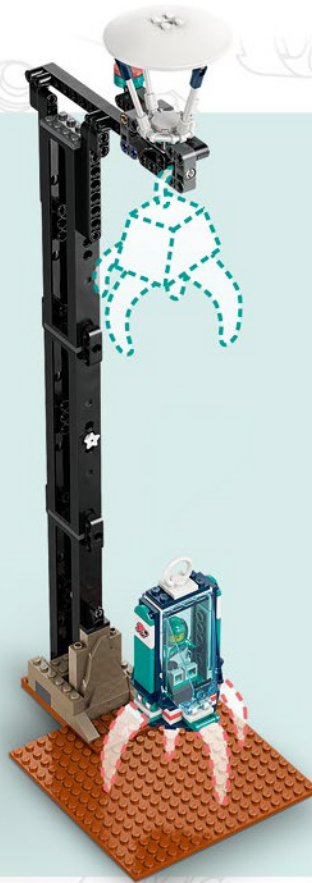




education™

Build
Solve
Invent™

45202



2

How would you design a space pod to land on Mars?



This Physical Science experiment is based on making observations about materials and their properties. Space pods are designed to move safely through space. For example, they have heat shields and other systems to keep their temperature at the right level. They also have special landing gear so they can land safely in different environments, including the rocky surface of Mars.



Build

Build: Build a pod preparing to land on the surface of Mars.



Solve

Solve: Create supports for the pod so it can land safely on Mars.



Invent

Invent: Design a new pod that can safely drop supplies to help the astronaut survive on Mars.

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

- What kinds of shapes and structures helped the pod land safely?
- Which LEGO® elements did you use for your supply pod? Why did you choose them?
- Why do you think certain types of materials are used for space missions?



Comment concevriez-vous une capsule spatiale pour atterrir sur Mars?



Cette expérience de sciences physiques est basée sur l'observation des matériaux et de leurs propriétés. Les capsules spatiales sont conçues pour se déplacer en toute sécurité dans l'espace. Par exemple, elles sont équipées de boucliers thermiques et d'autres systèmes pour maintenir leur température au bon niveau. Elles ont également un train d'atterrissage spécial qui leur permet de se poser en toute sécurité dans différents environnements, y compris sur la surface rocheuse de Mars.



Construire

Construire : Construisez une capsule en préparation d'un atterrissage sur la surface de Mars.



Résoudre

Résoudre : Créez des supports pour la capsule afin qu'elle puisse atterrir en toute sécurité sur Mars.



Inventer

Inventer : Concevez une nouvelle capsule capable de larguer en toute sécurité des fournitures pour aider l'astronaute à survivre sur Mars.

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

- Quels types de formes et de structures ont permis à la capsule d'atterrir en toute sécurité?
- Quels éléments LEGO® as-tu utilisés pour ta capsule à fournitures?
Pourquoi les as-tu choisis?
- Pourquoi penses-tu que certains types de matériaux sont utilisés pour les missions spatiales?

¿Cómo diseñarías una cápsula espacial para aterrizar en Marte?



Este experimento de ciencias físicas se centra en hacer observaciones sobre los materiales y sus propiedades. Las cápsulas espaciales están diseñadas para recorrer el espacio con seguridad. Por ejemplo, tienen escudos térmicos y otros sistemas para mantener una temperatura adecuada. También tienen un tren de aterrizaje especial para aterrizar con seguridad en distintos entornos, incluida la rocosa superficie de Marte.



Constuye

Constuye: Construye una cápsula preparándose para aterrizar en la superficie de Marte.



Resuelve

Resuelve: Crea unos soportes para que la cápsula pueda aterrizar con seguridad en Marte.

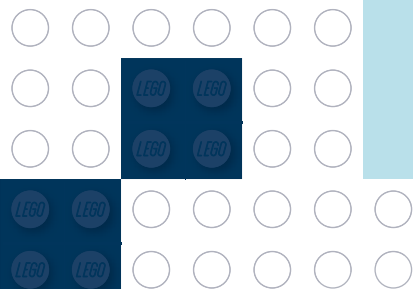
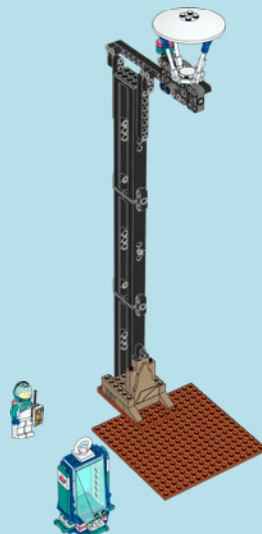
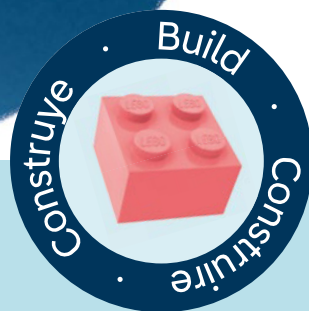


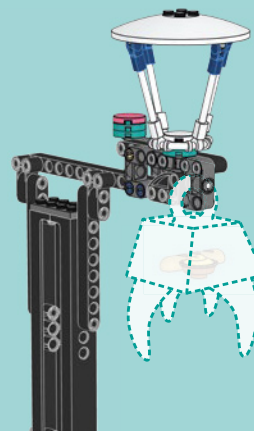
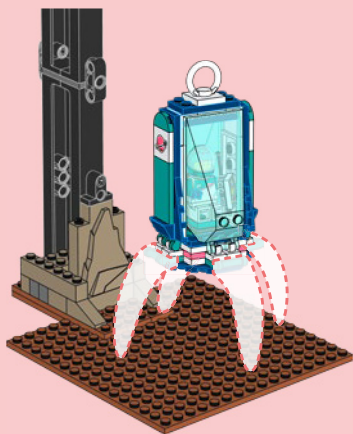
Inventa

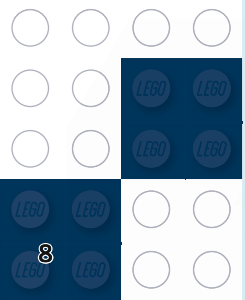
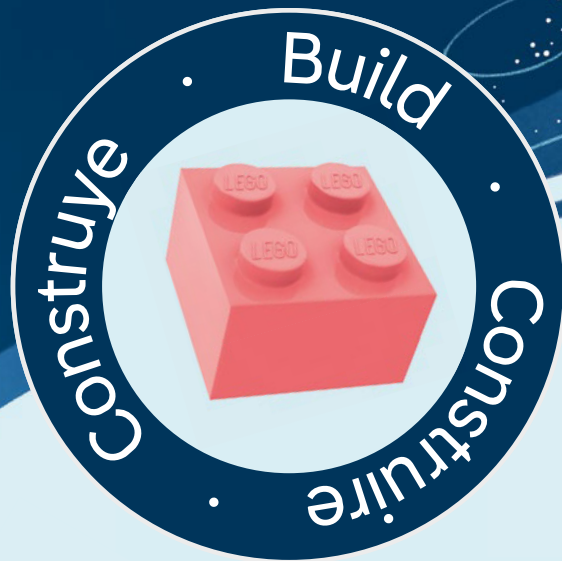
Inventa: Diseña una nueva cápsula que pueda entregar provisiones con seguridad para ayudar al astronauta a sobrevivir en Marte.

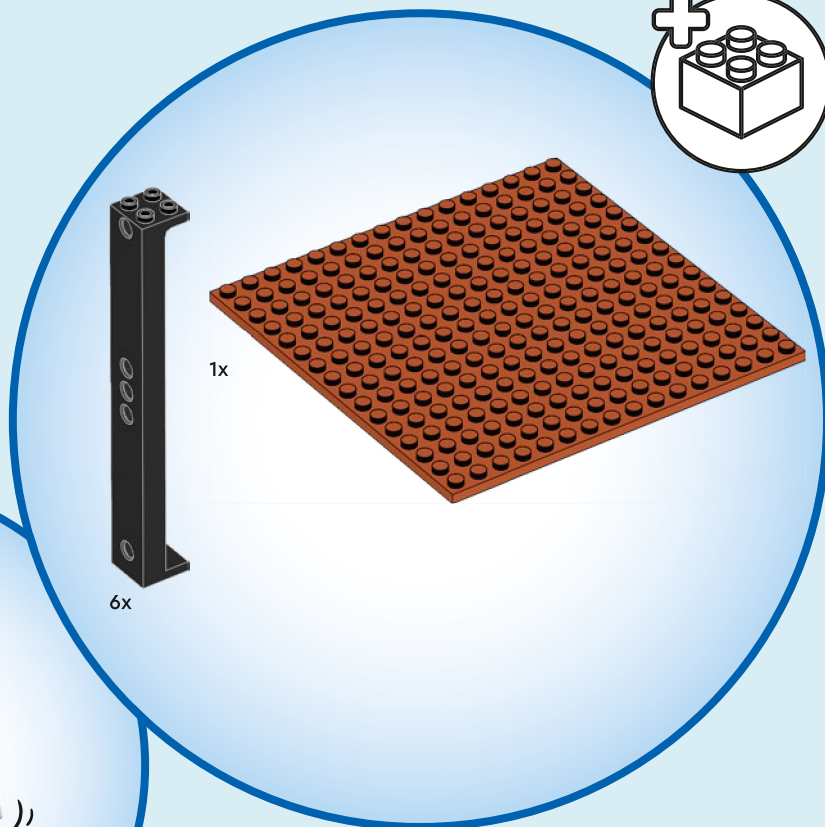
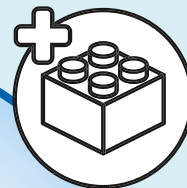
Puedes apoyar el aprendizaje y despertar la curiosidad haciendo preguntas como las siguientes:

- ¿Qué tipos de formas y estructuras ayudaron a la cápsula a aterrizar con seguridad?
- ¿Qué elementos LEGO® usaste en tu cápsula de provisiones? ¿Por qué los elegiste?
- ¿Por qué crees que se usen ciertos tipos de materiales en las misiones espaciales?

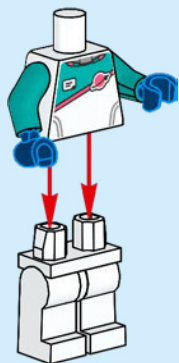




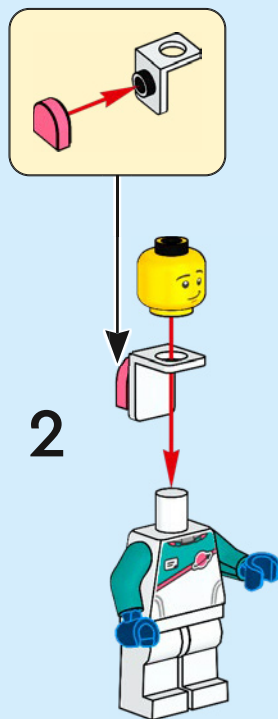




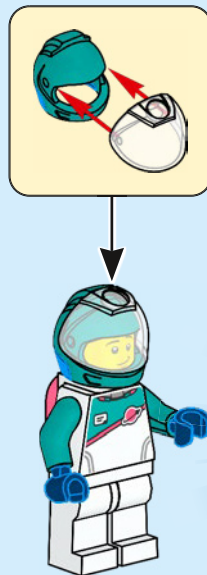
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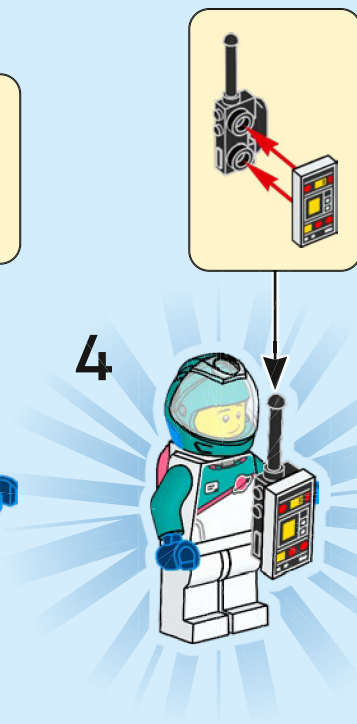
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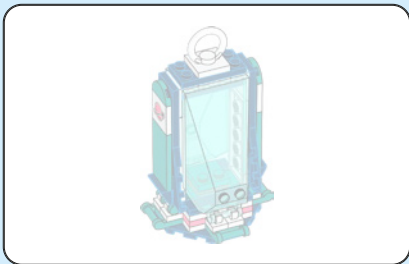


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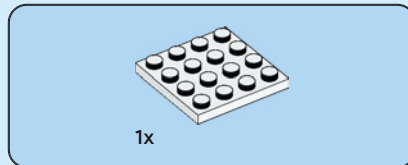
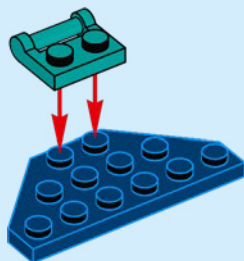


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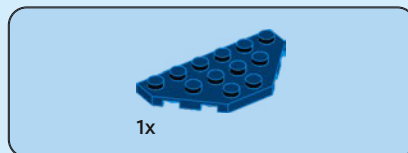




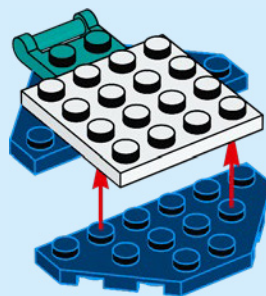
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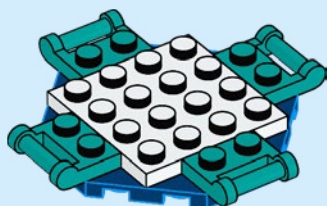
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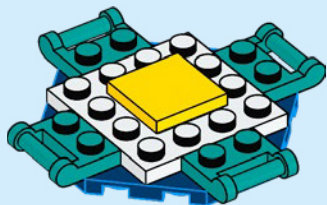
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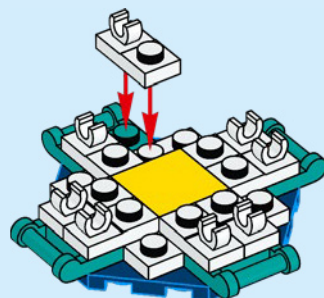
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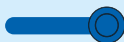
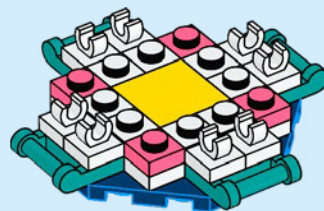
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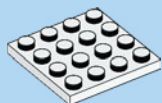
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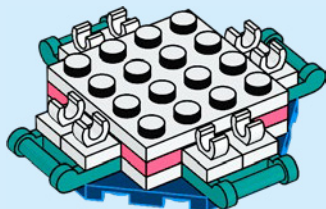
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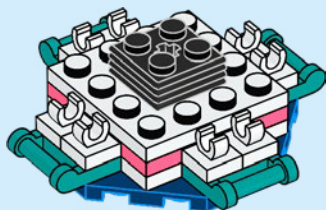
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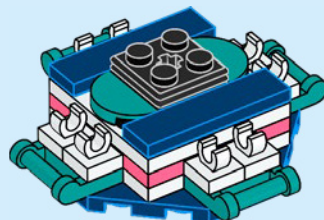


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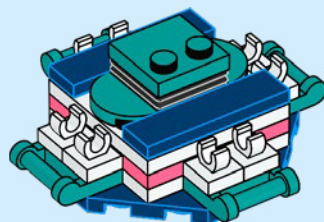
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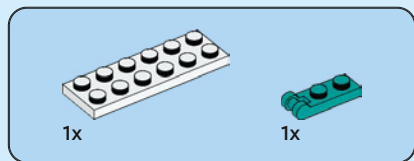
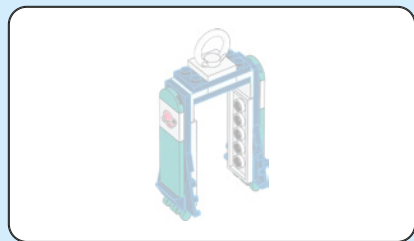
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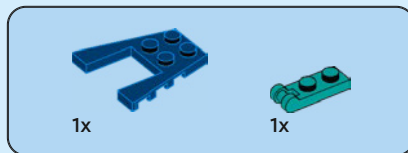
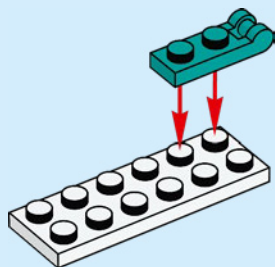
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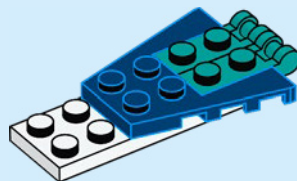


