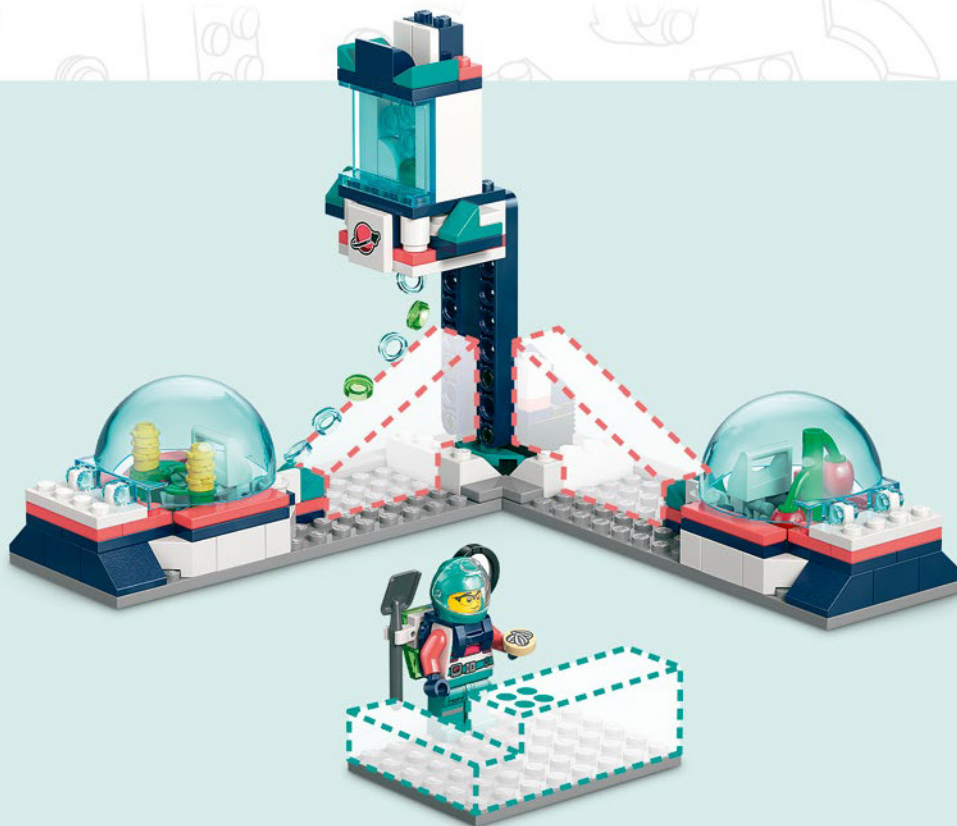




education™

Build
Solve
invent™

45200



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.

