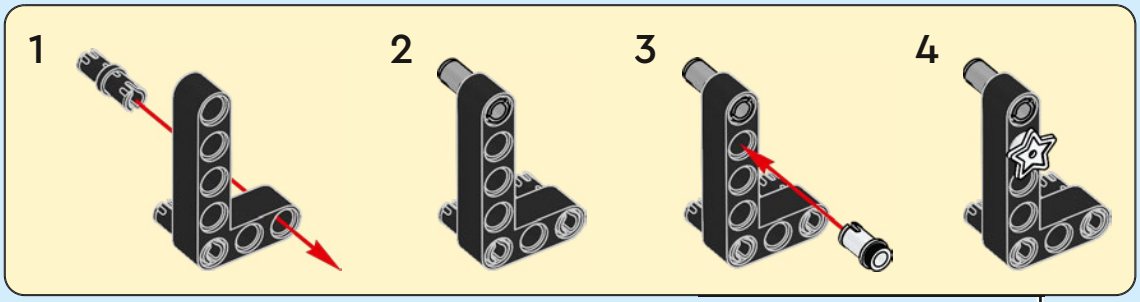


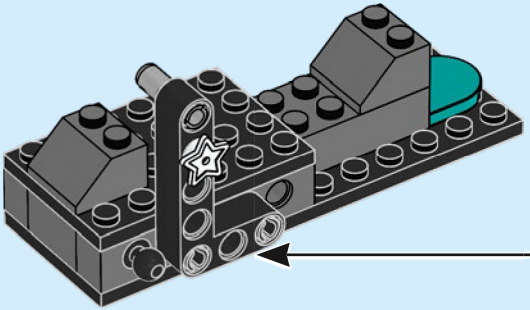
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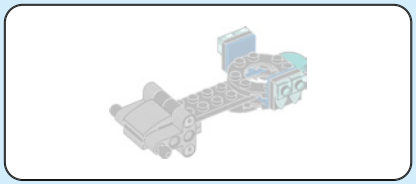


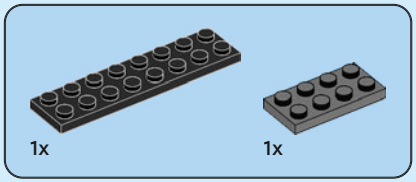


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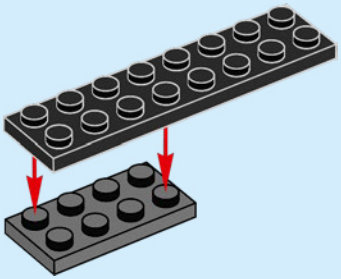


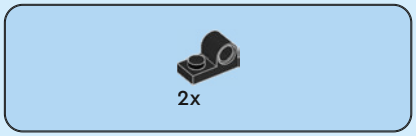




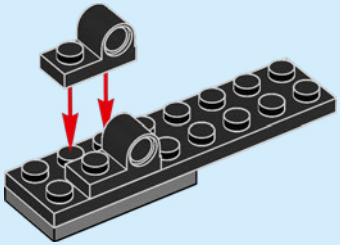


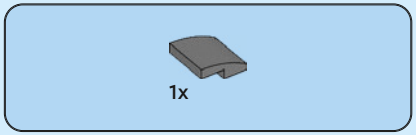
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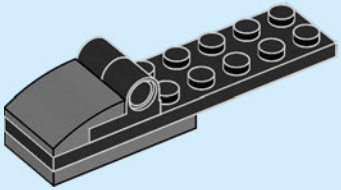


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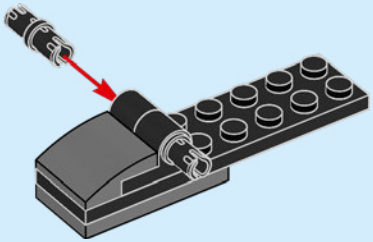


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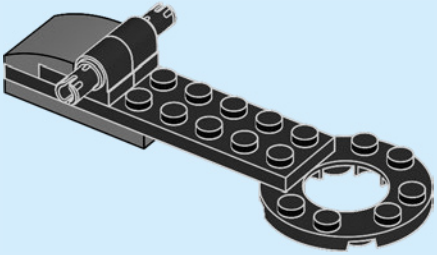


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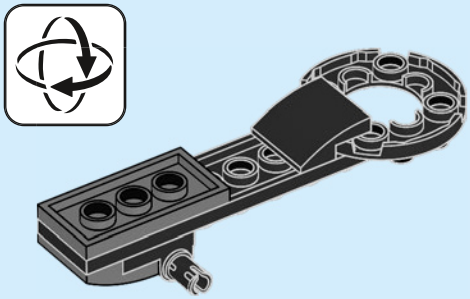


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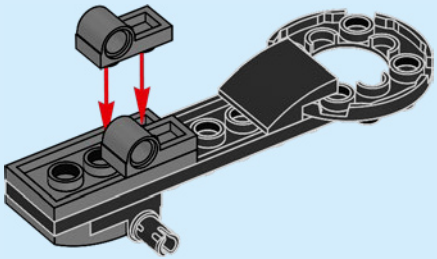


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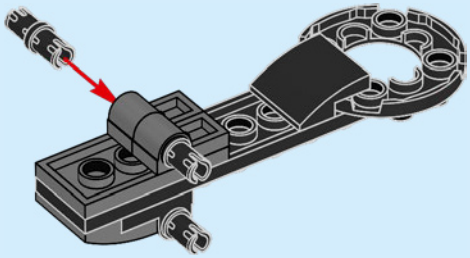


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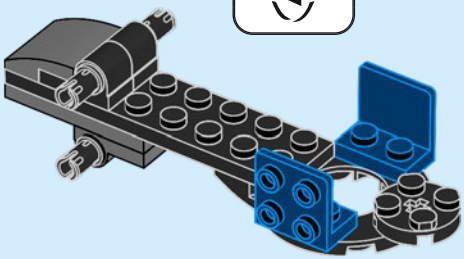
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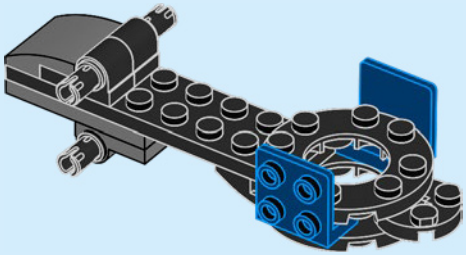
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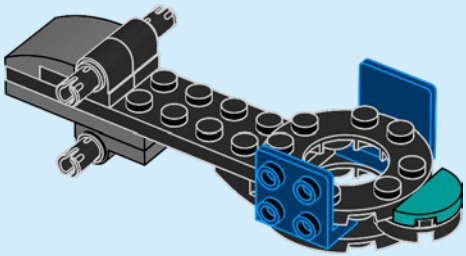