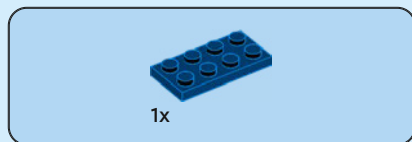


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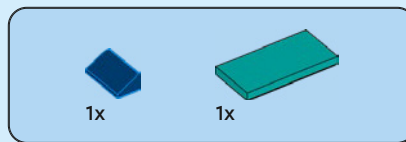
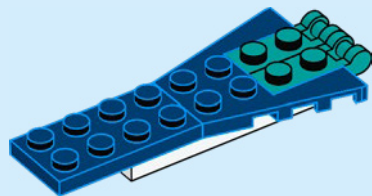


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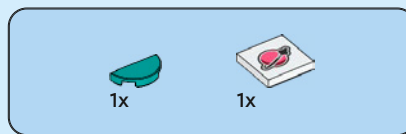
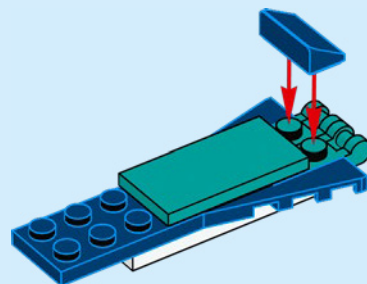




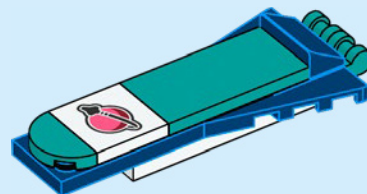
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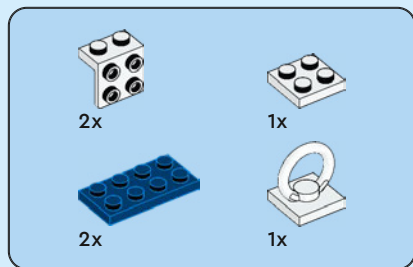


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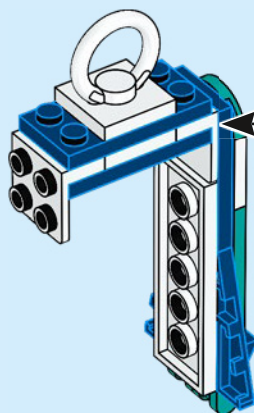
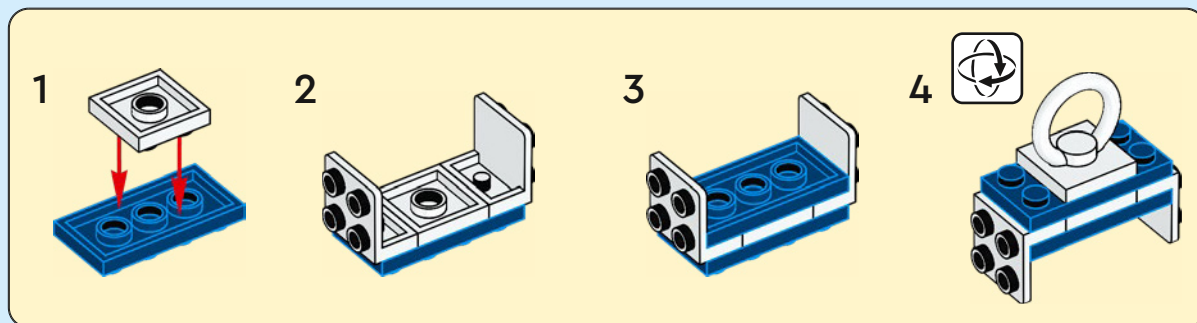


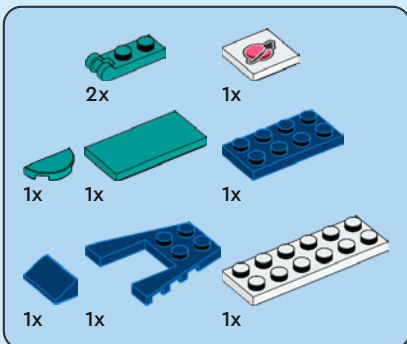
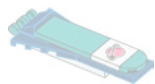
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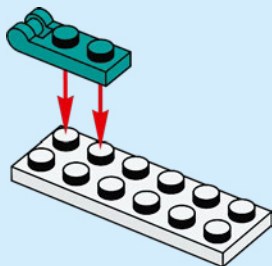
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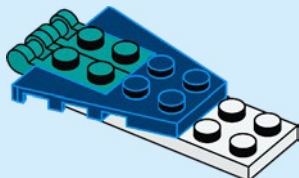


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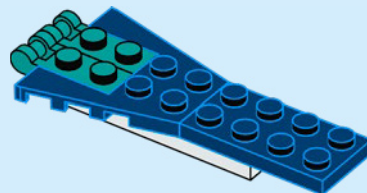
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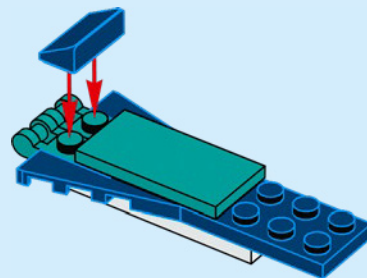
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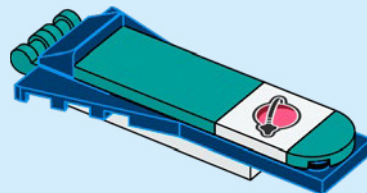
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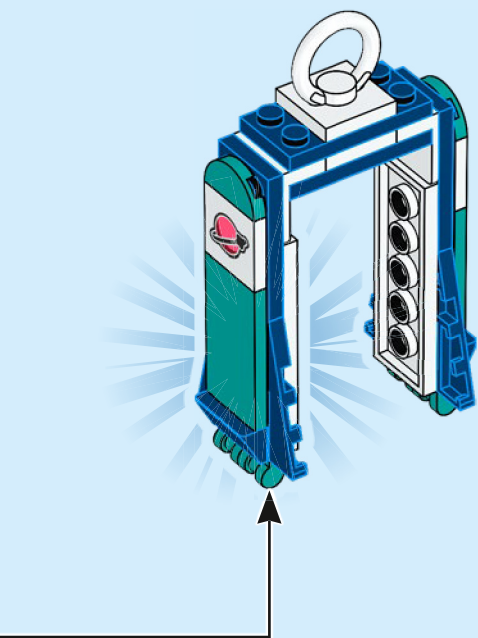


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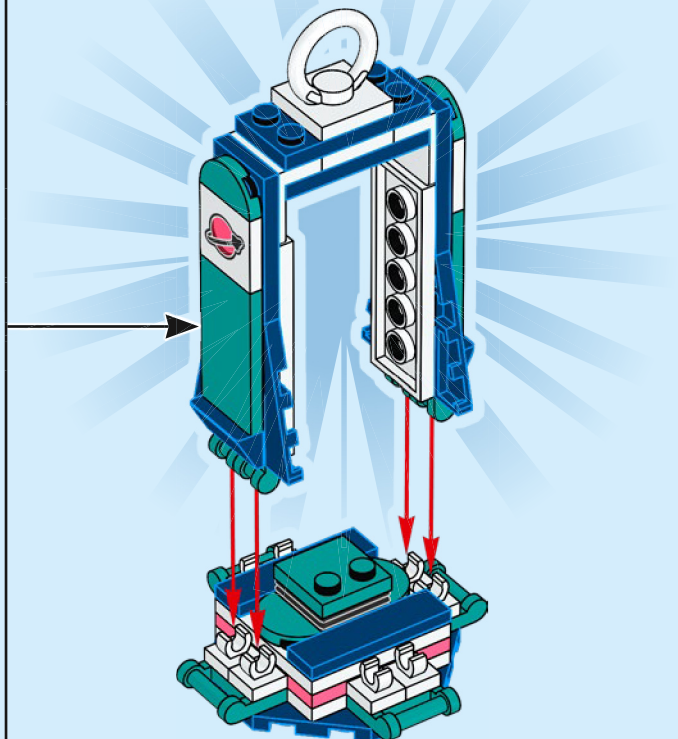


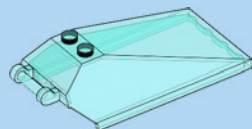
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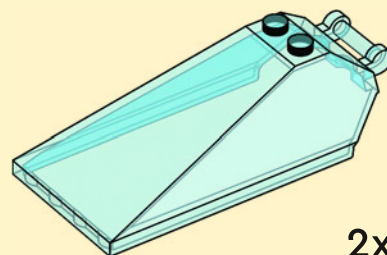


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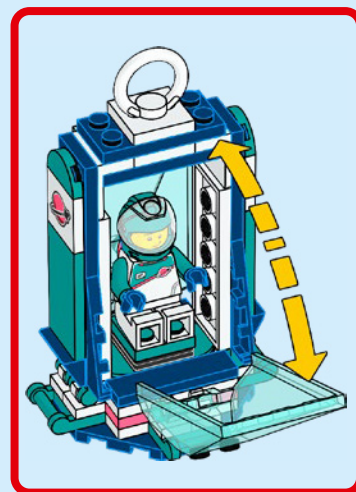
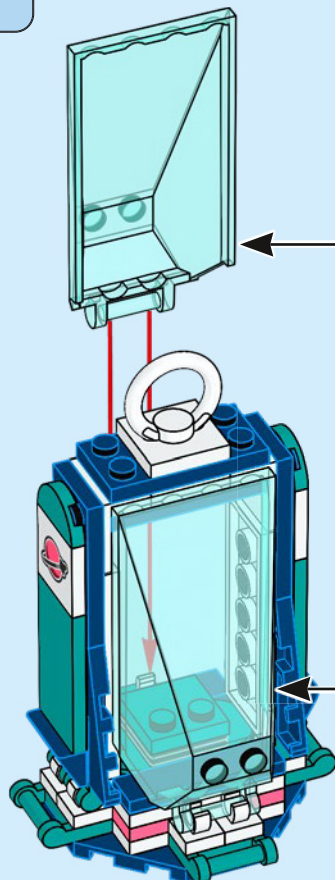


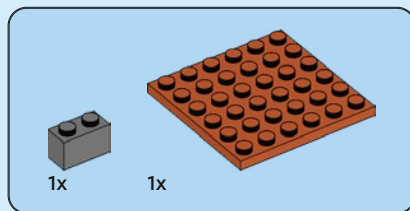
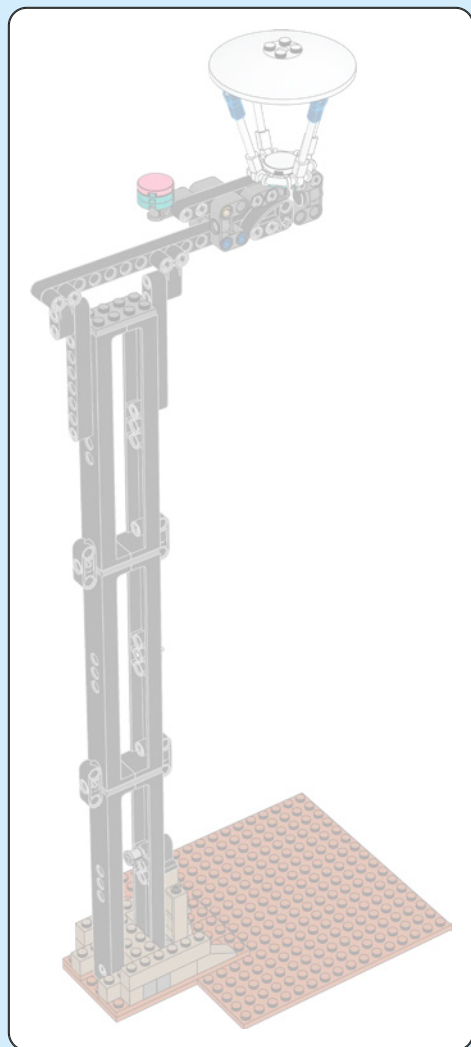
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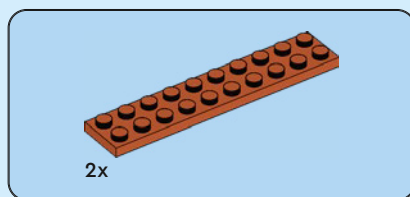
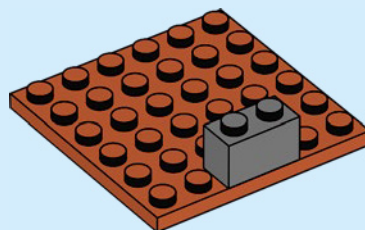
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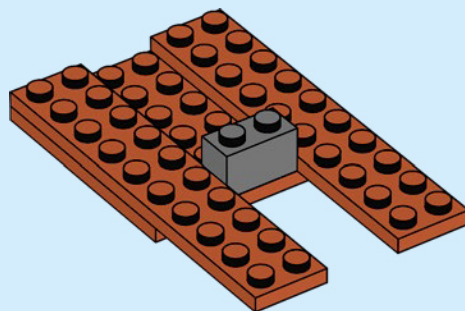


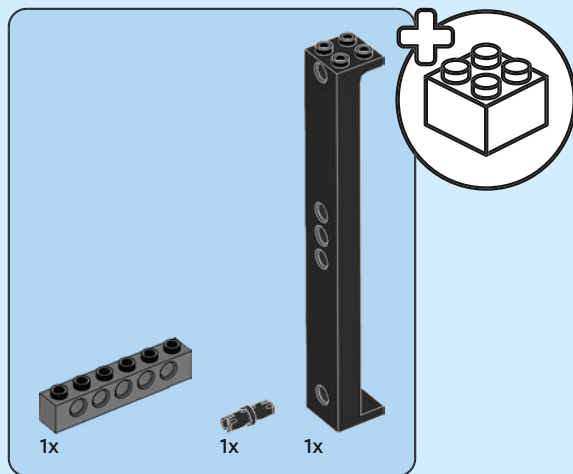


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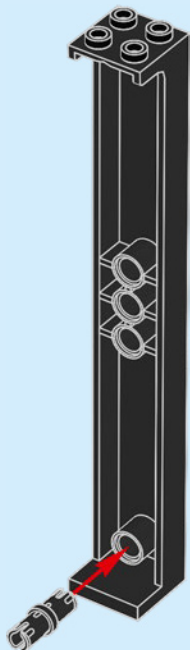
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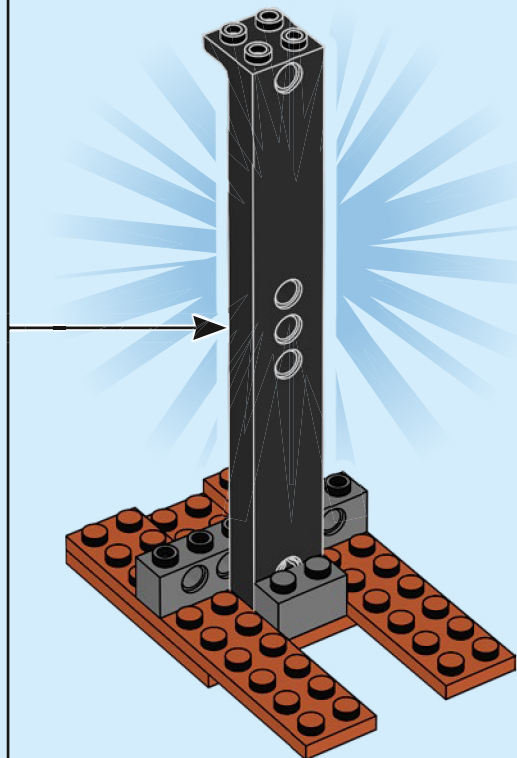
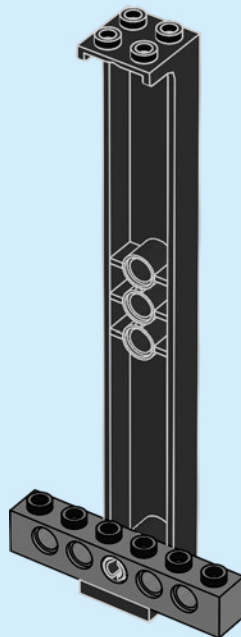