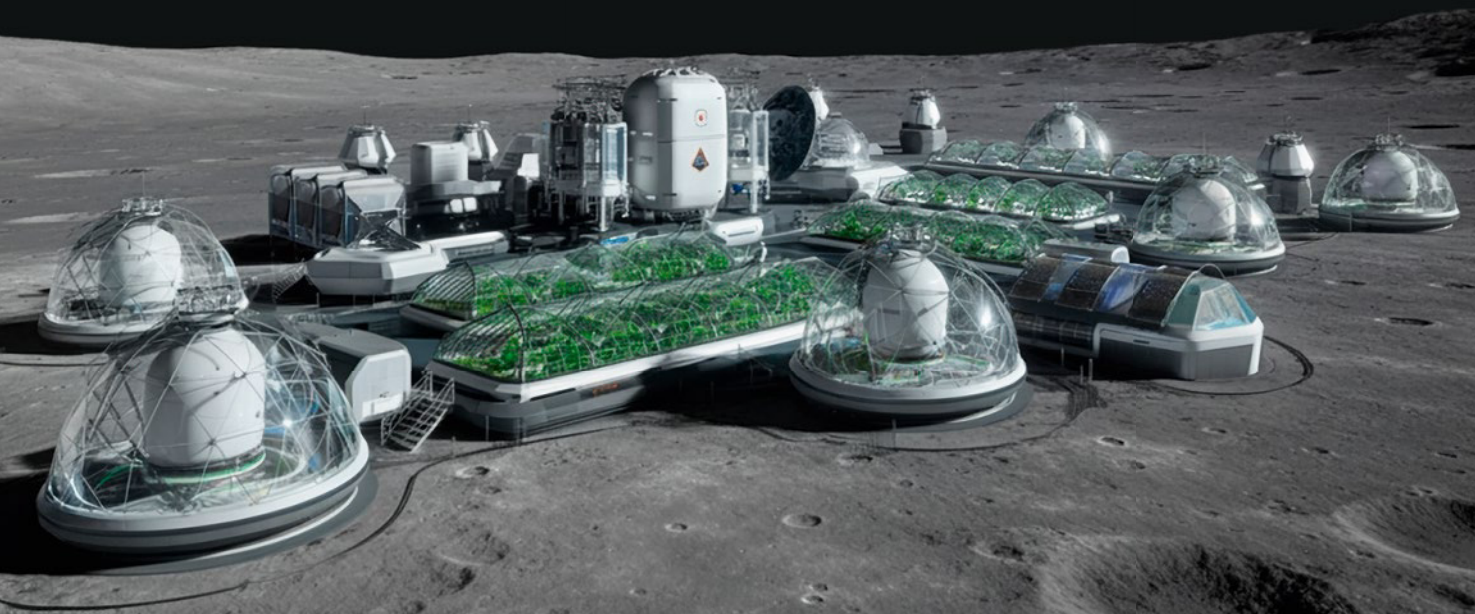
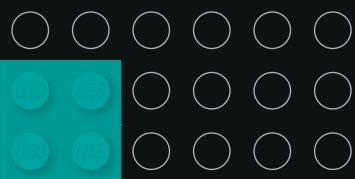


Invent

Invent: Design a kitchen to make food with the plants.

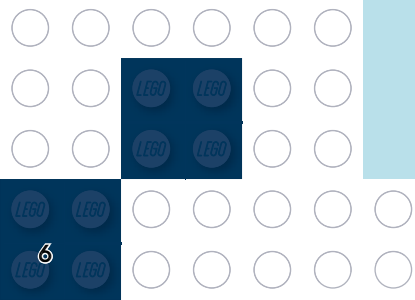
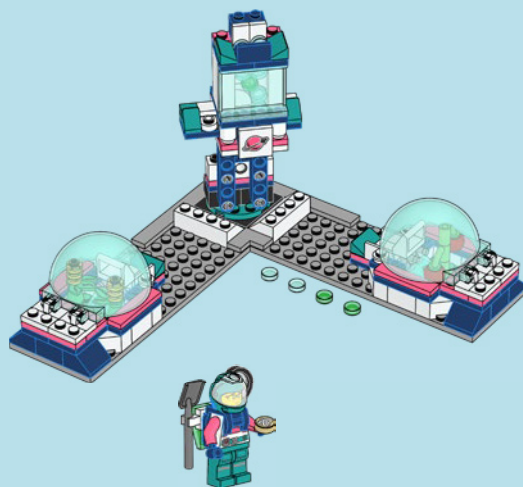
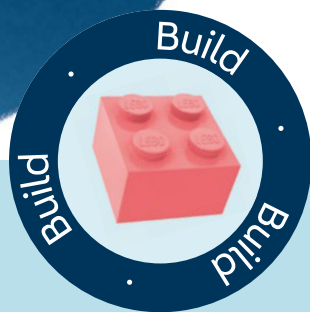
You can support learning and spark curiosity by asking questions such as:

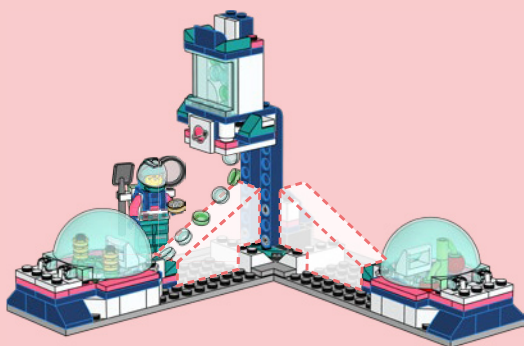
- How did you get the water and nutrients to the plants?
- What would an astronaut need to live on the Moon?
- Why do you think it is important to be able to grow plants on the Moon?