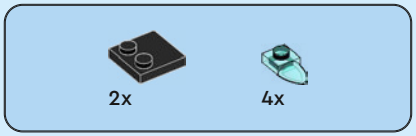
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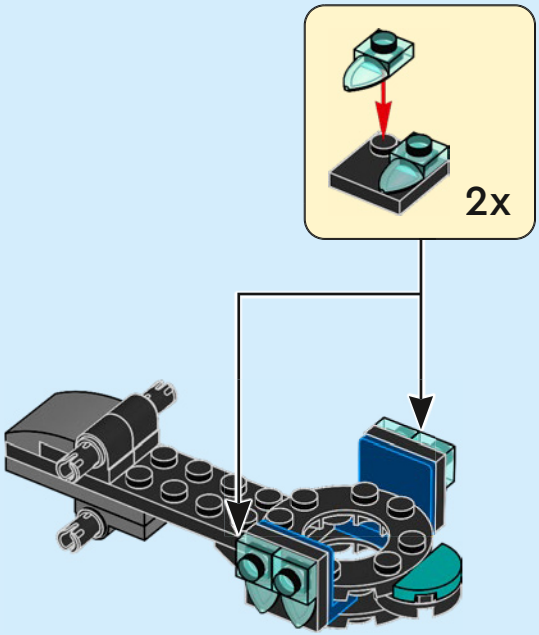


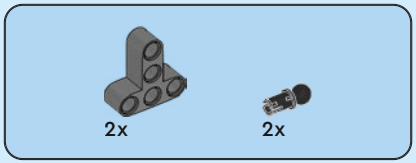
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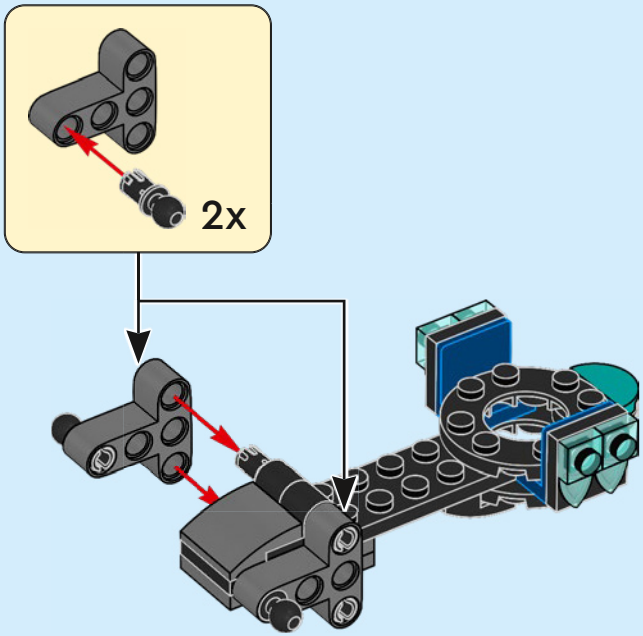


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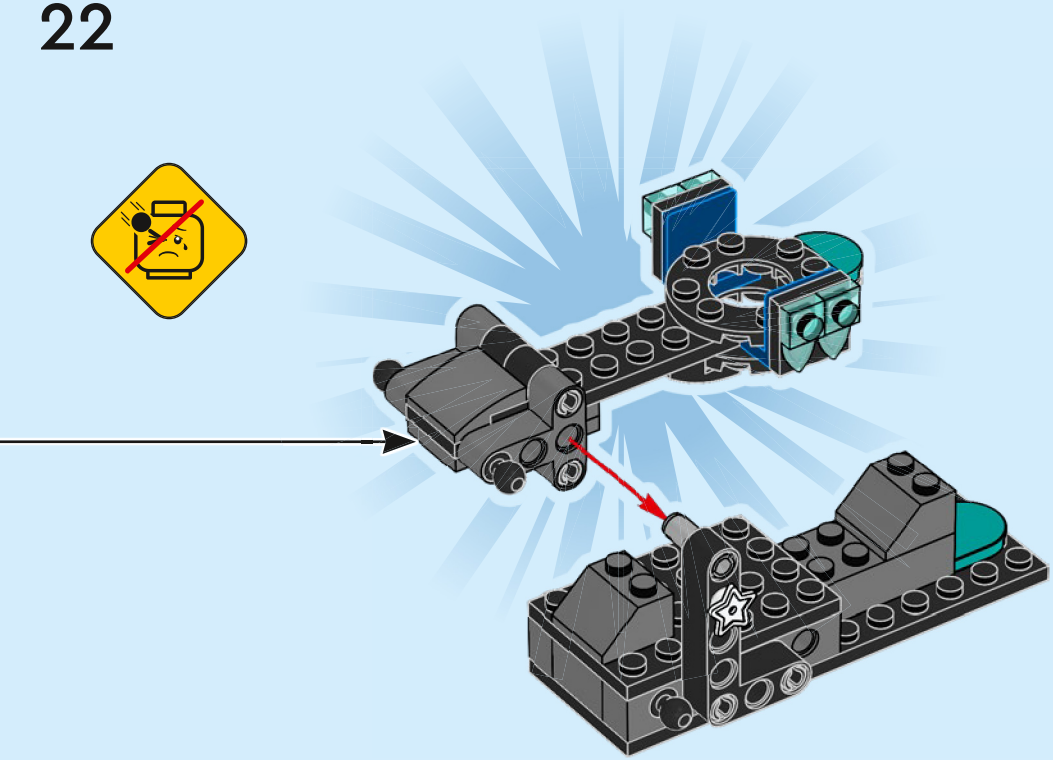