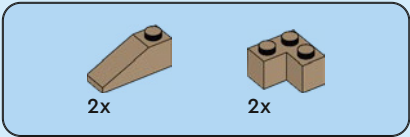
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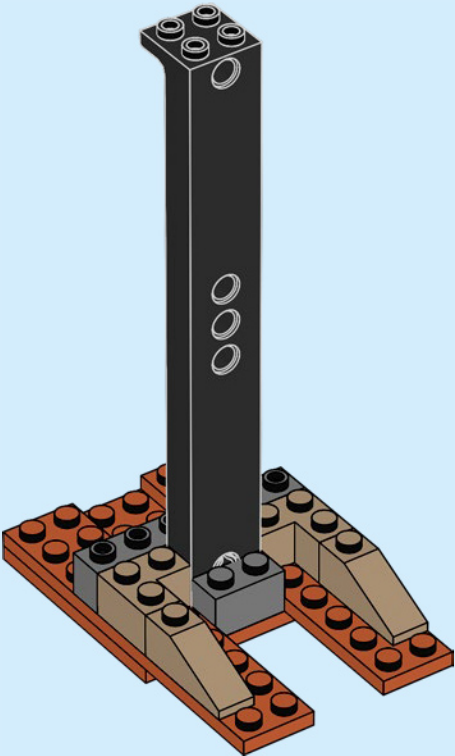


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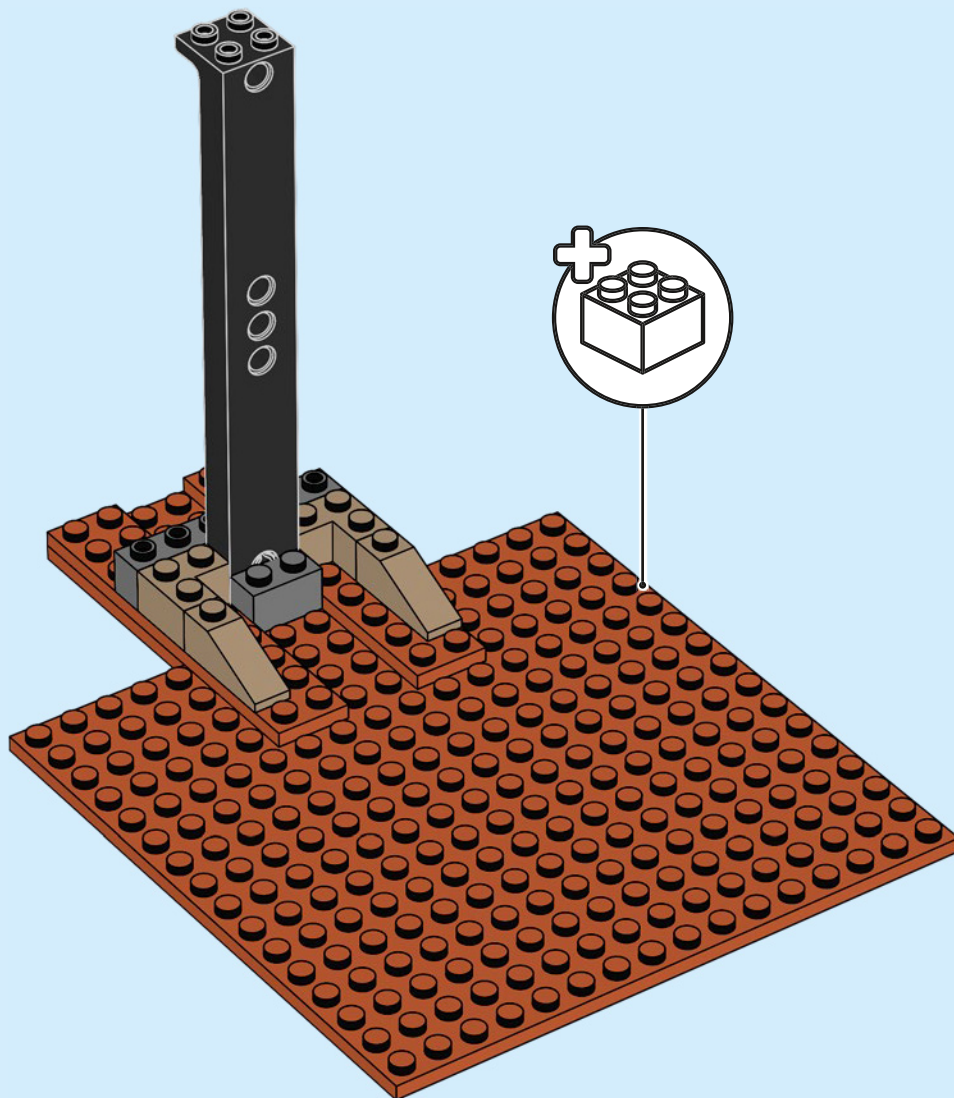


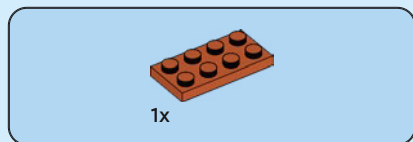


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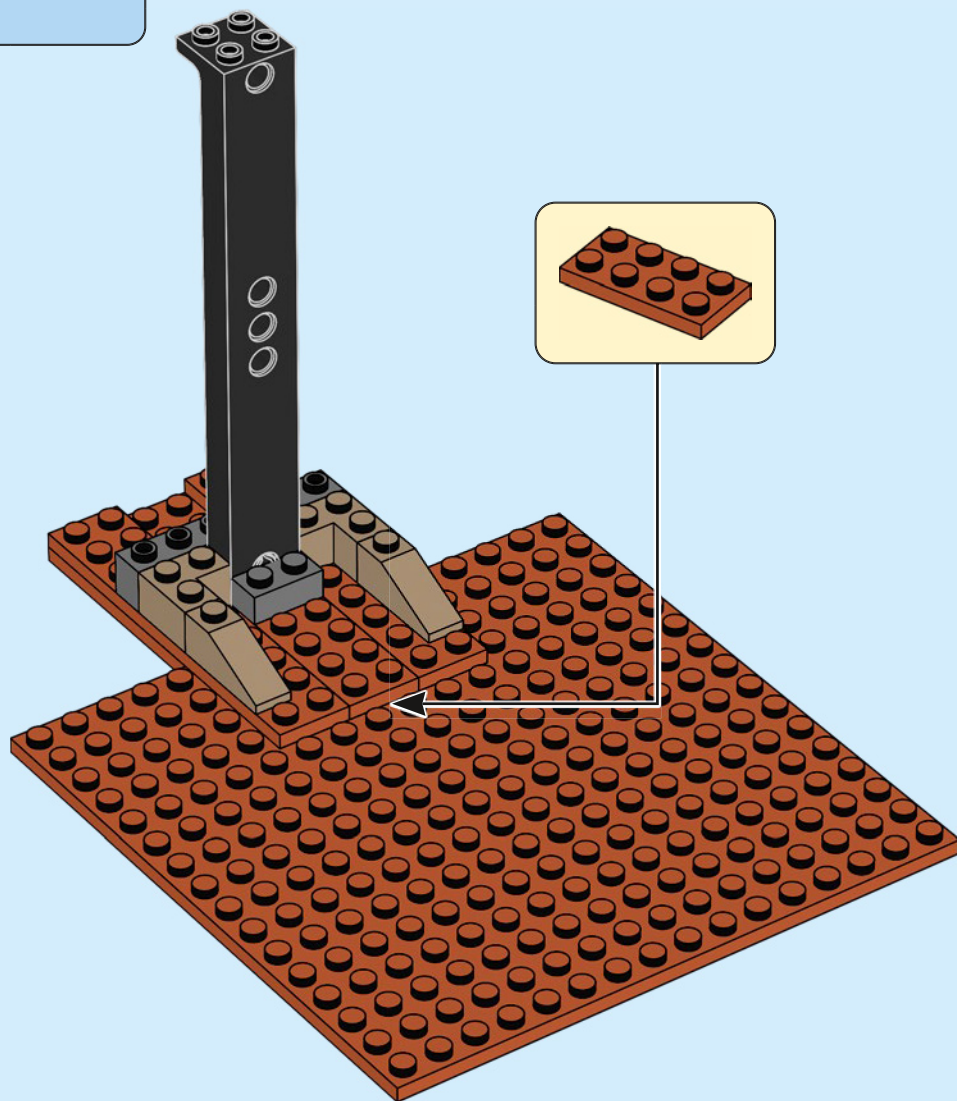


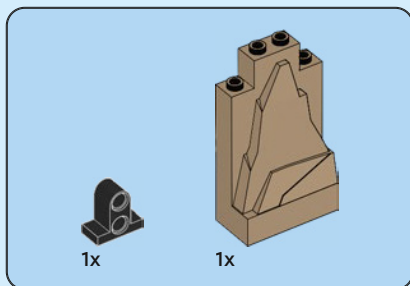
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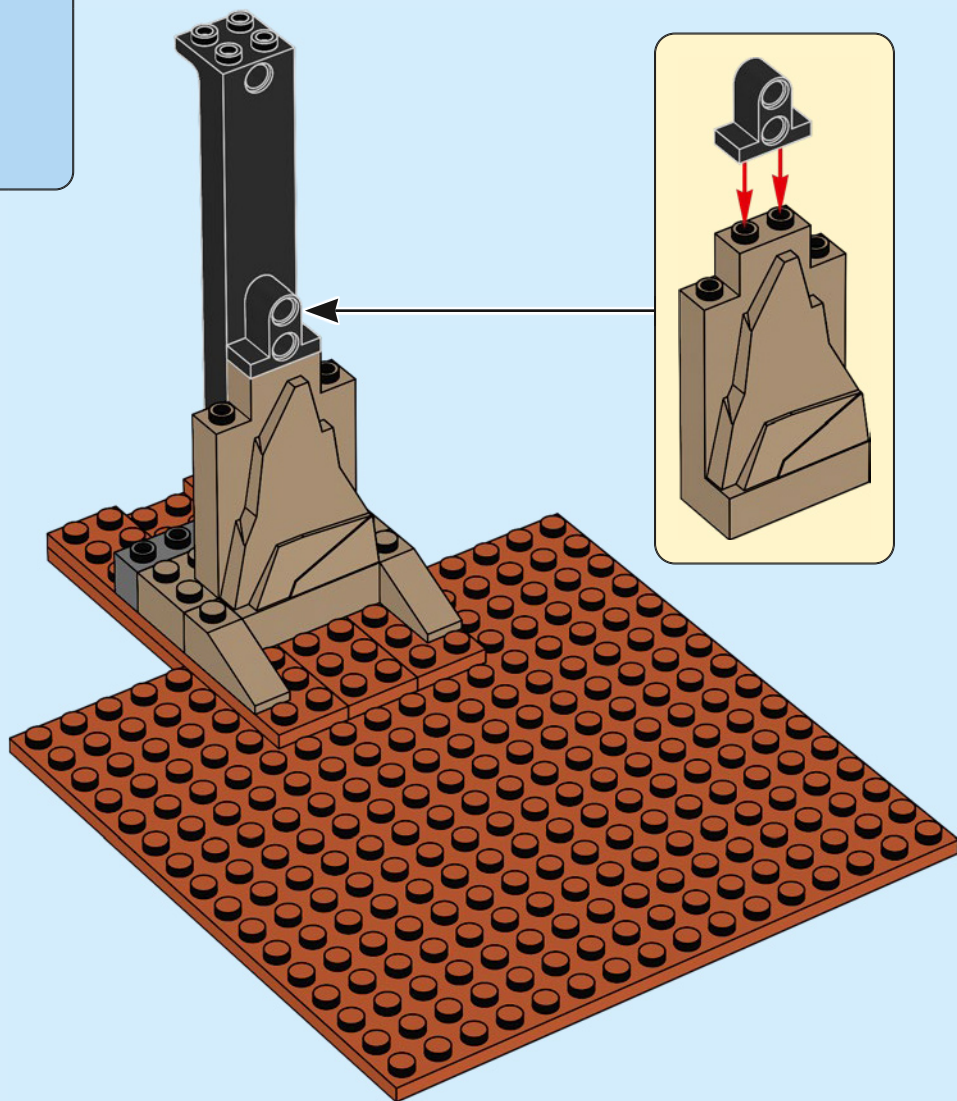


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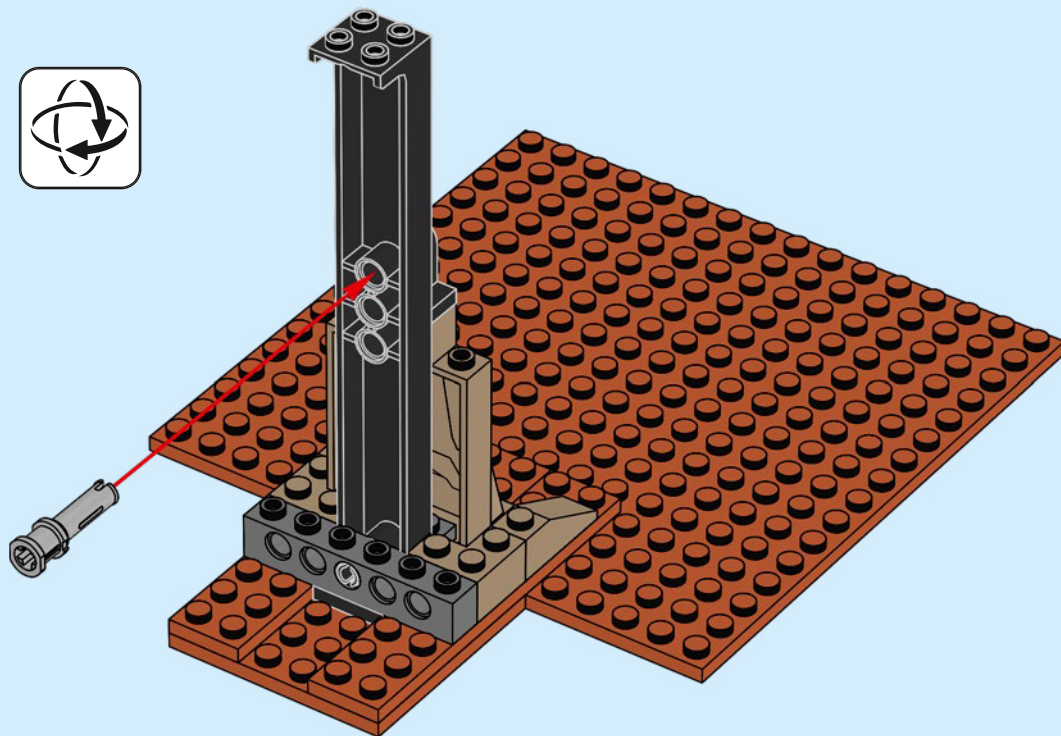
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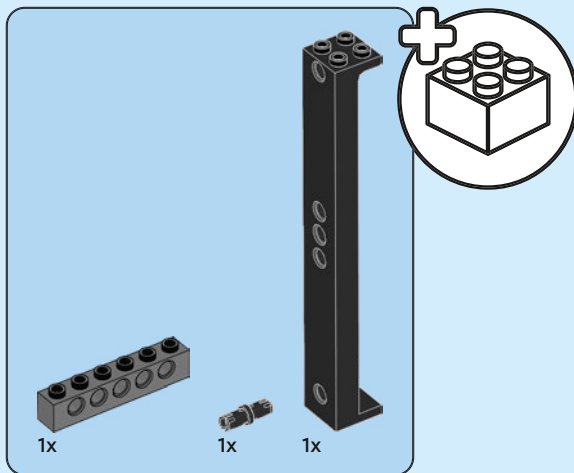




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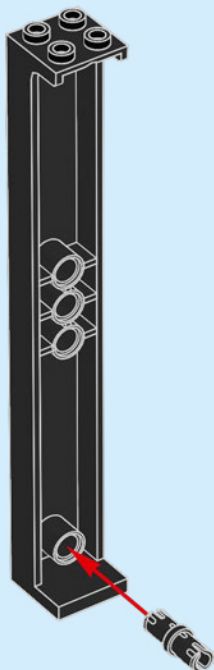
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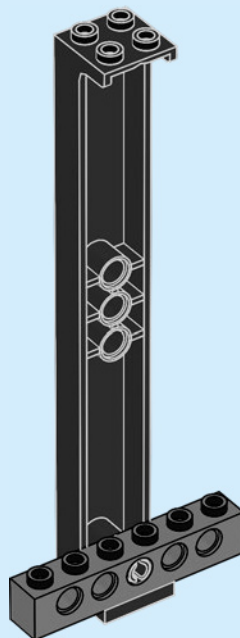