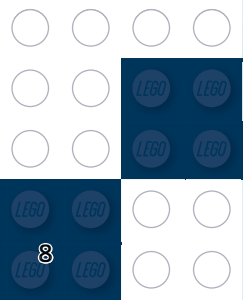
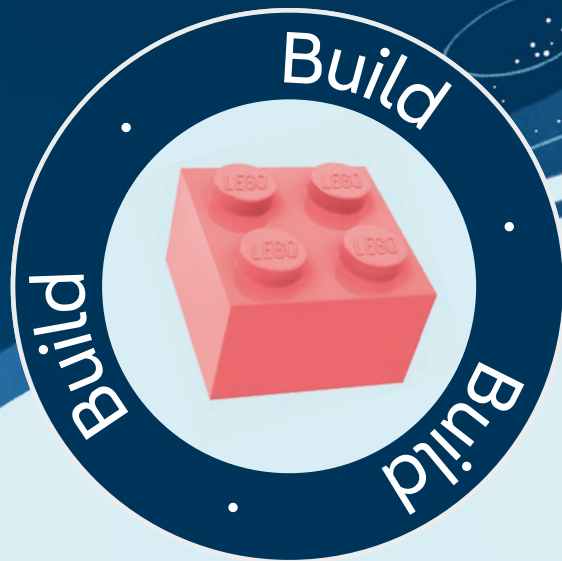