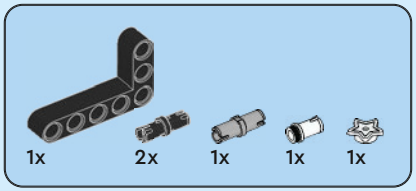


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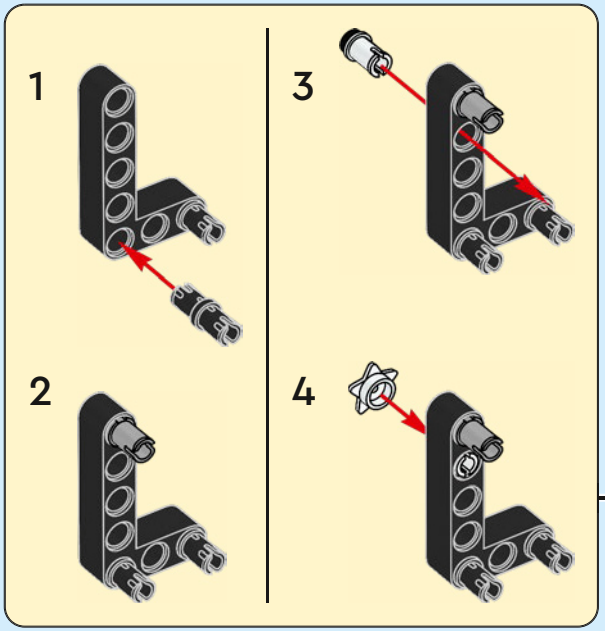
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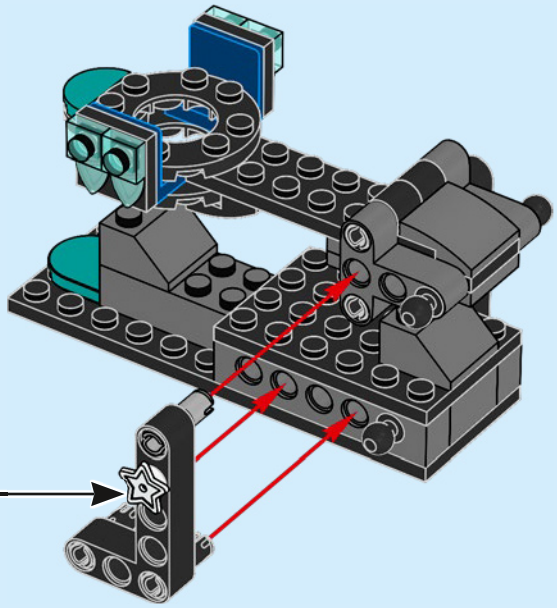




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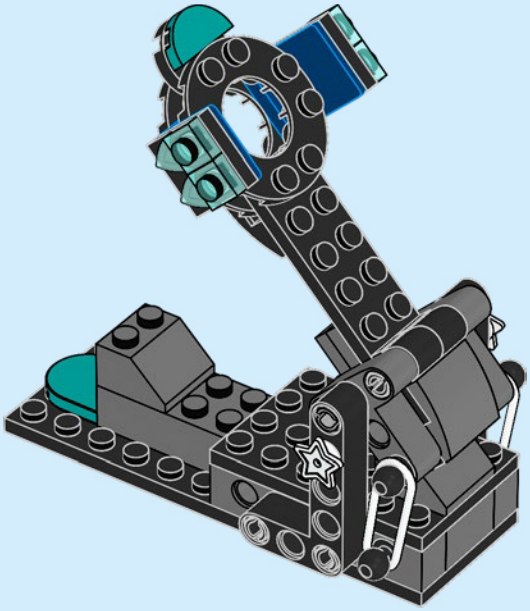




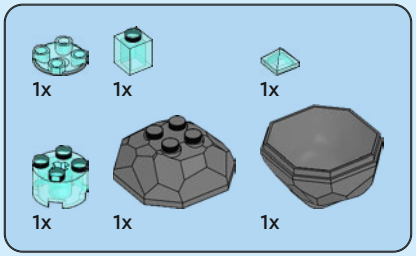


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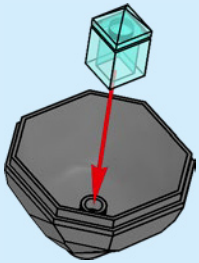


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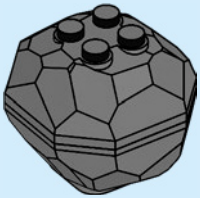
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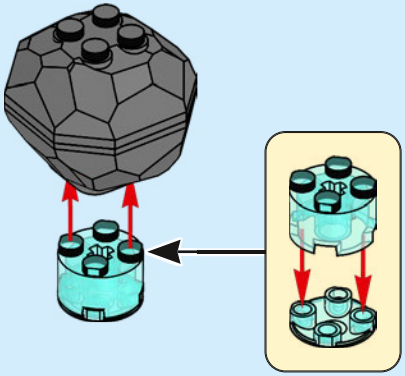
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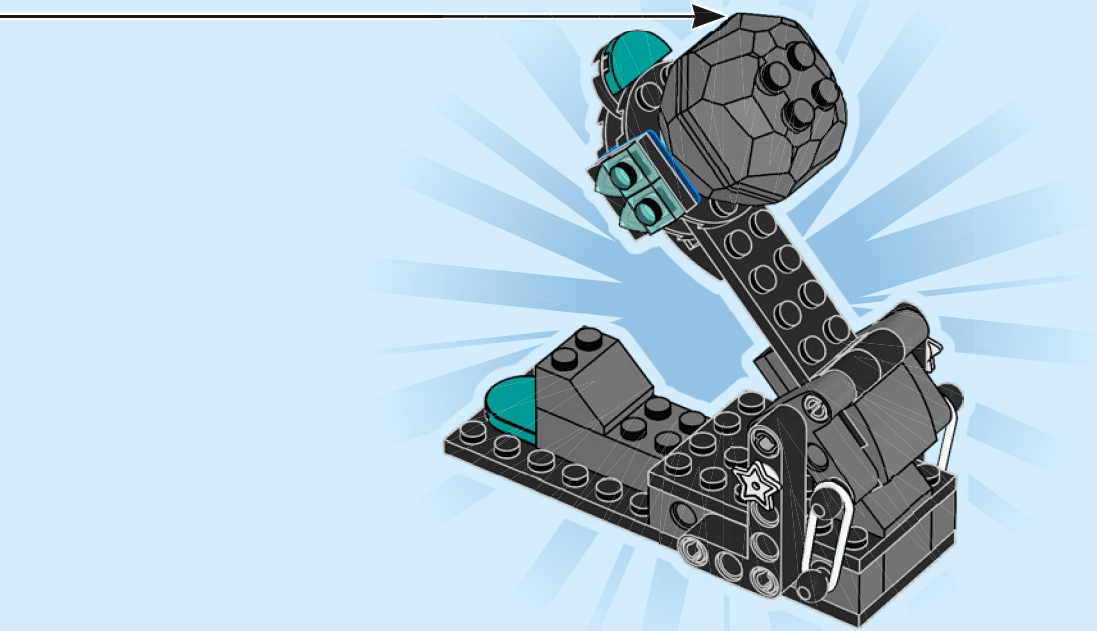