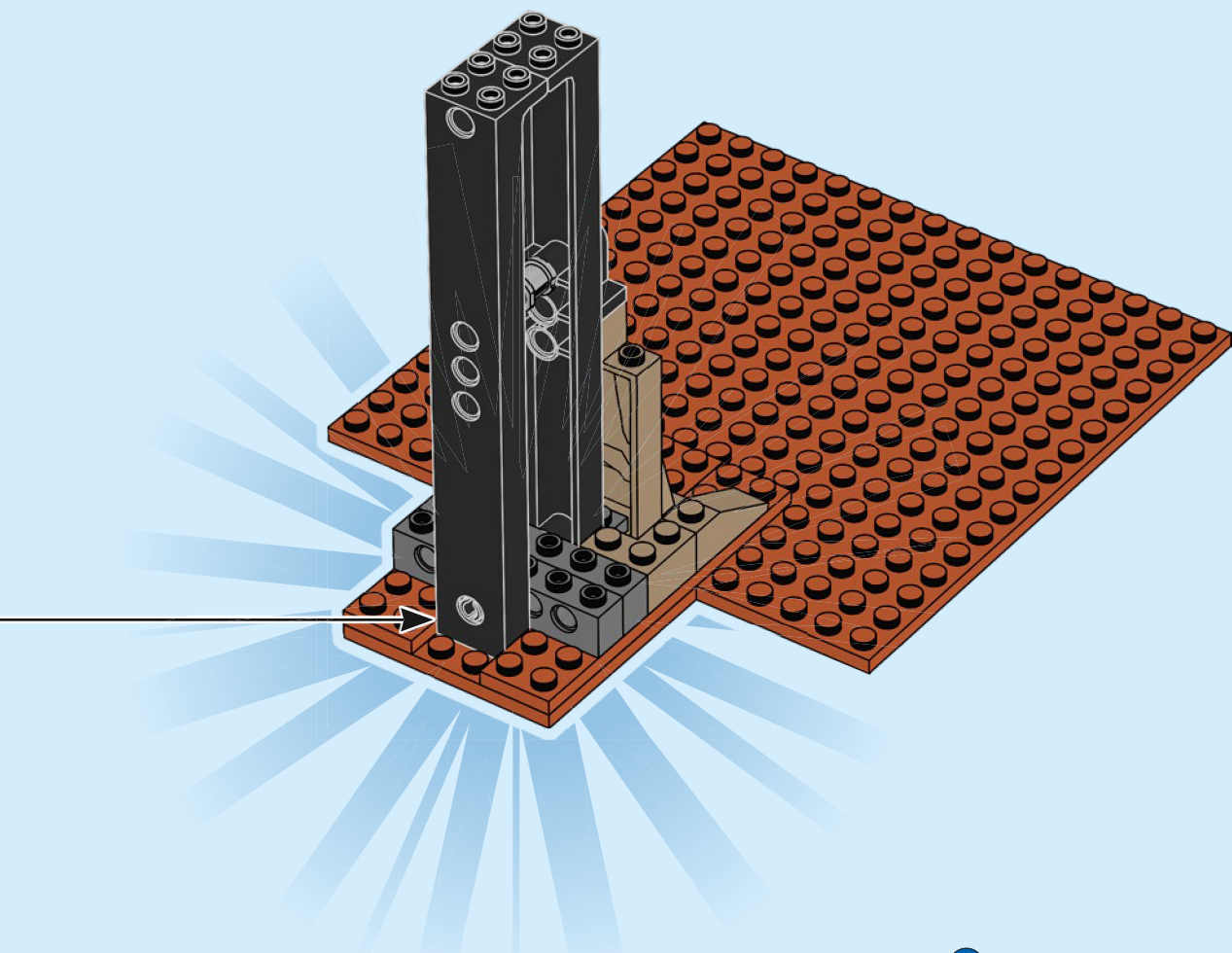
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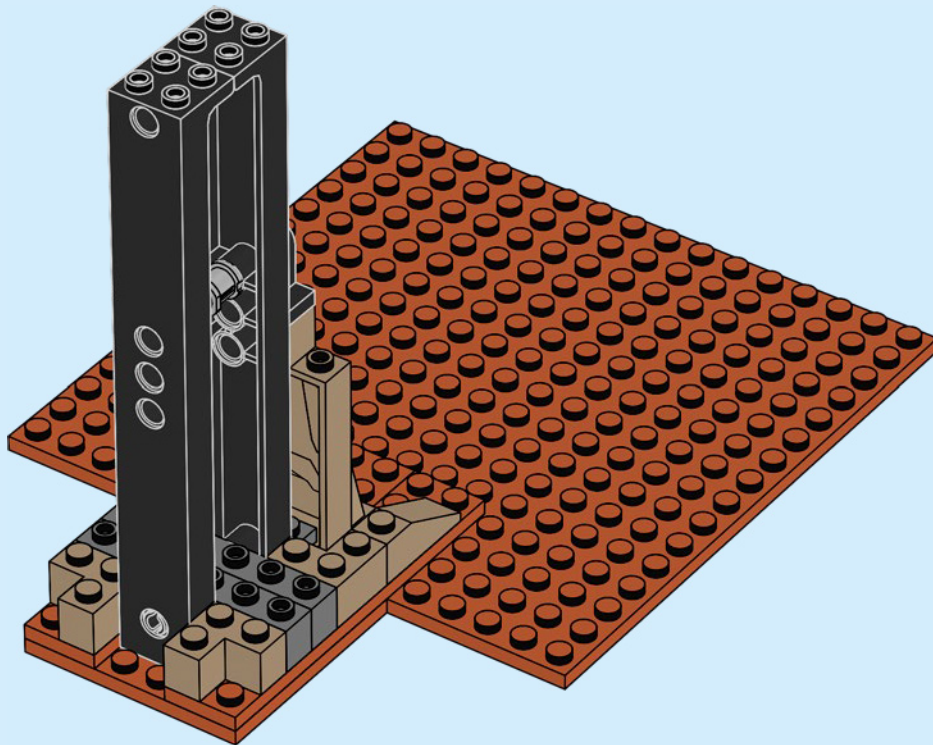


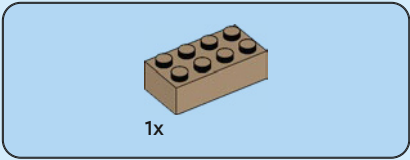




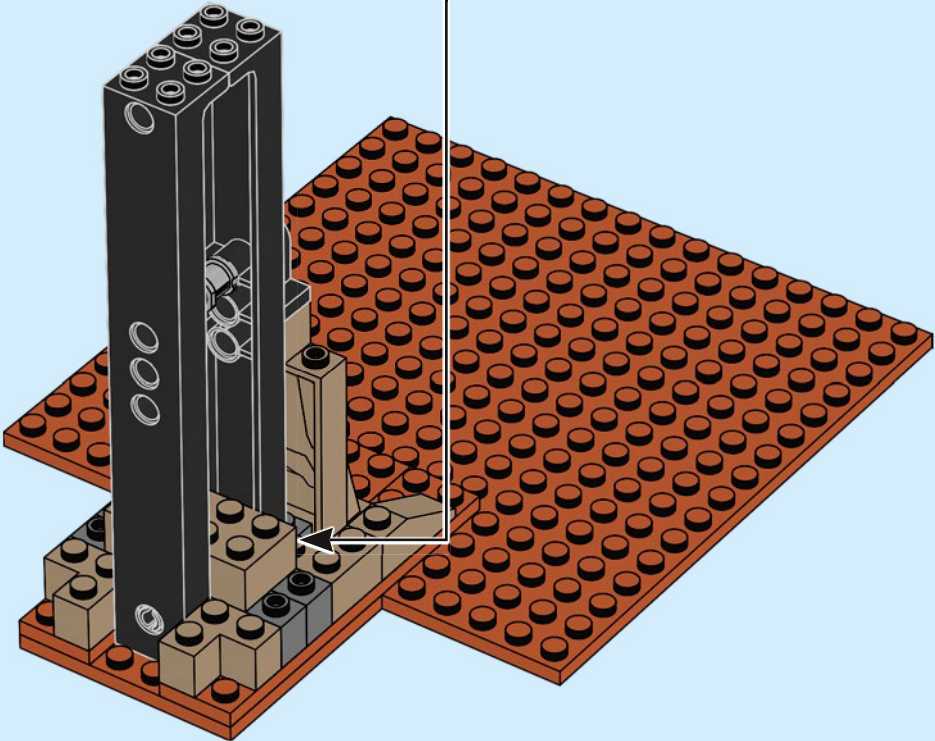
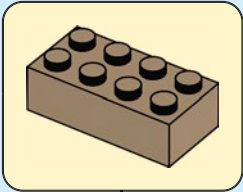
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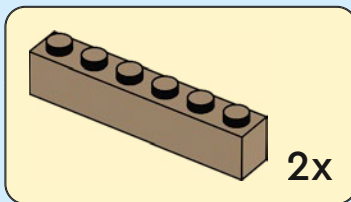
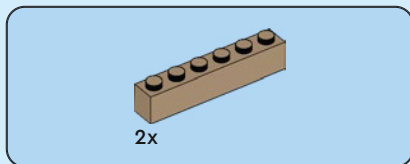
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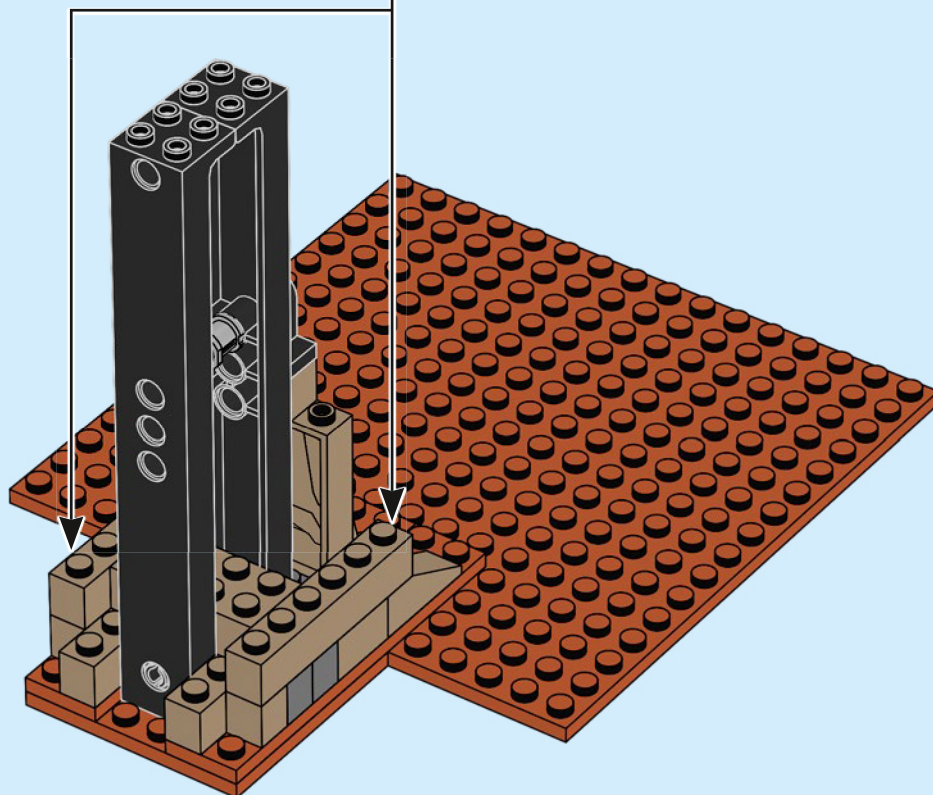


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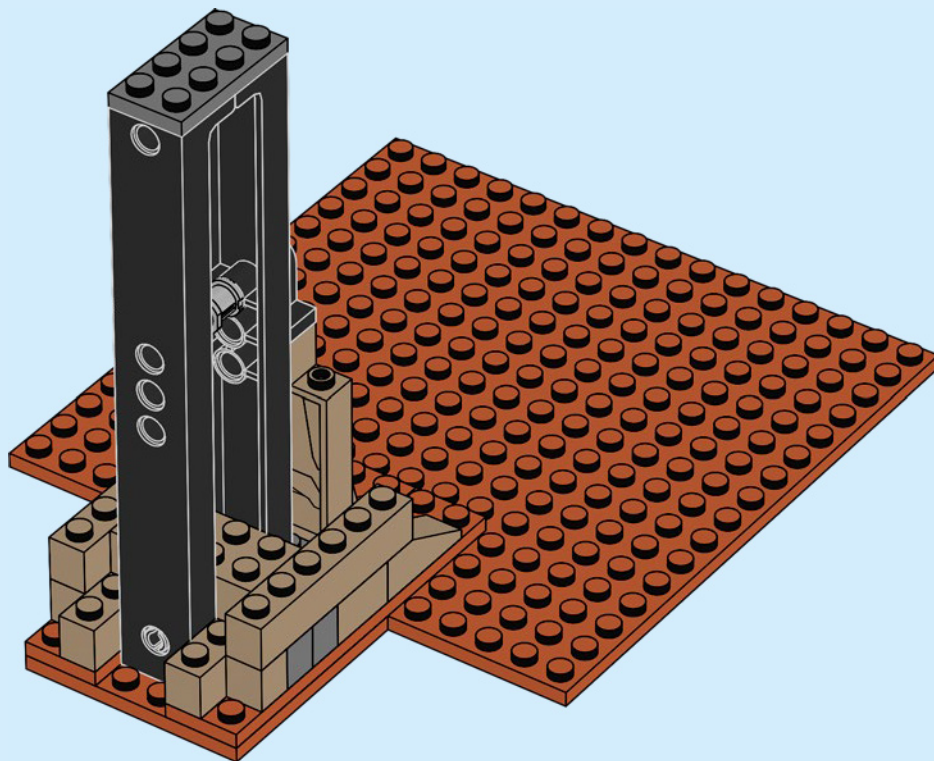
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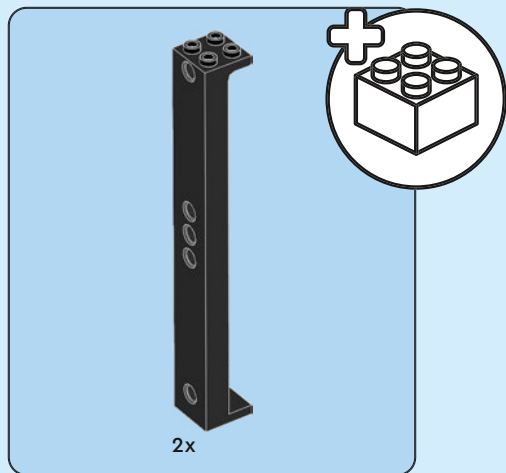




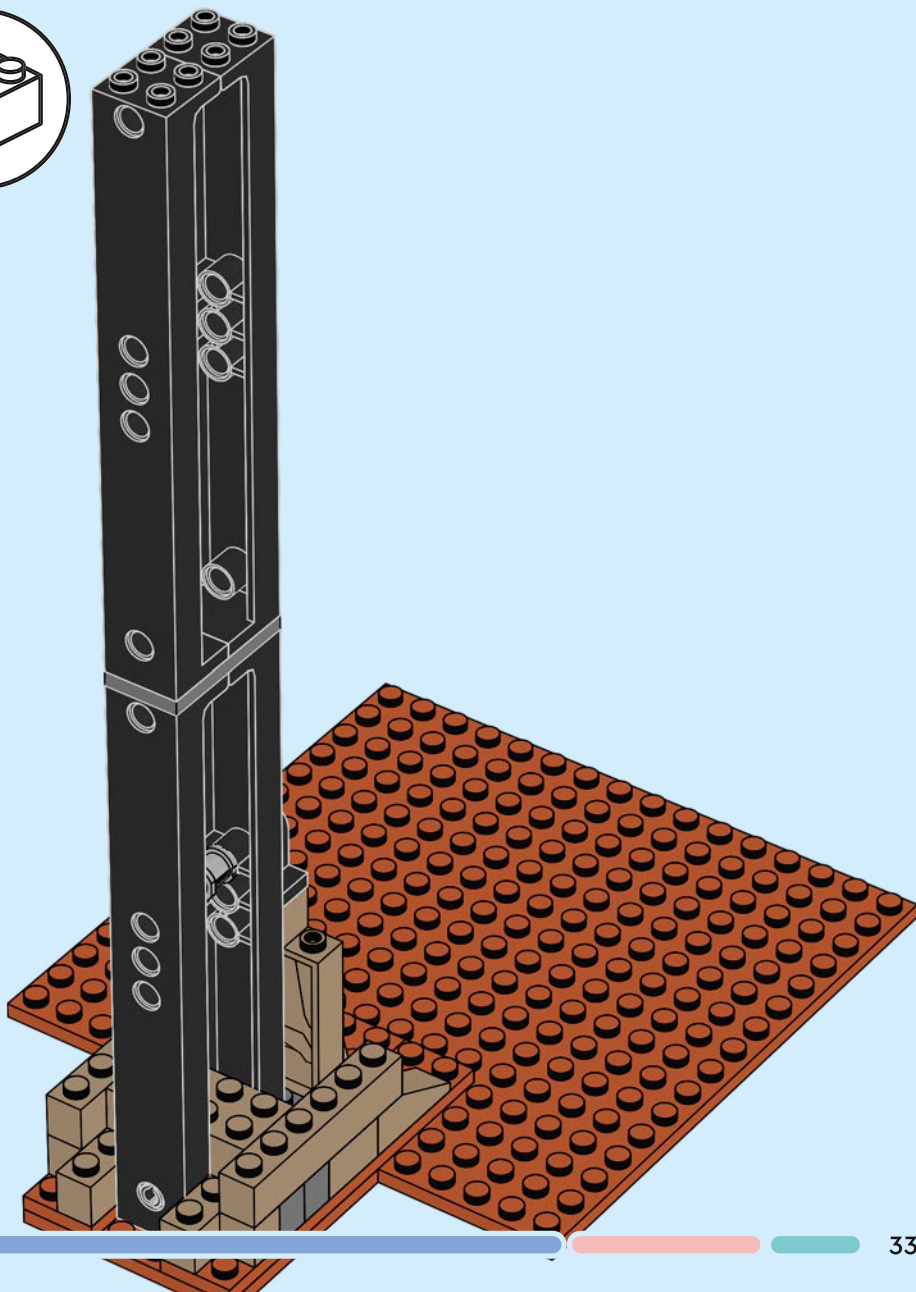
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13