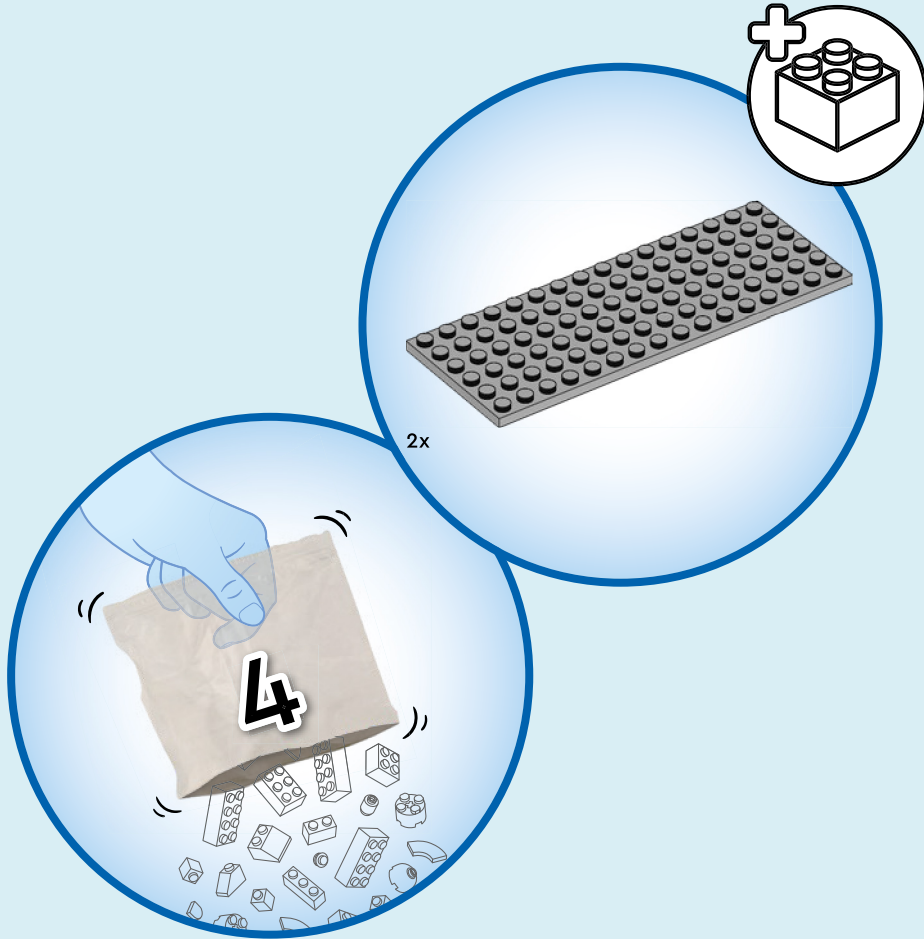


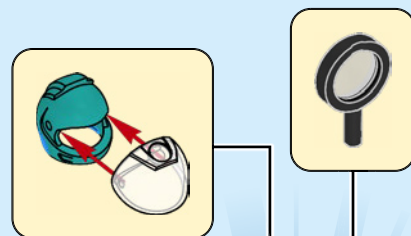
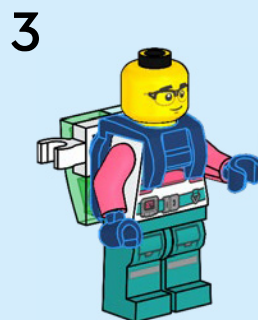
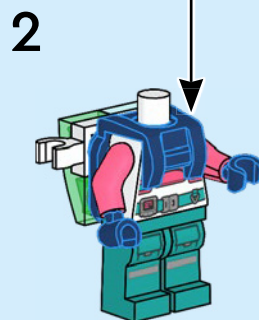
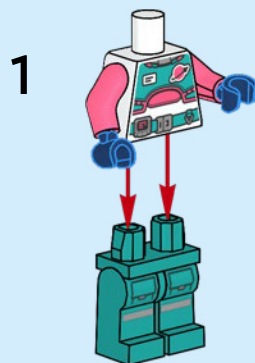
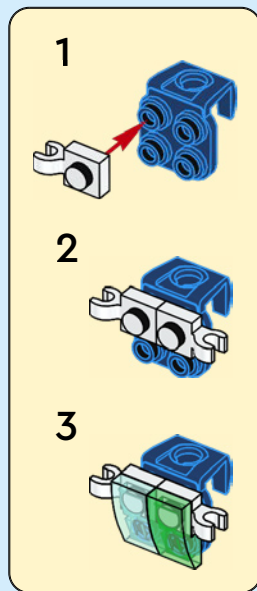


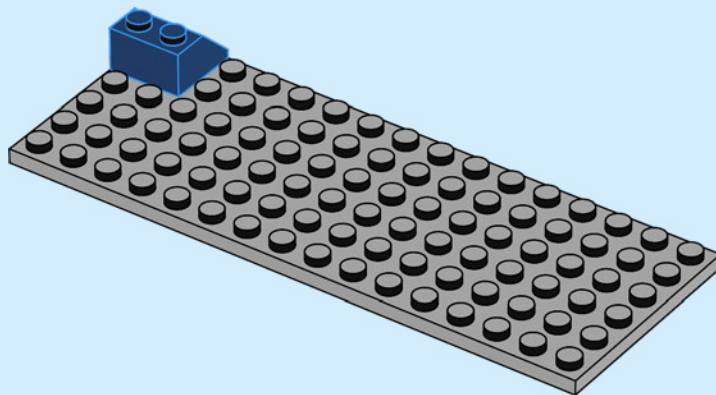
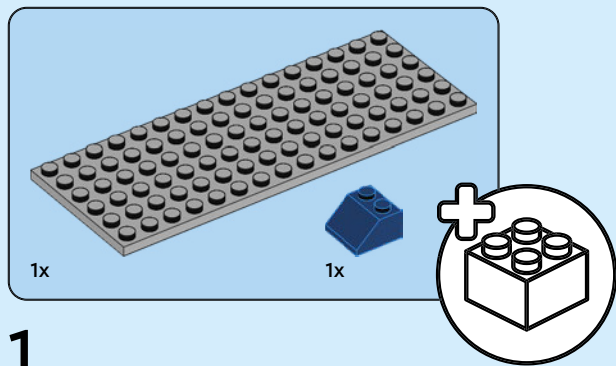