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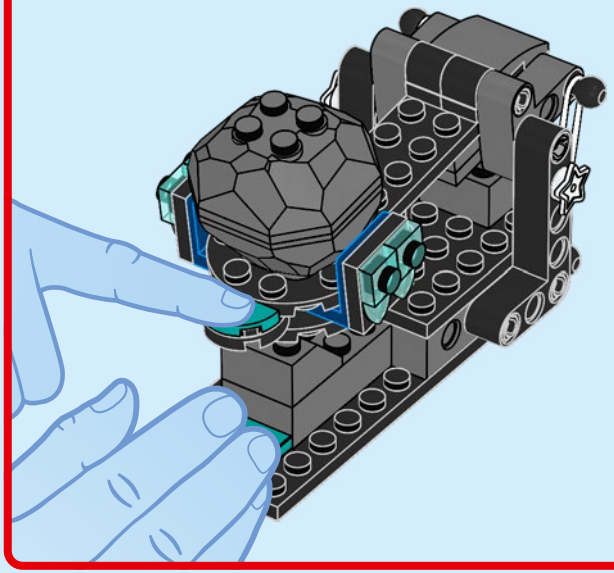
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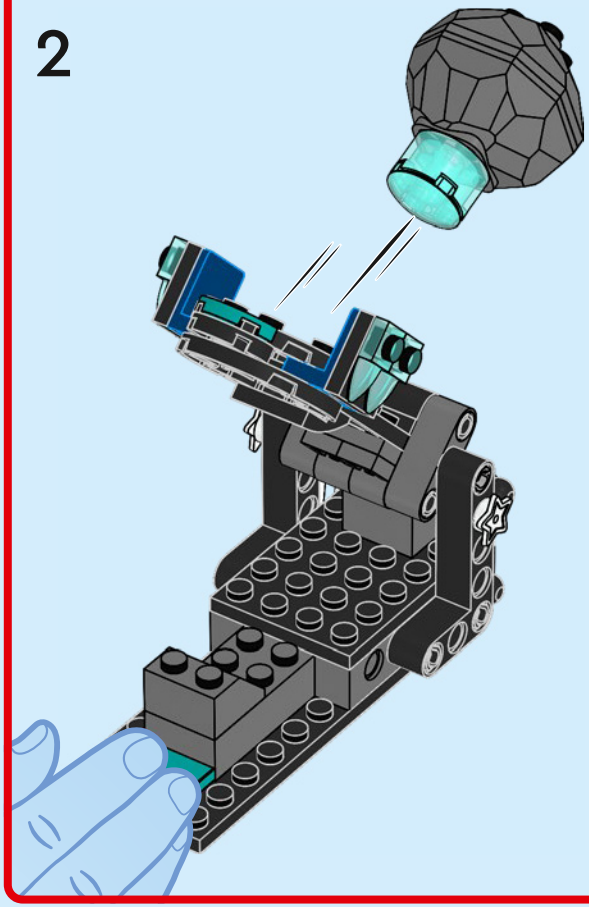


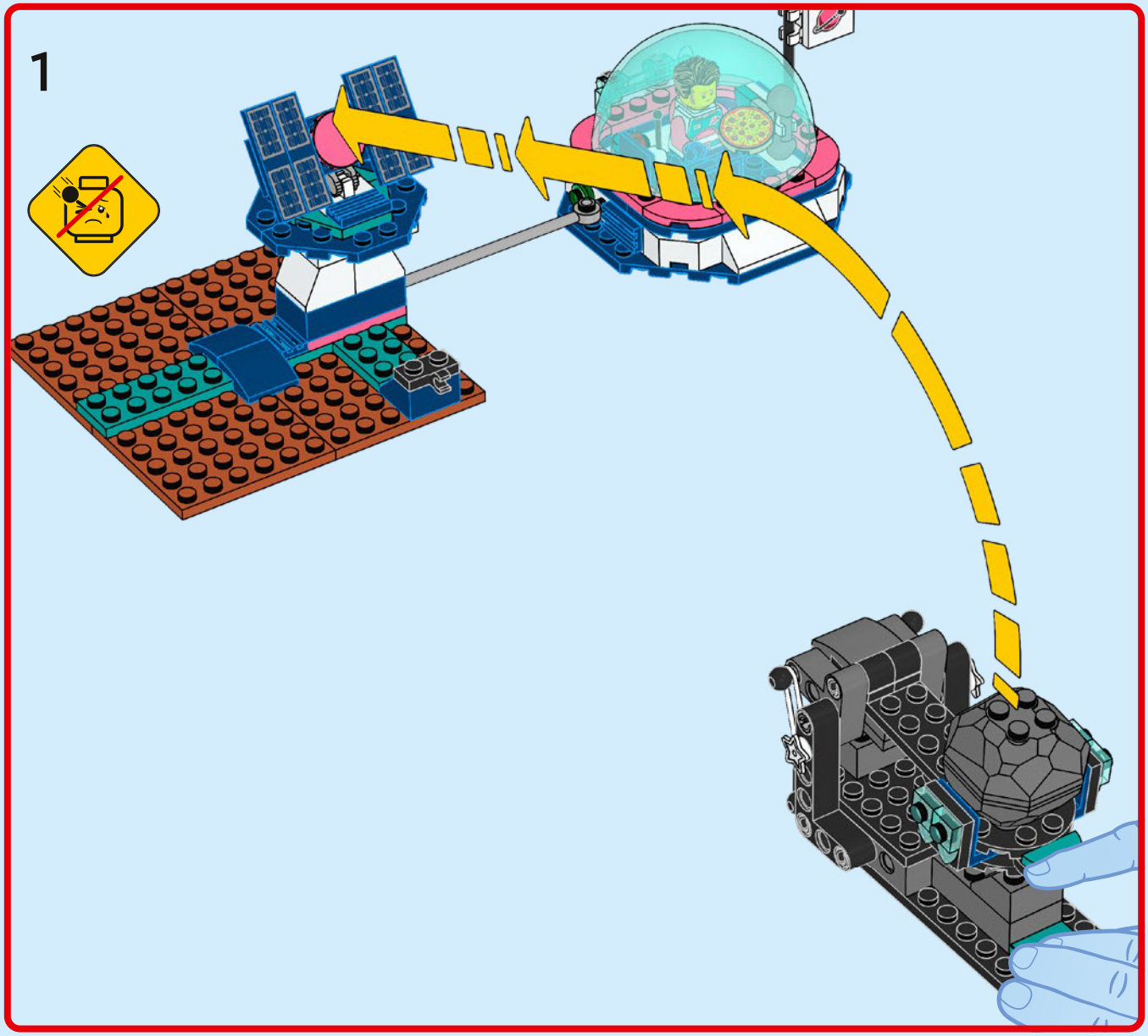


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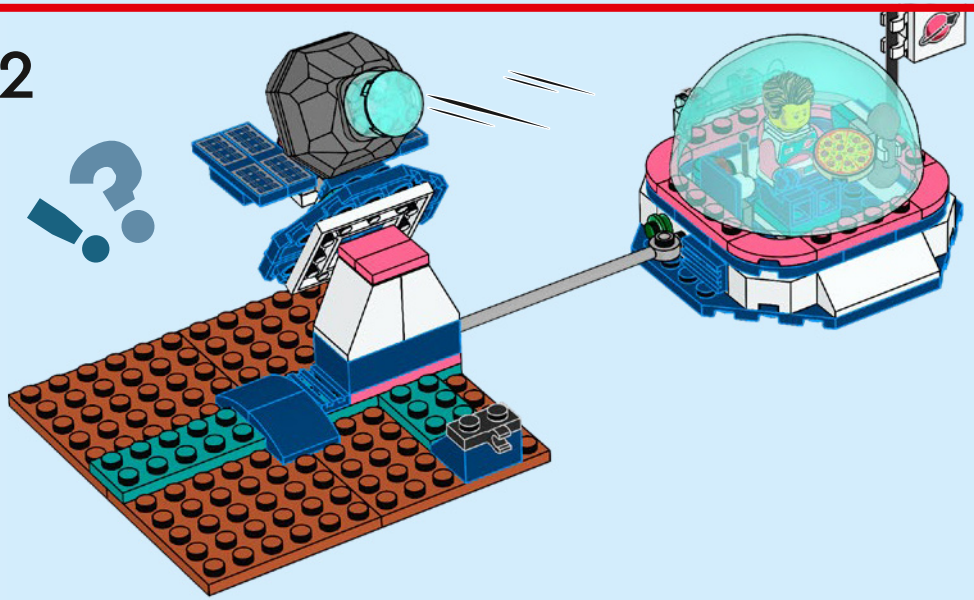