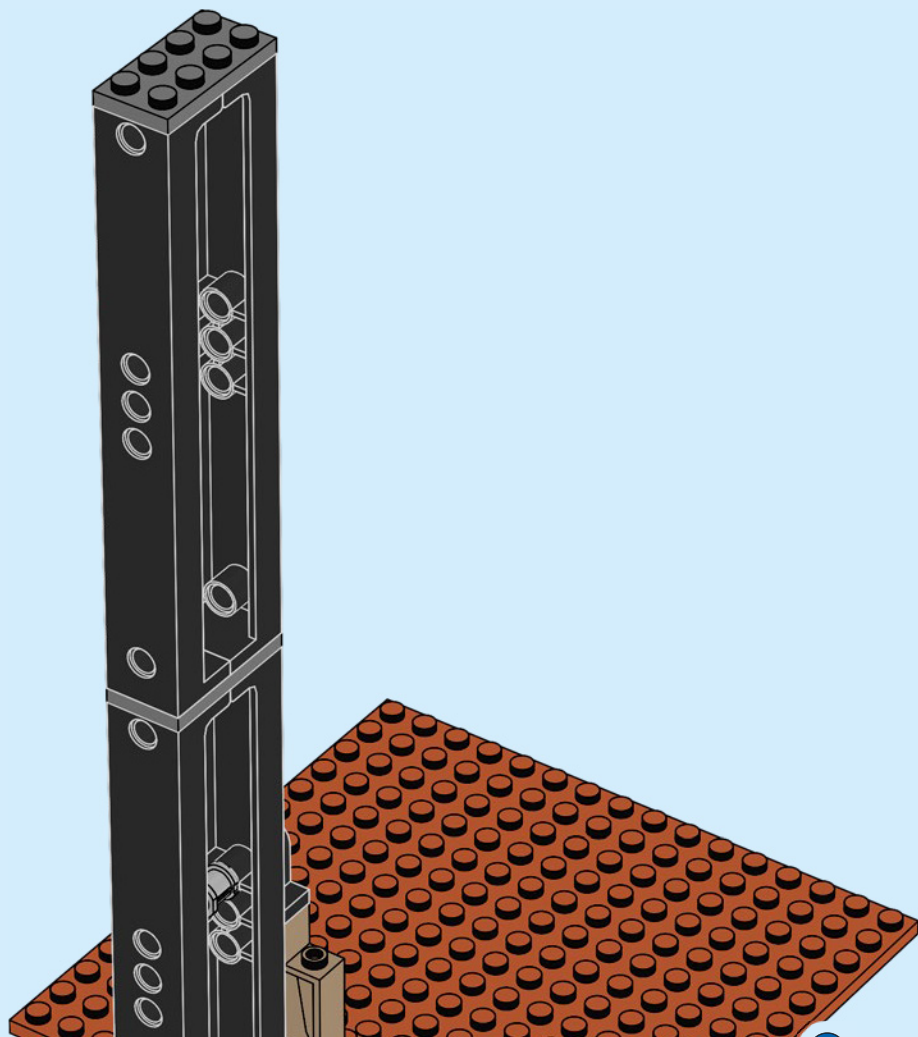
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1x

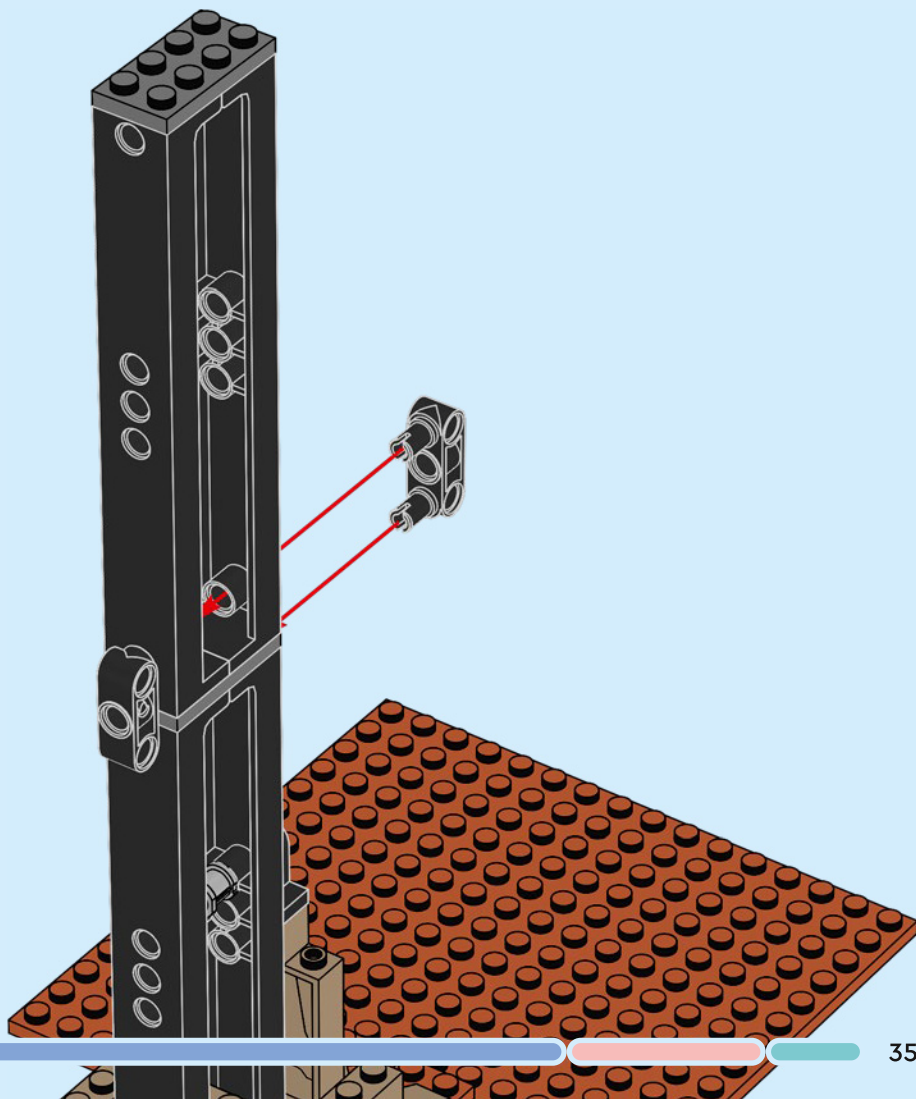
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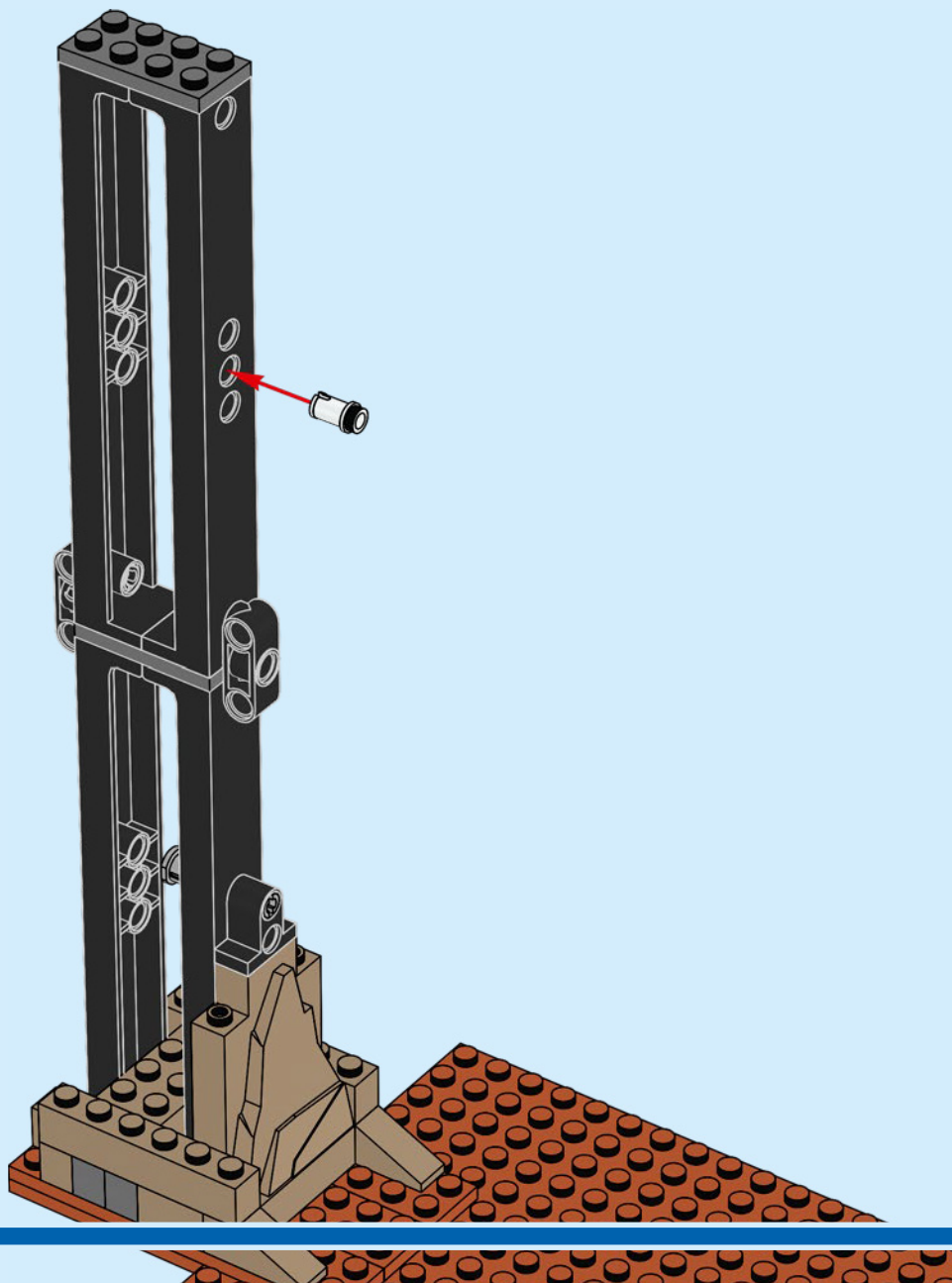
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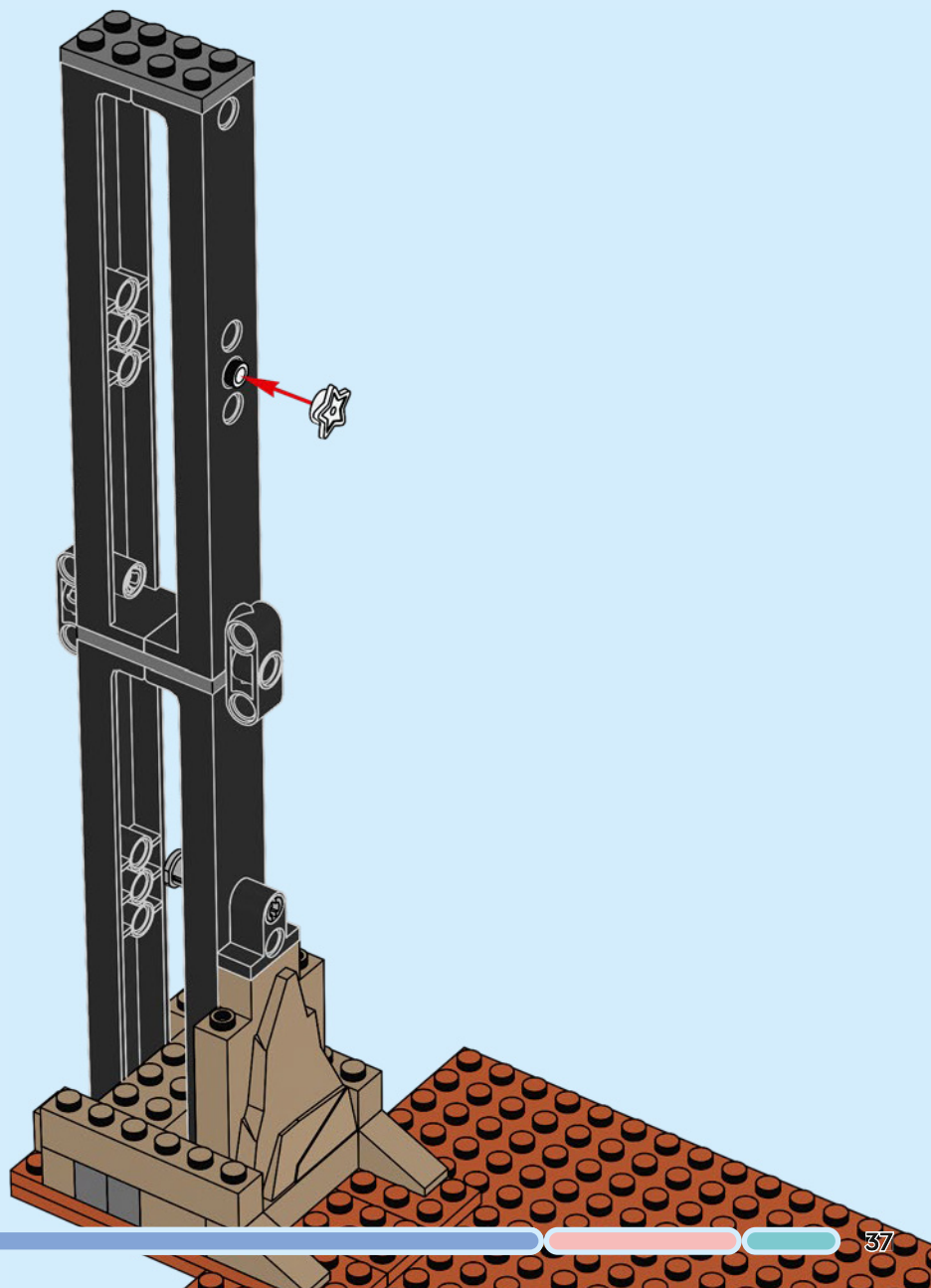