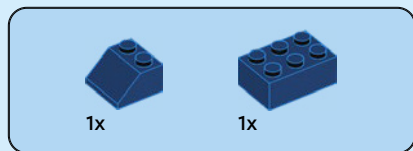




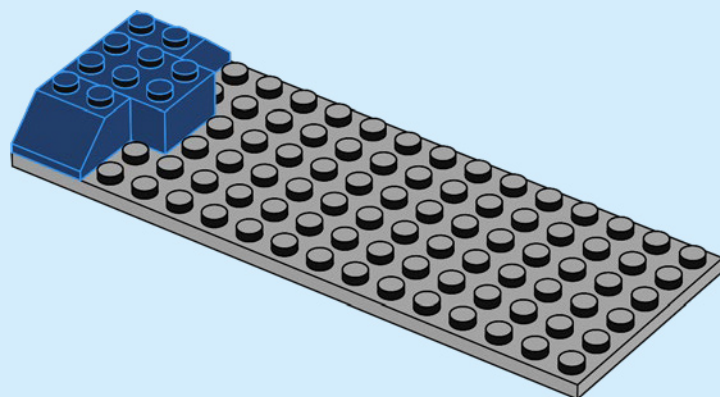


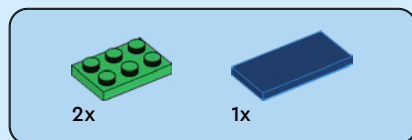




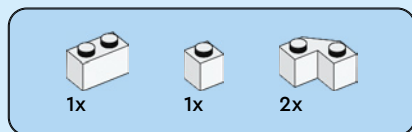
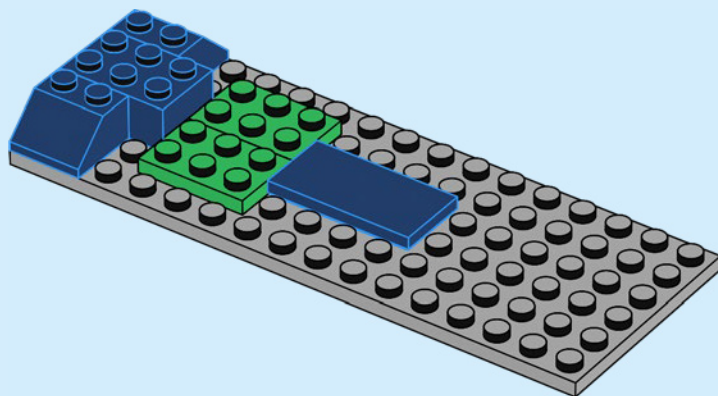


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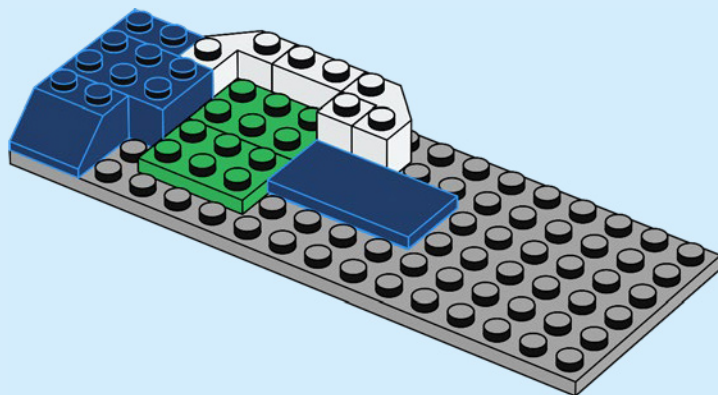




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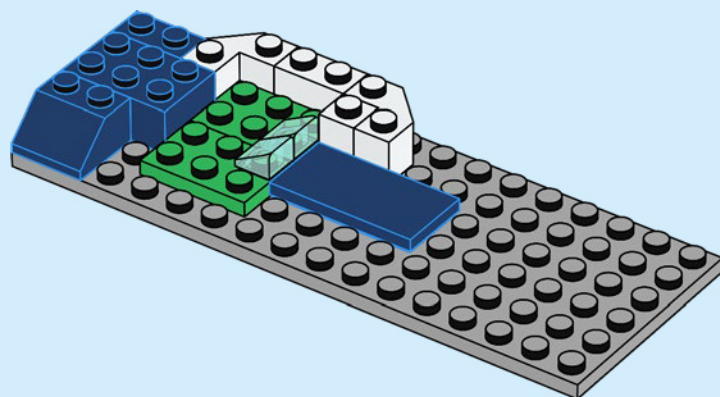
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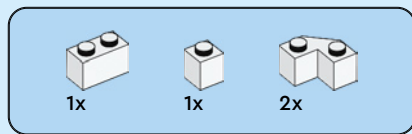