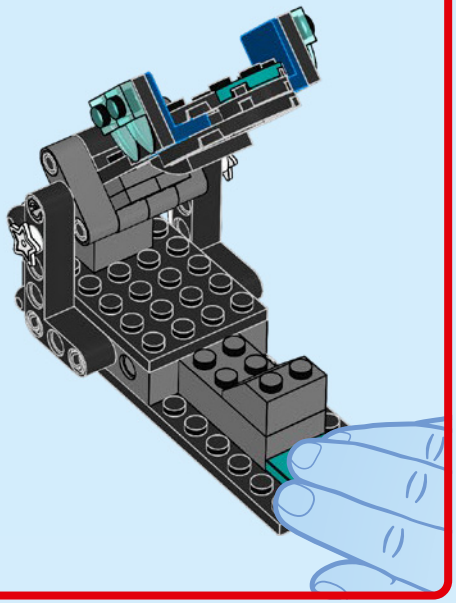
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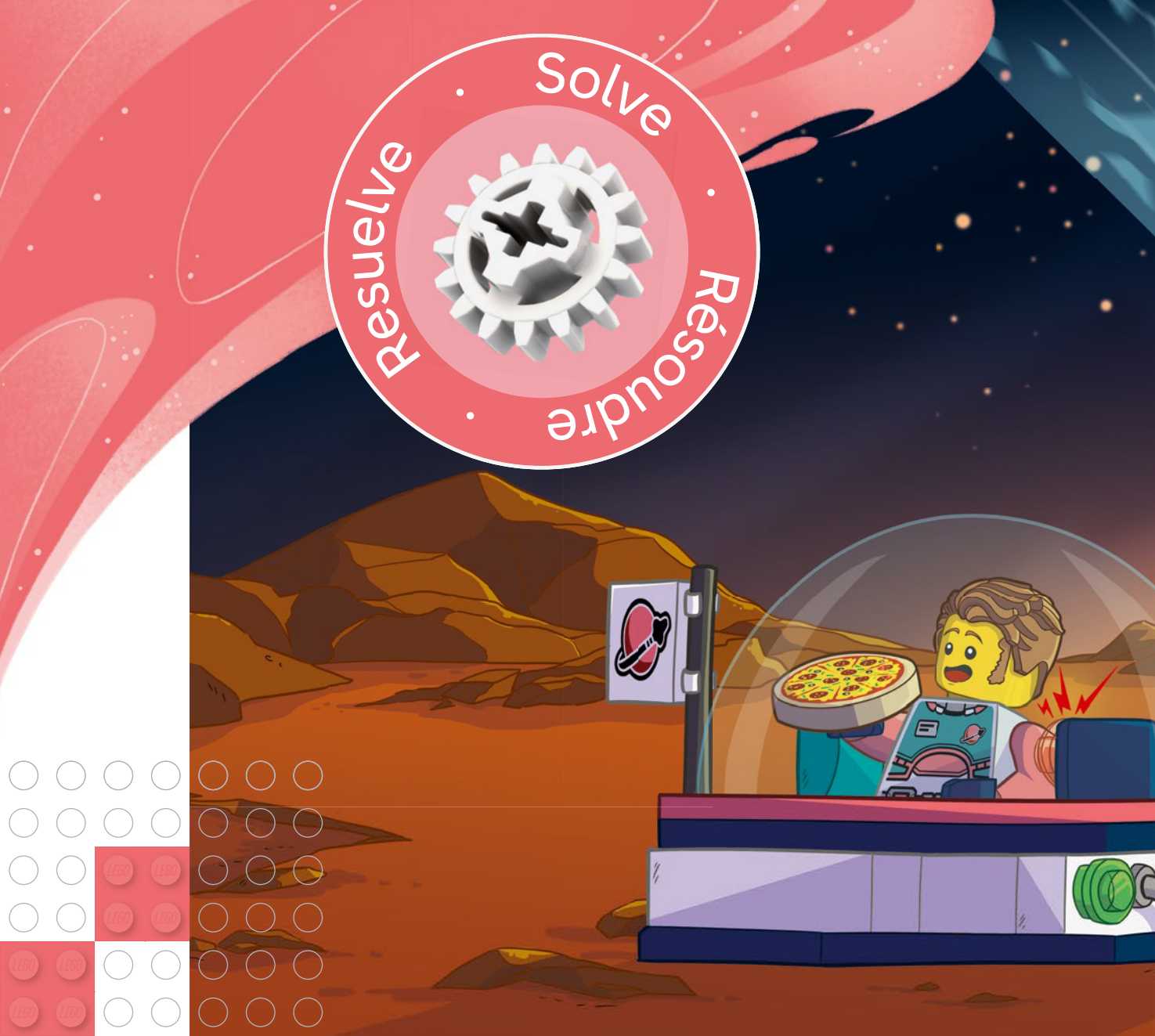