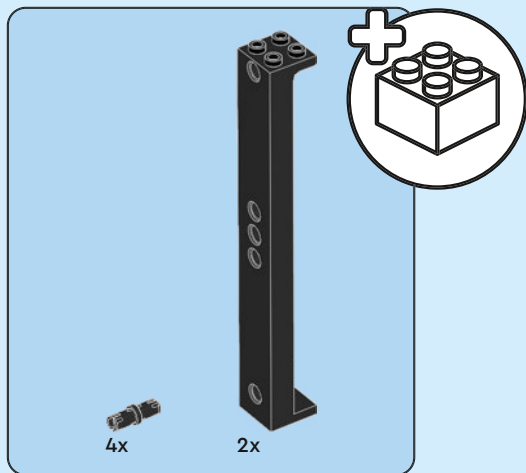
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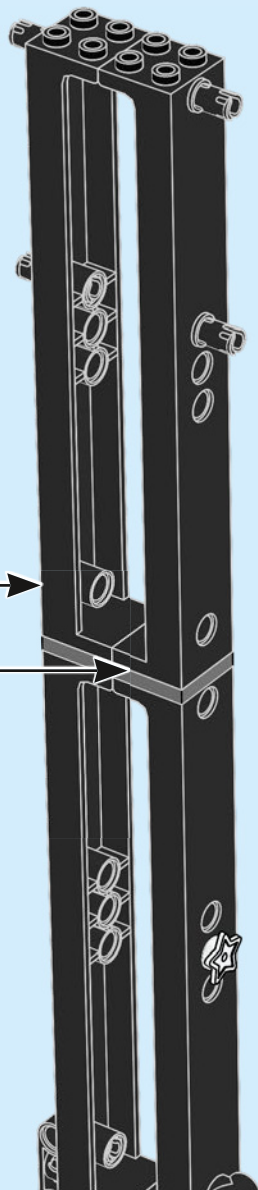
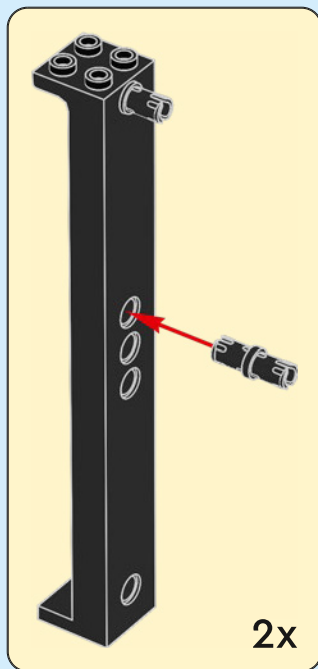


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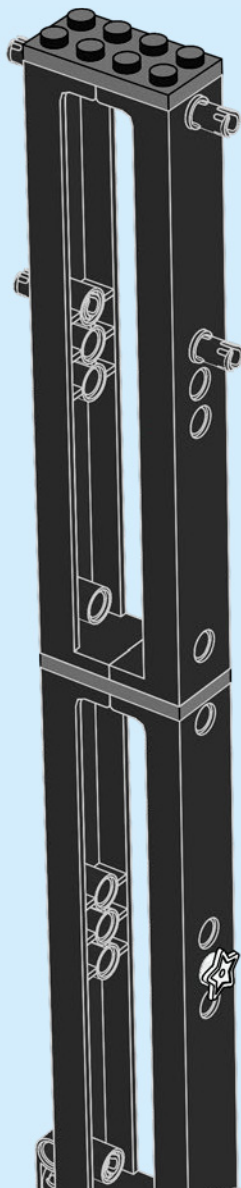
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1x

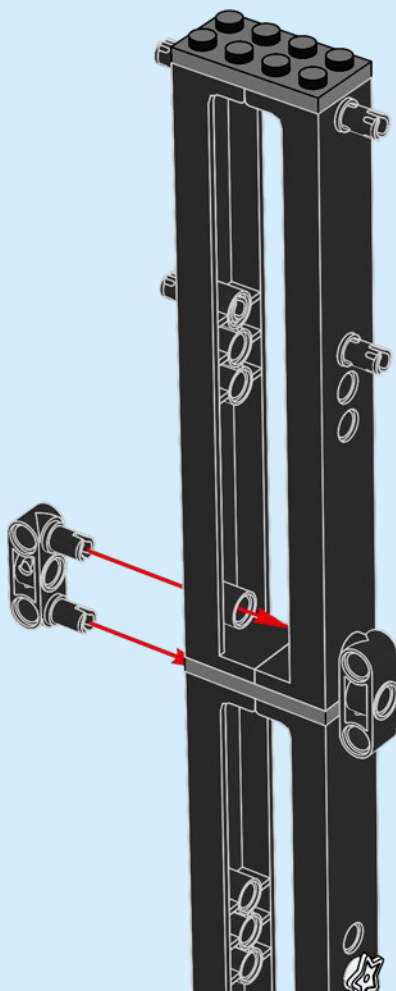
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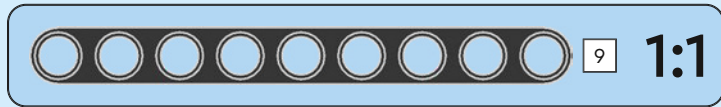
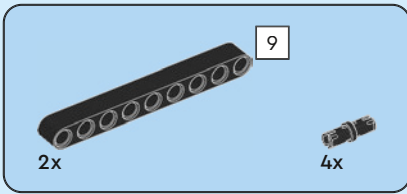




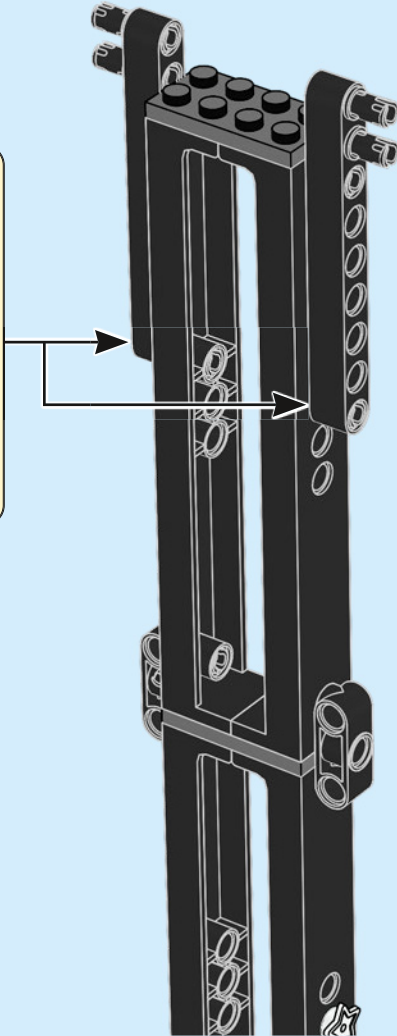
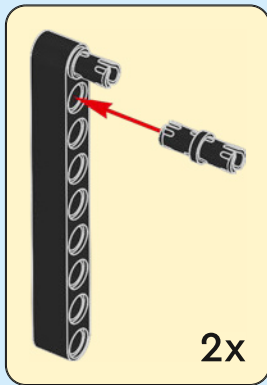
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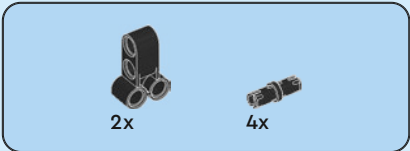
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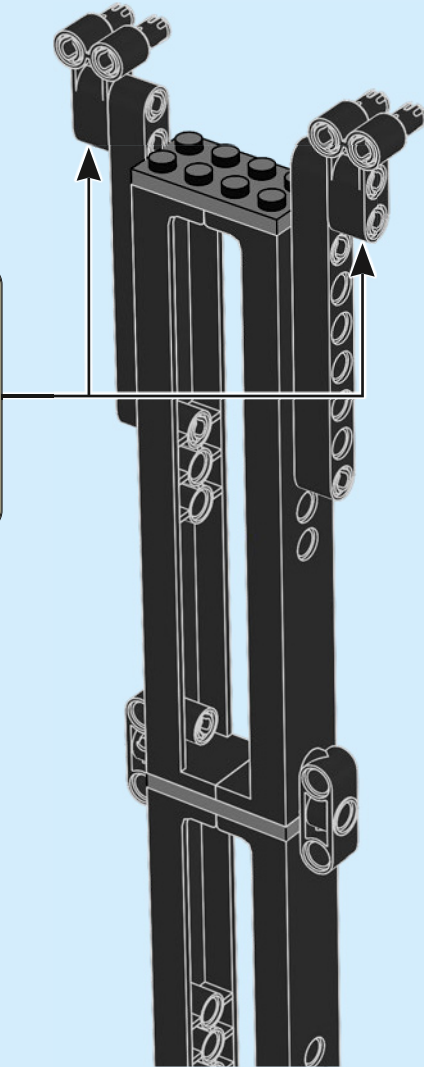
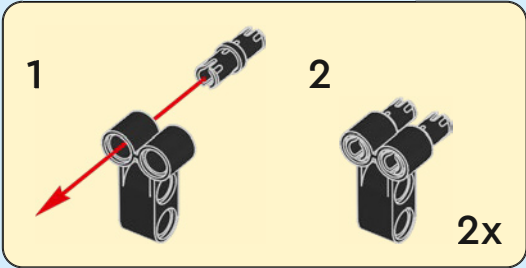


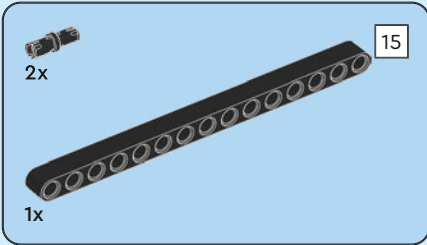
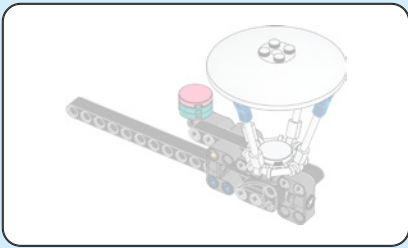
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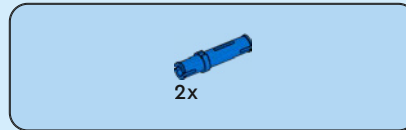
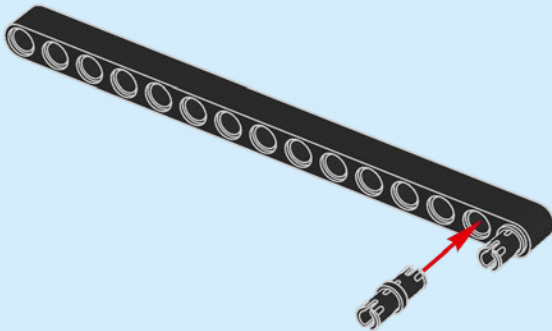


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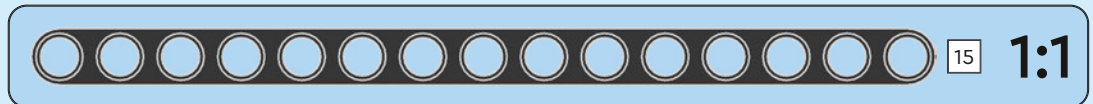
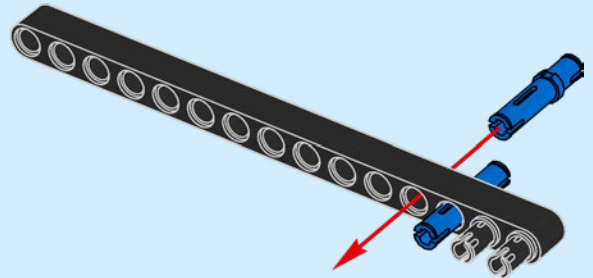




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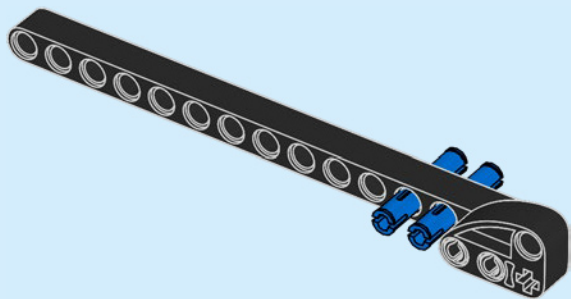
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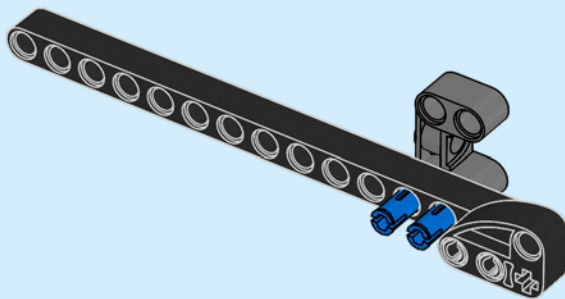
1x

26



1x

27





1x



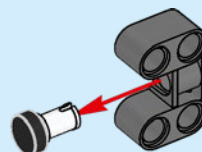
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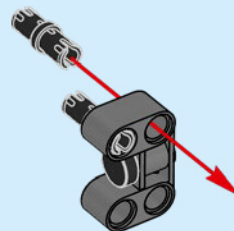
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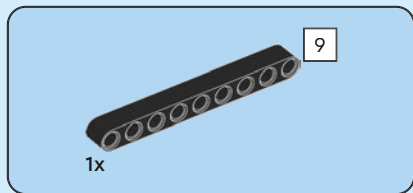
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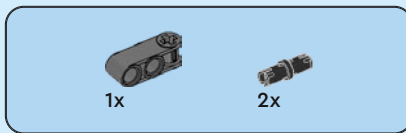
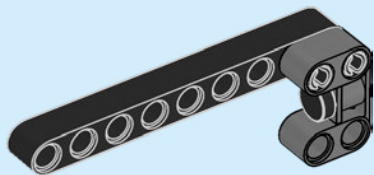
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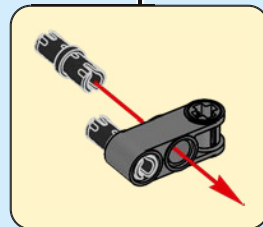
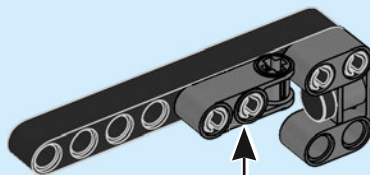




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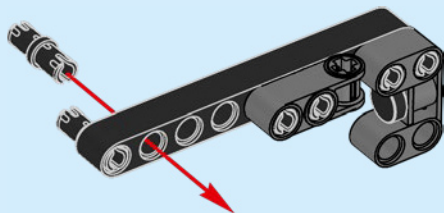


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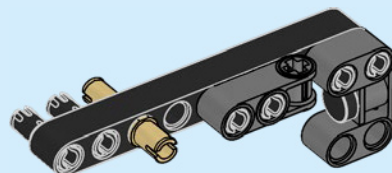




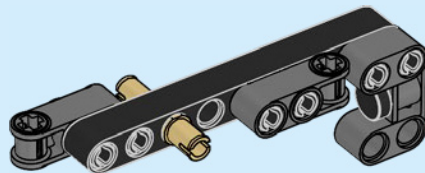
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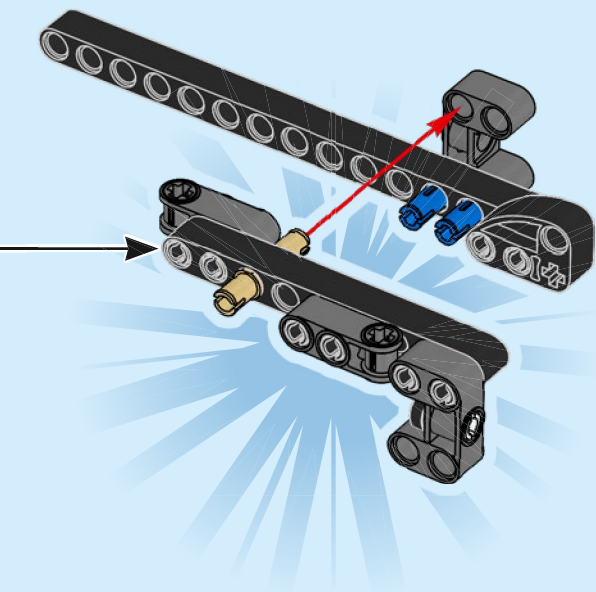
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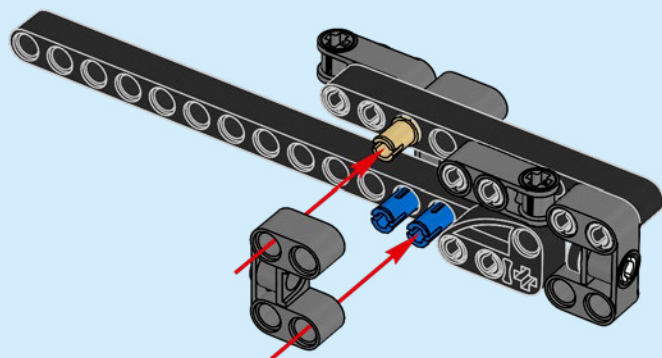