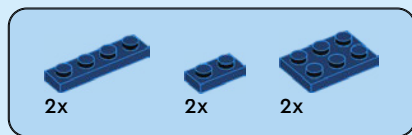
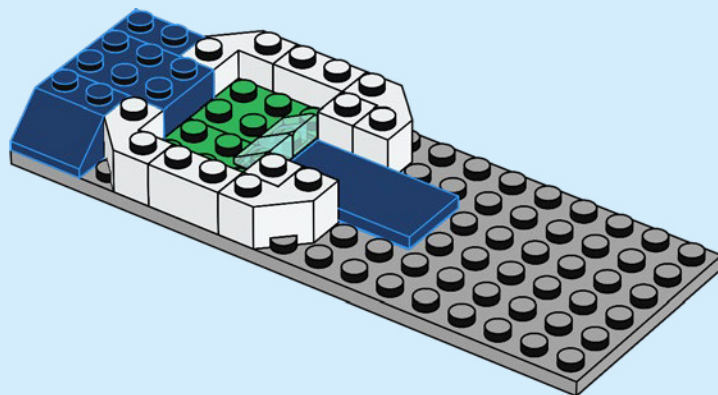
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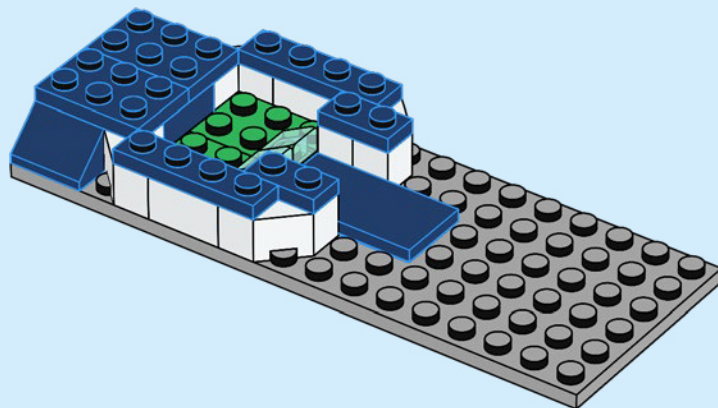


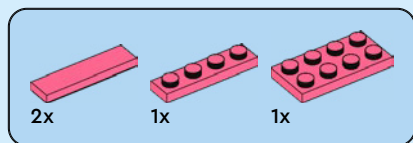


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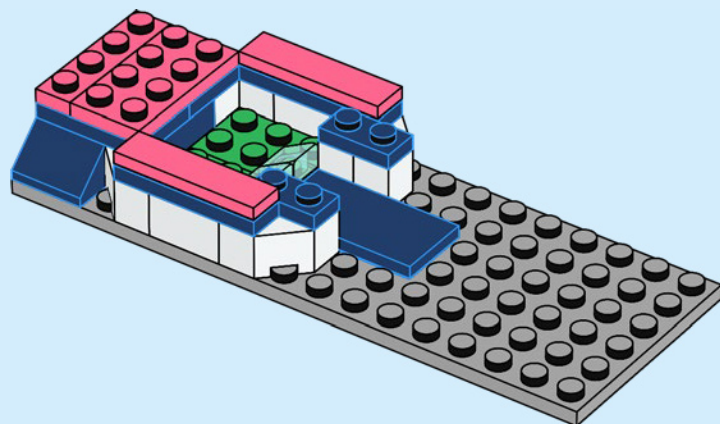