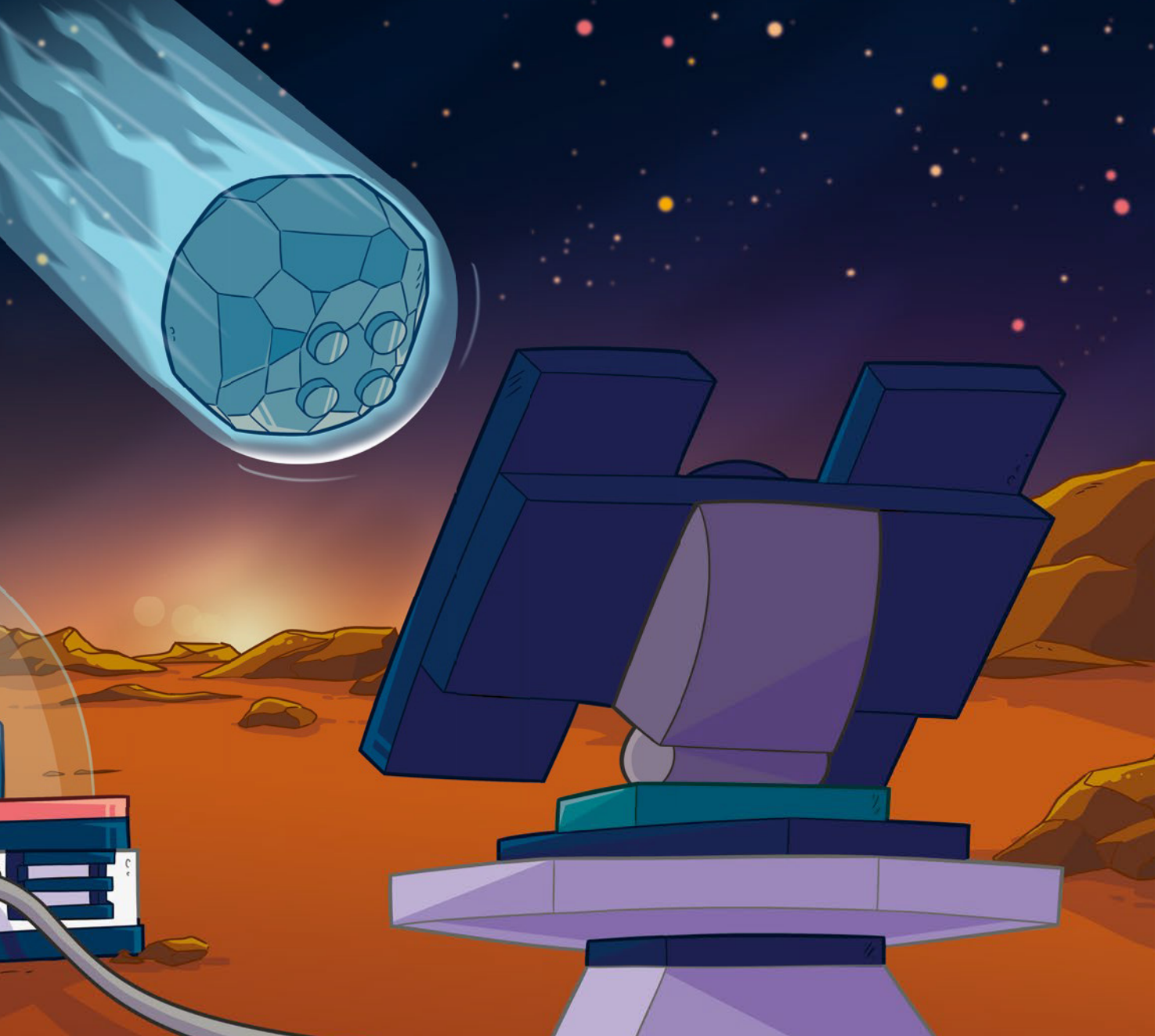

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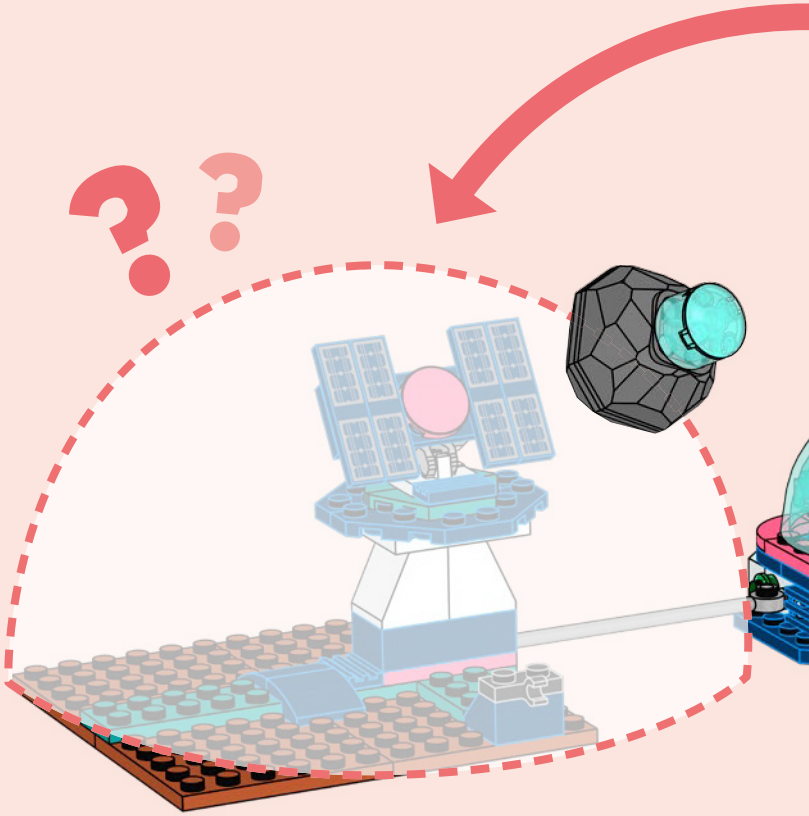