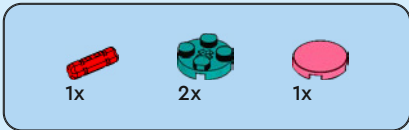
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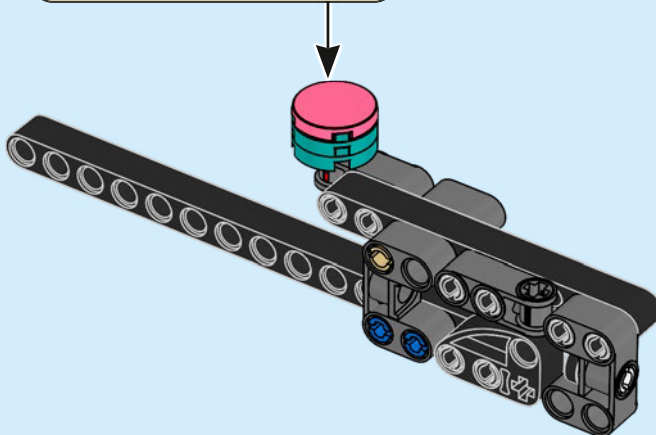
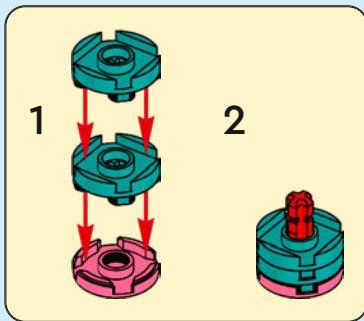
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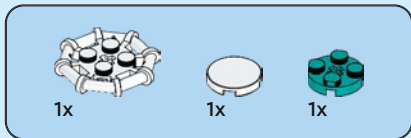
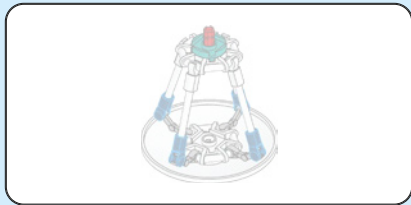
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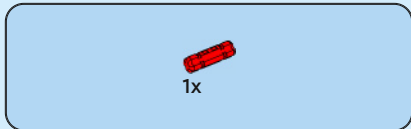
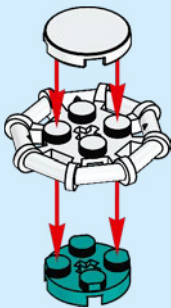


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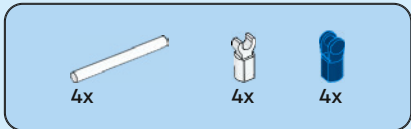
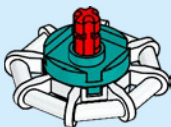




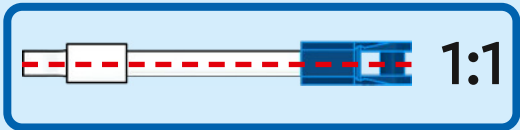
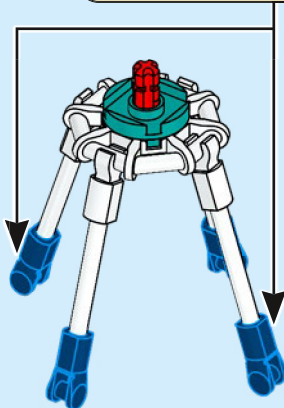
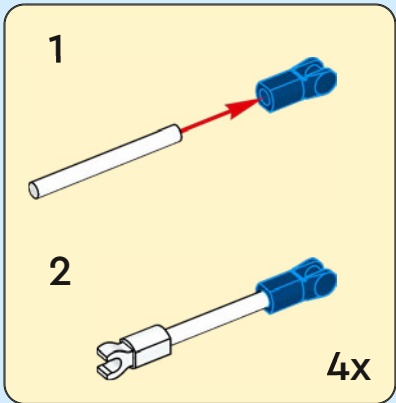
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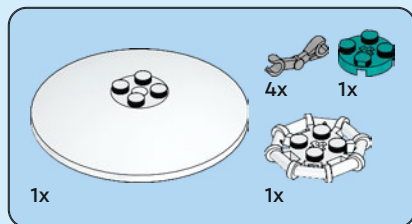


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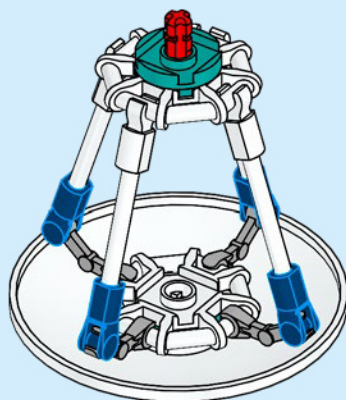
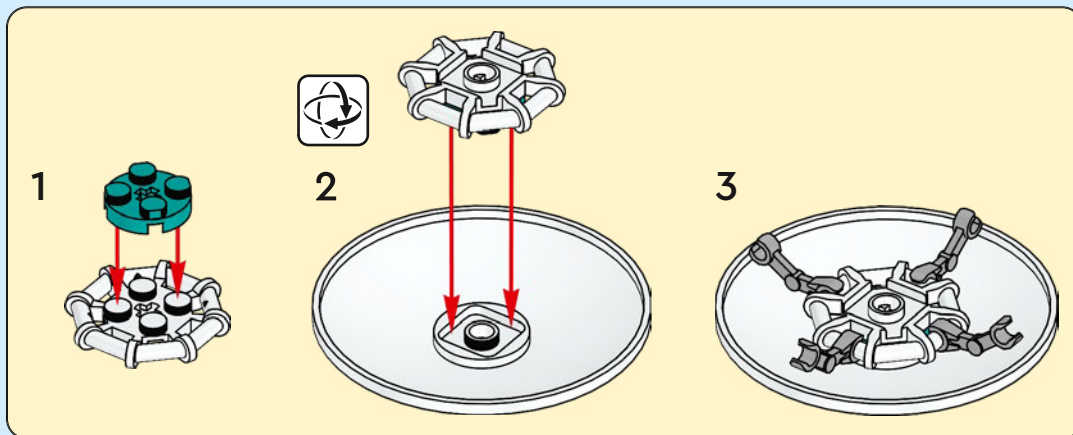


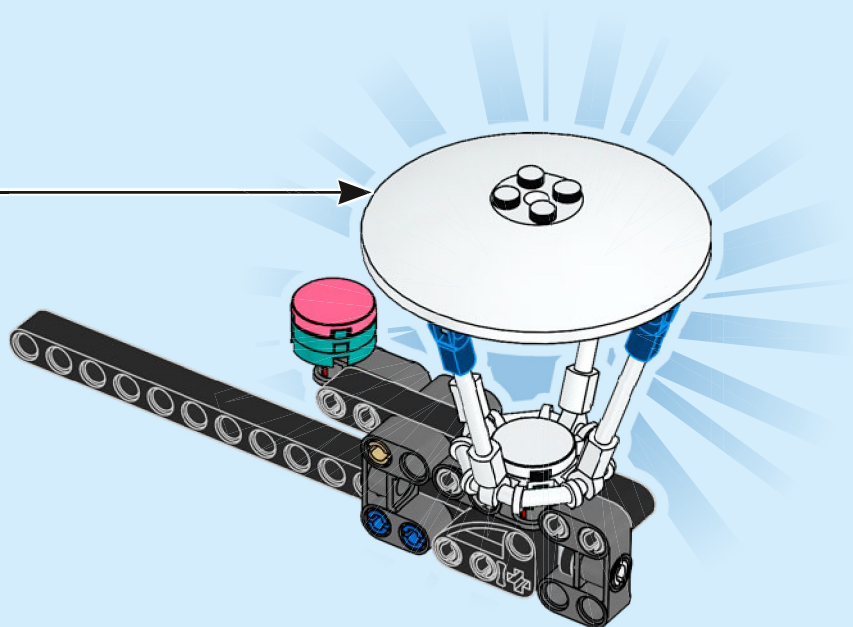
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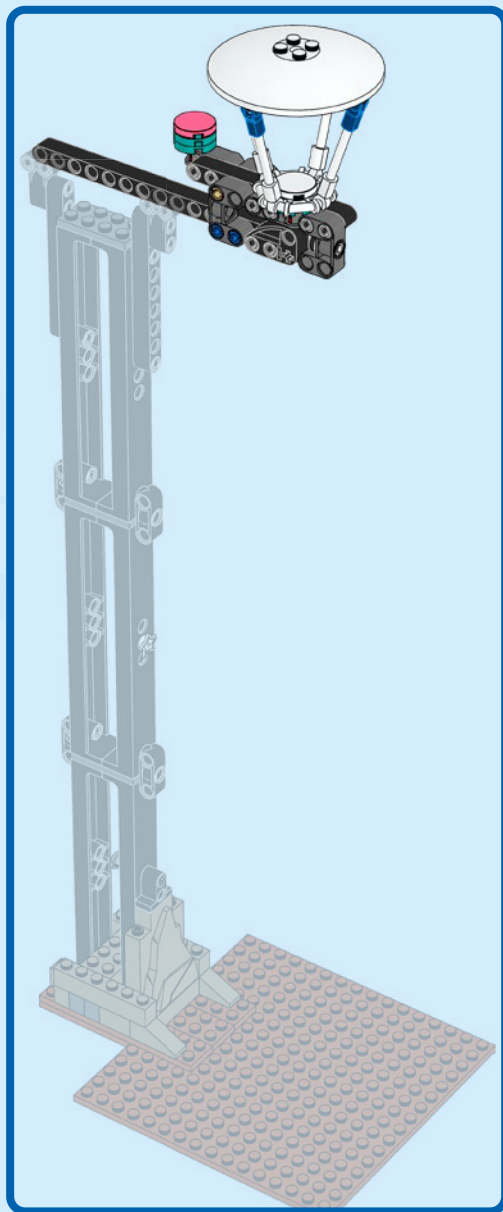
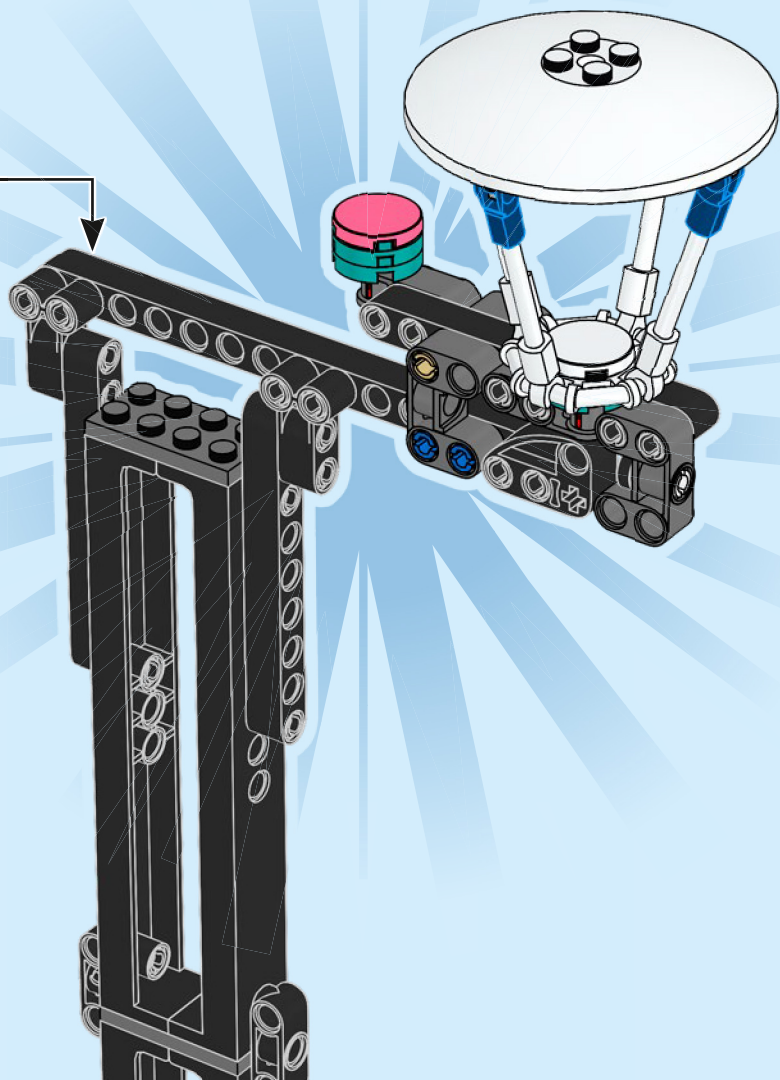


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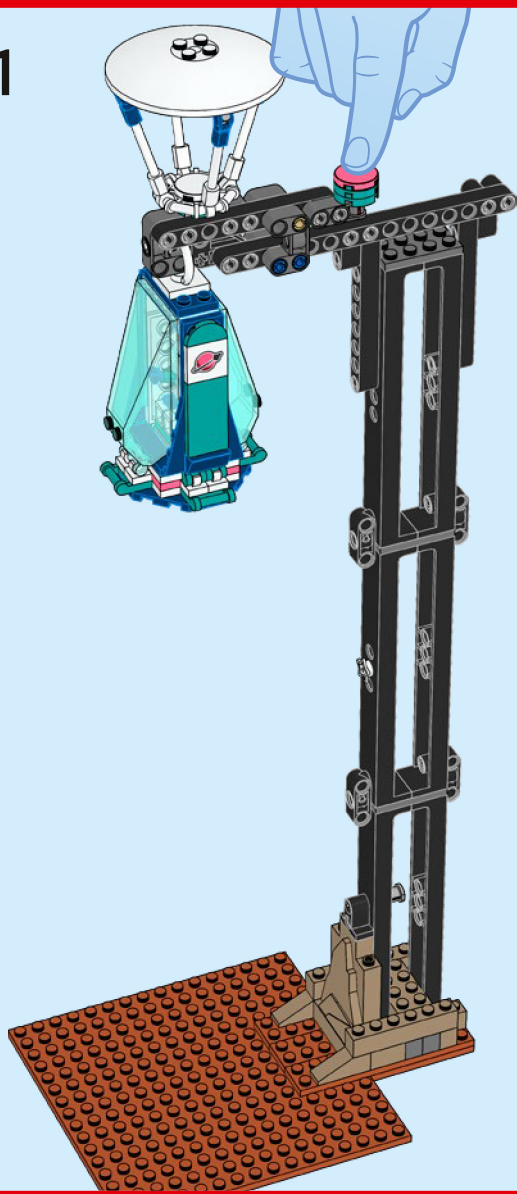