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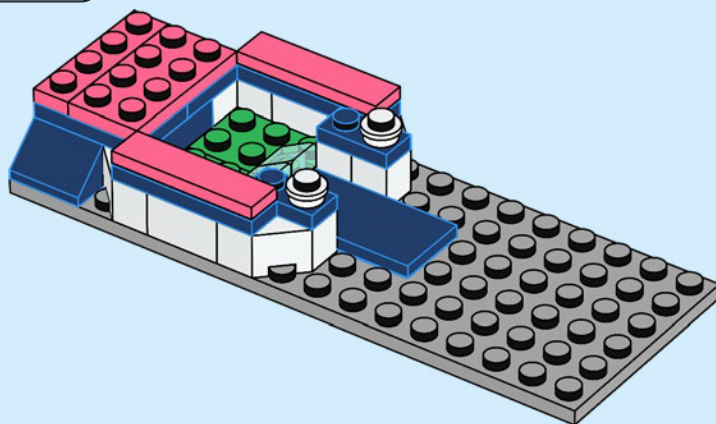


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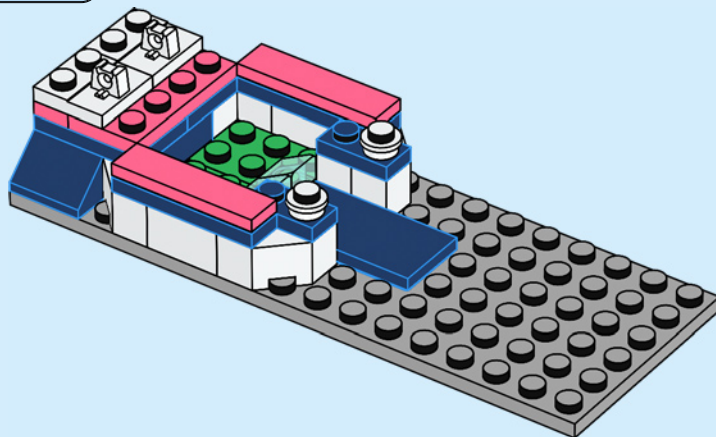
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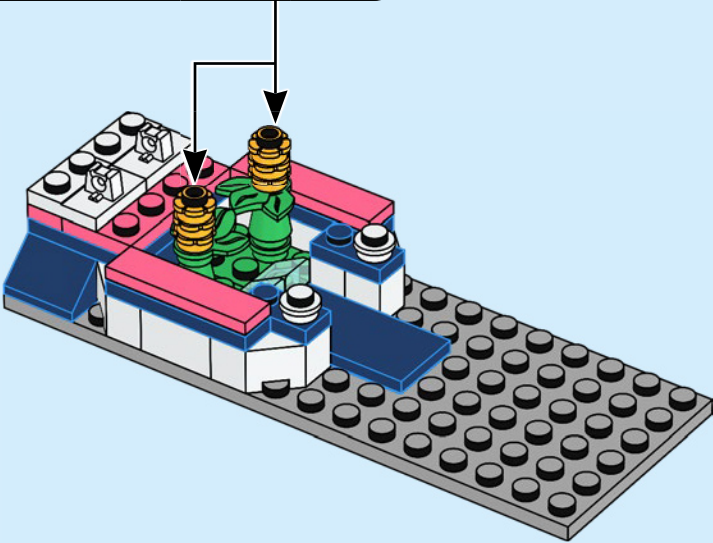
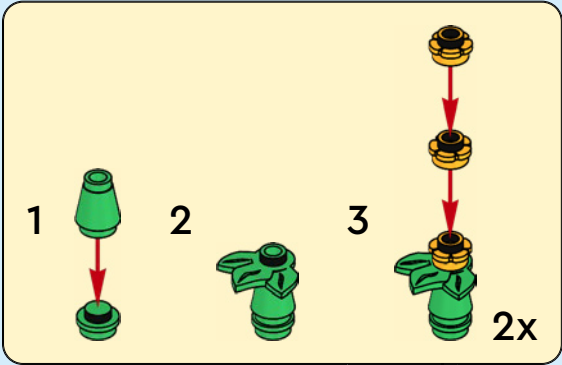
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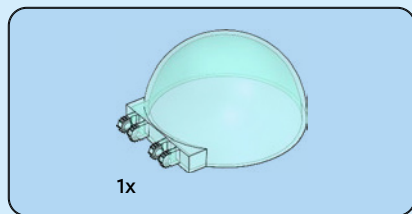
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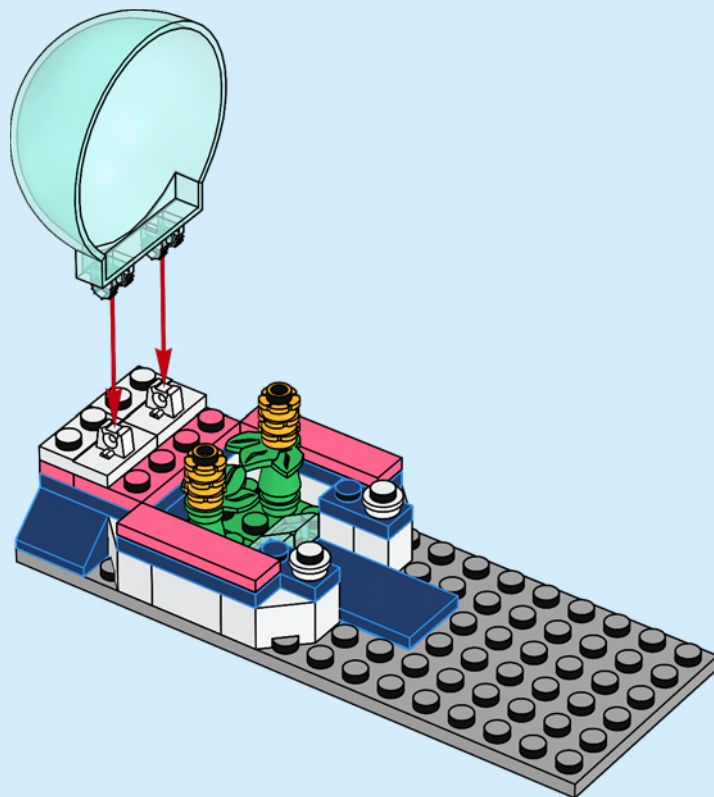