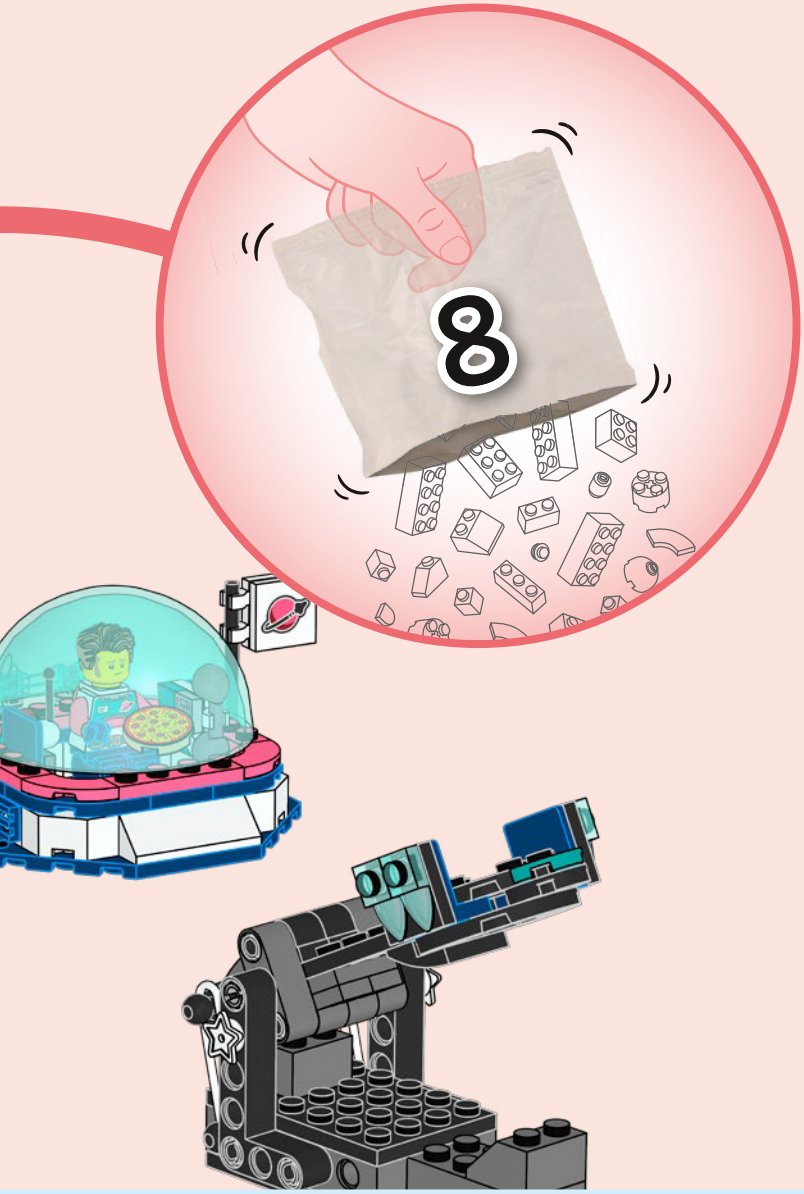

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Résoudre
Resuelve

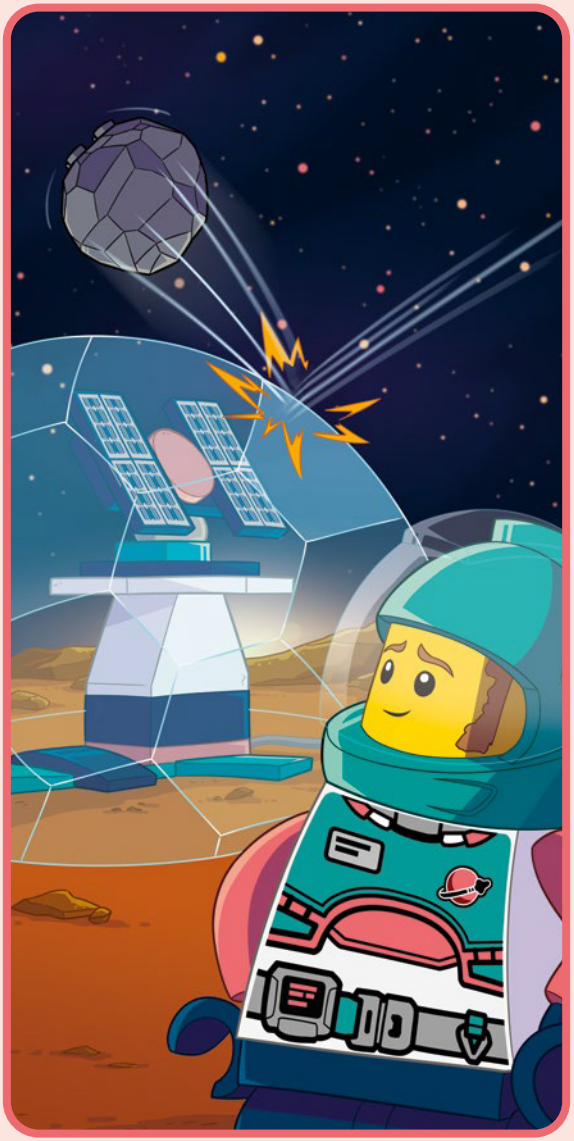


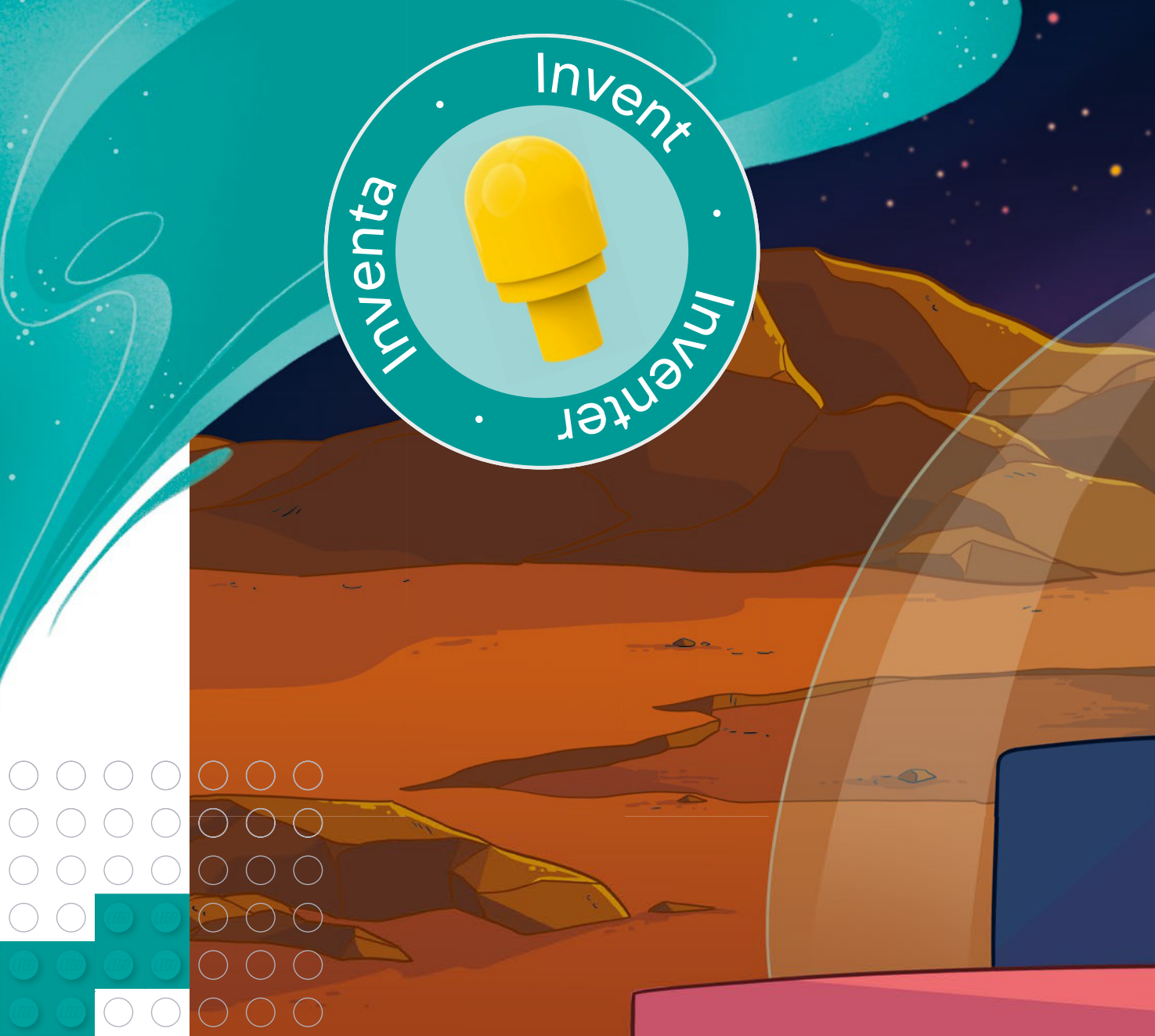


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