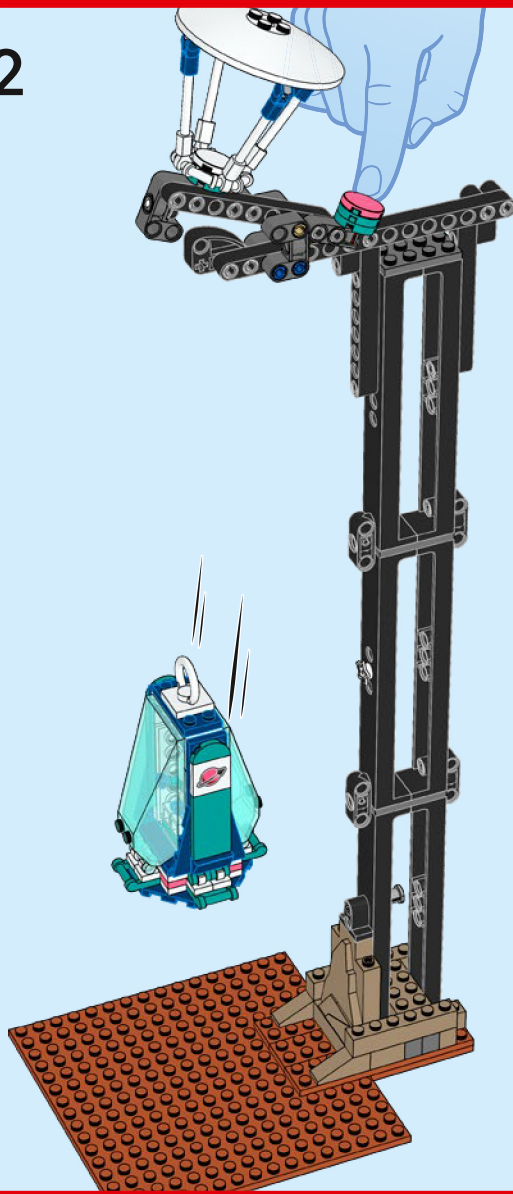
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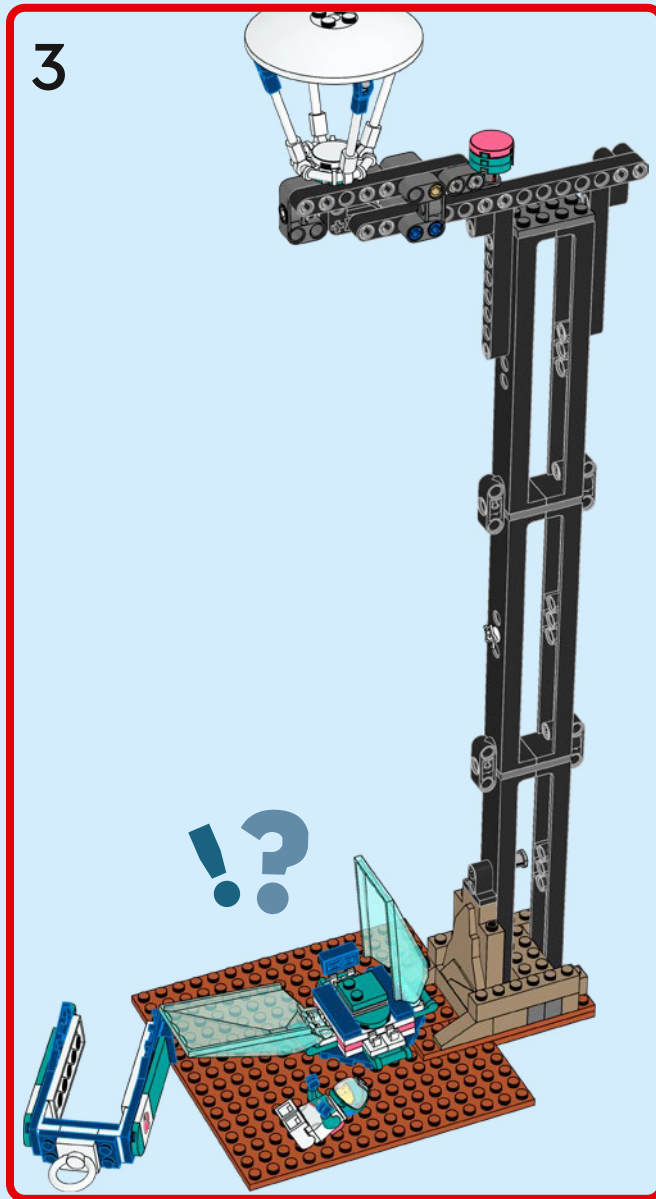
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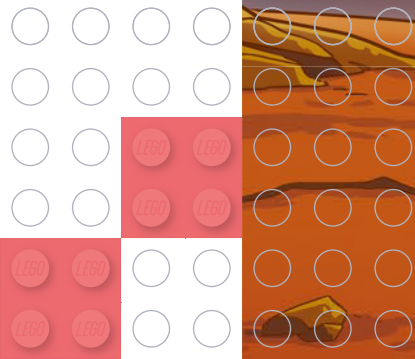


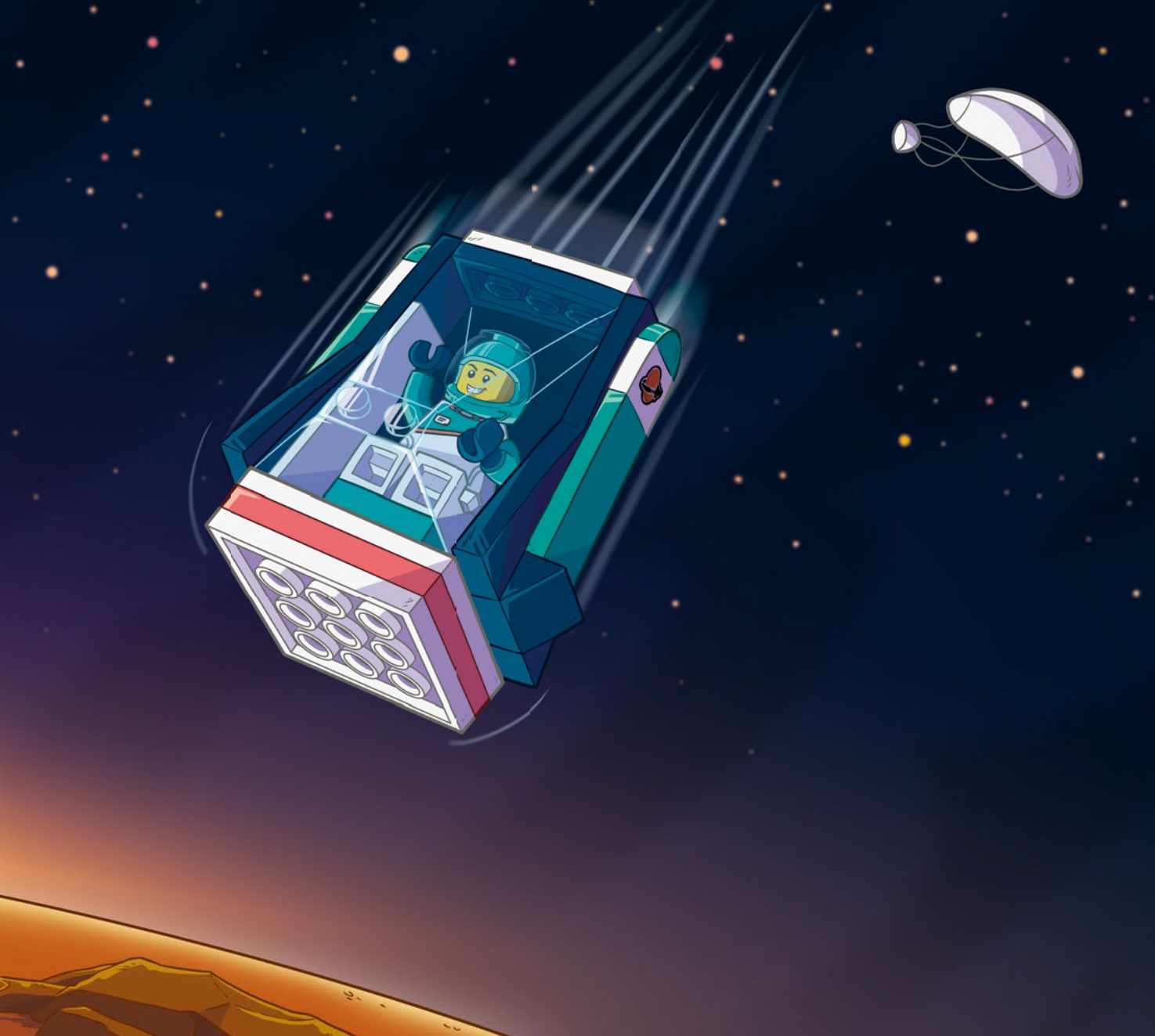
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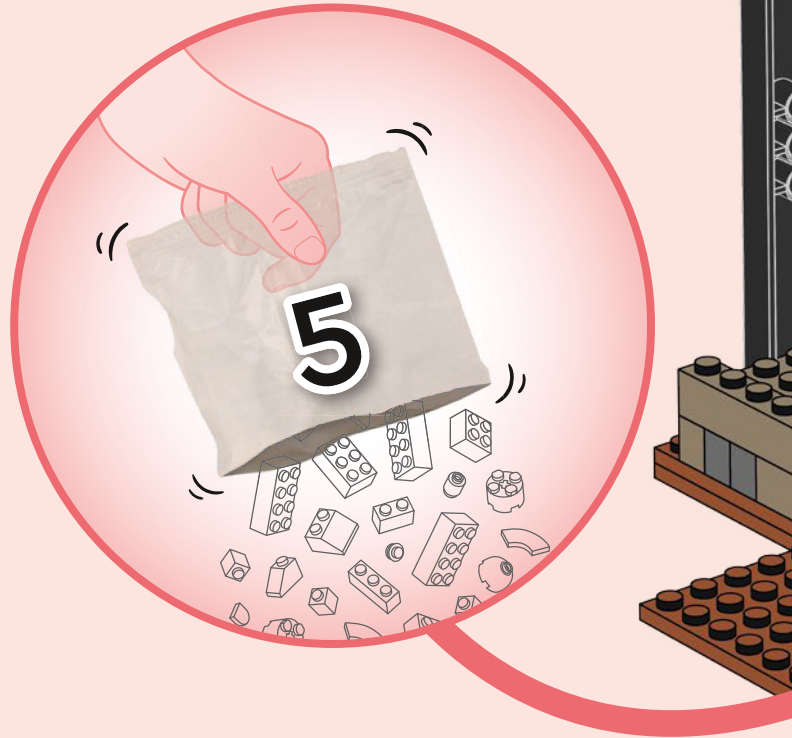


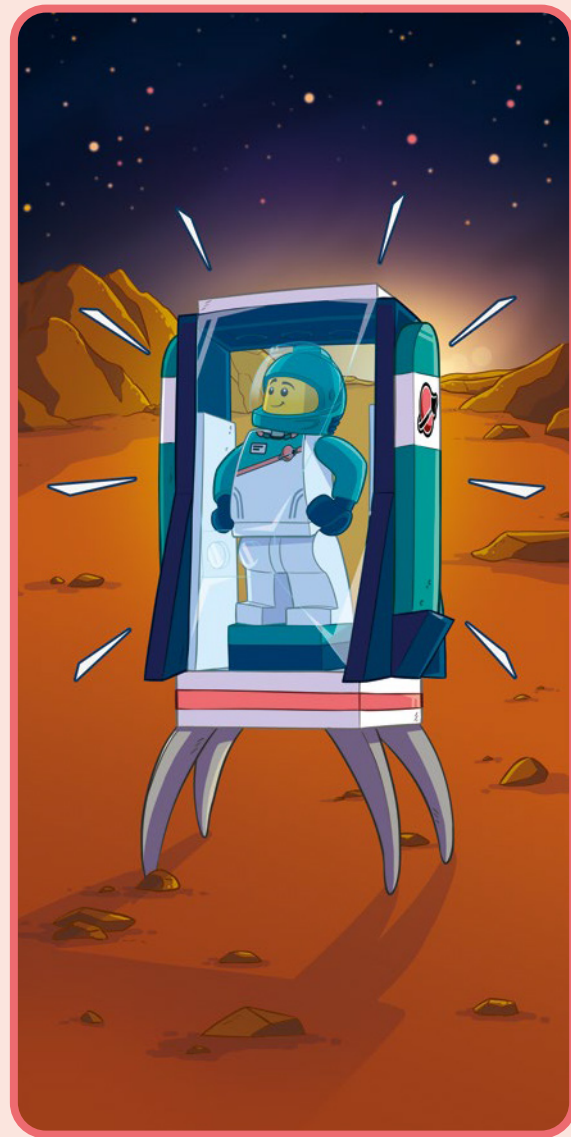
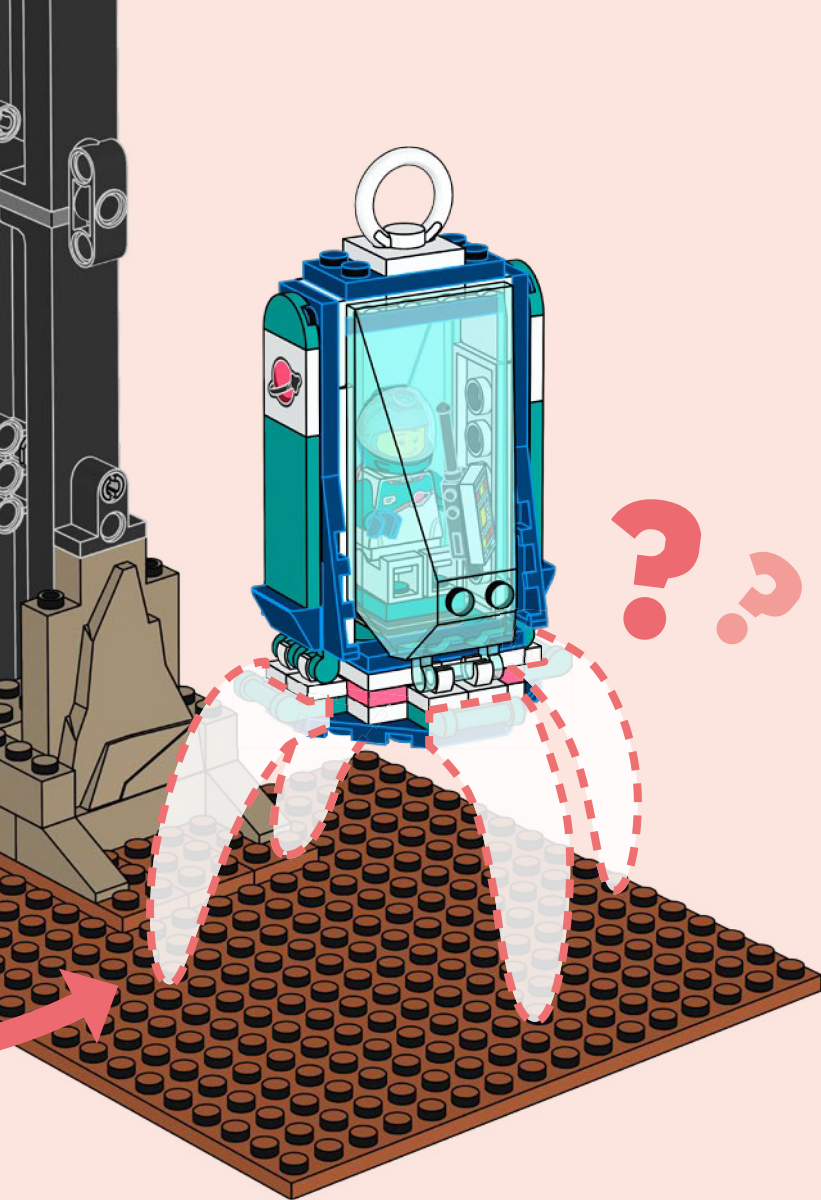


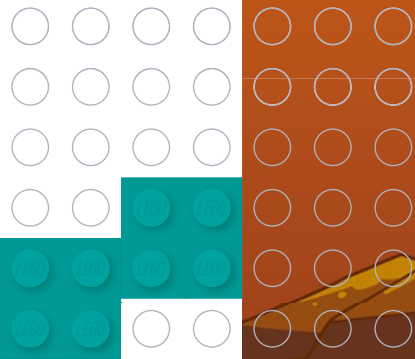




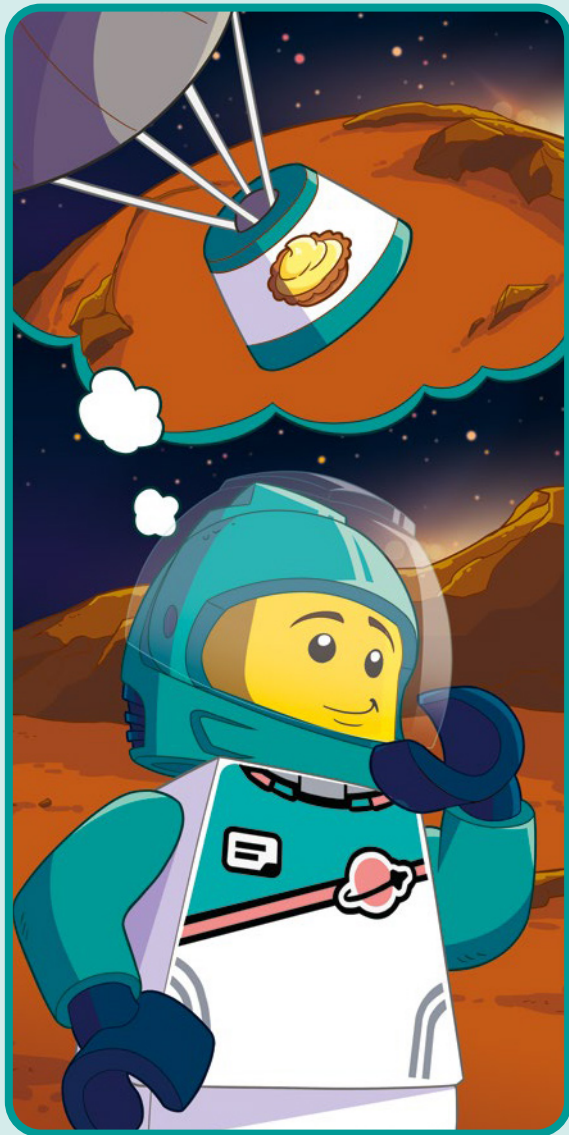
1











2