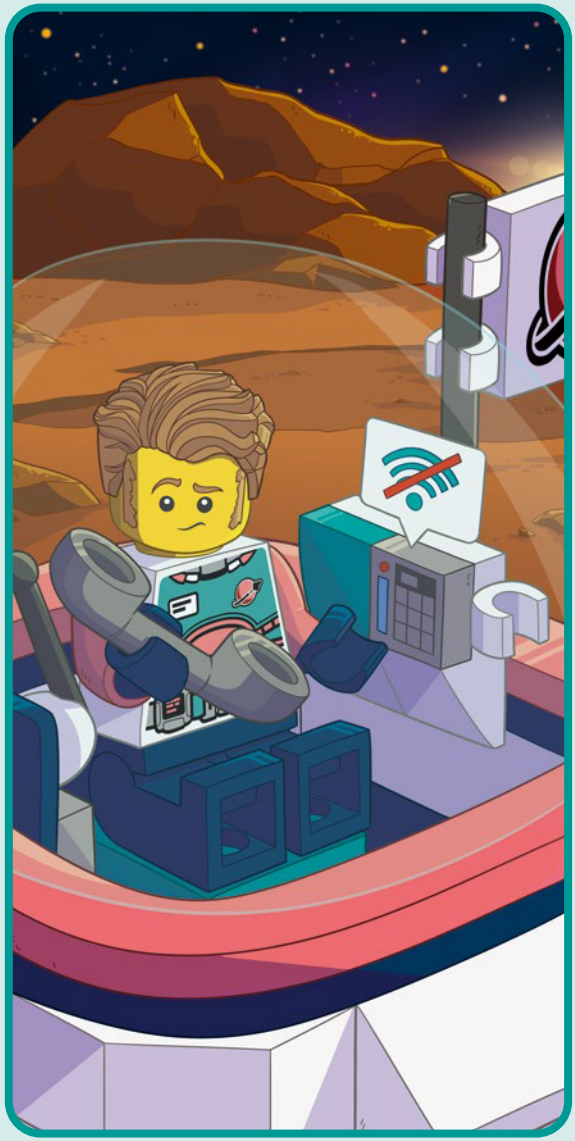



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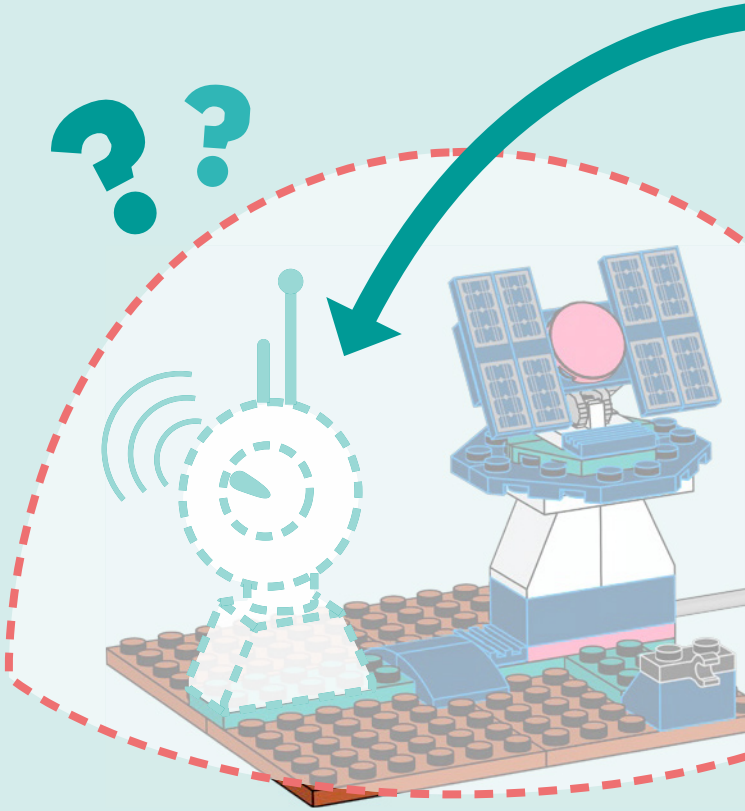


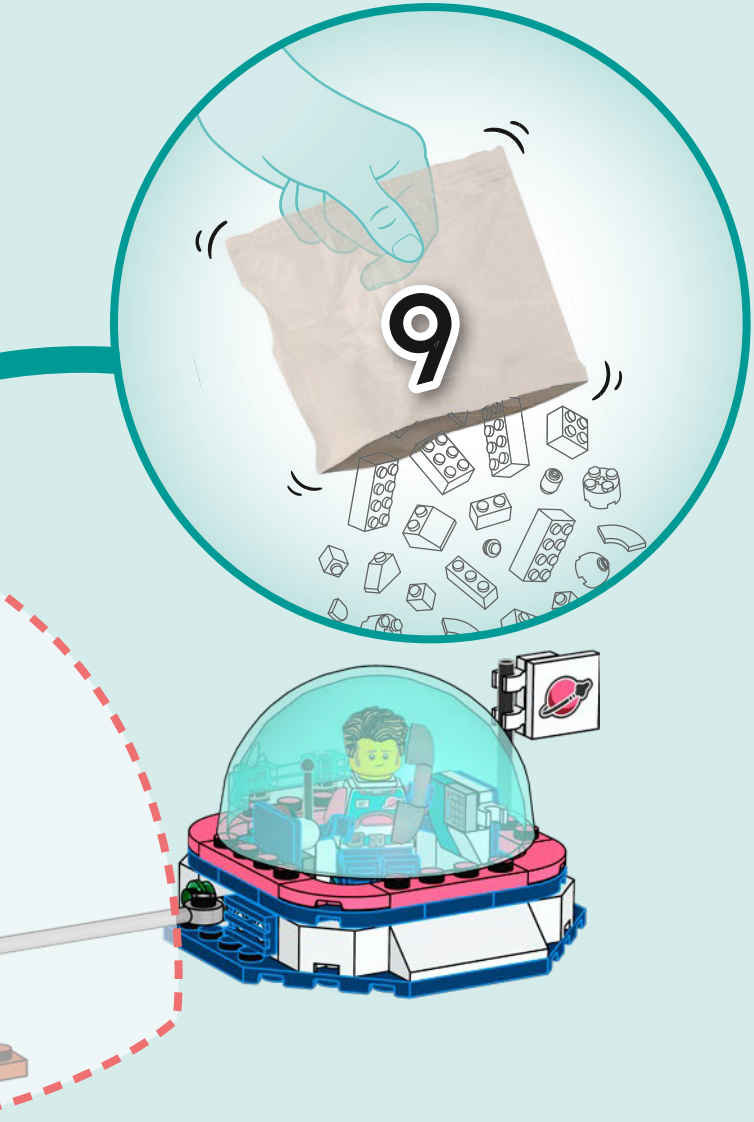

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