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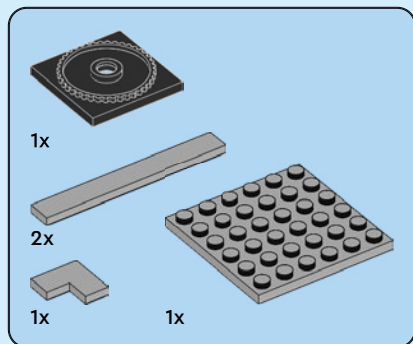
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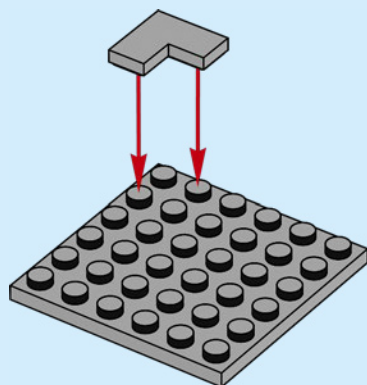
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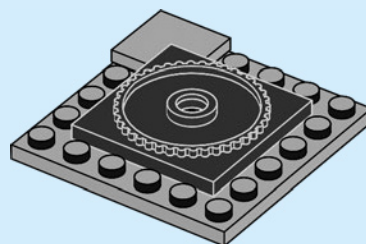


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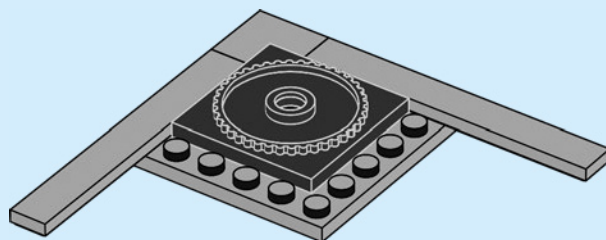
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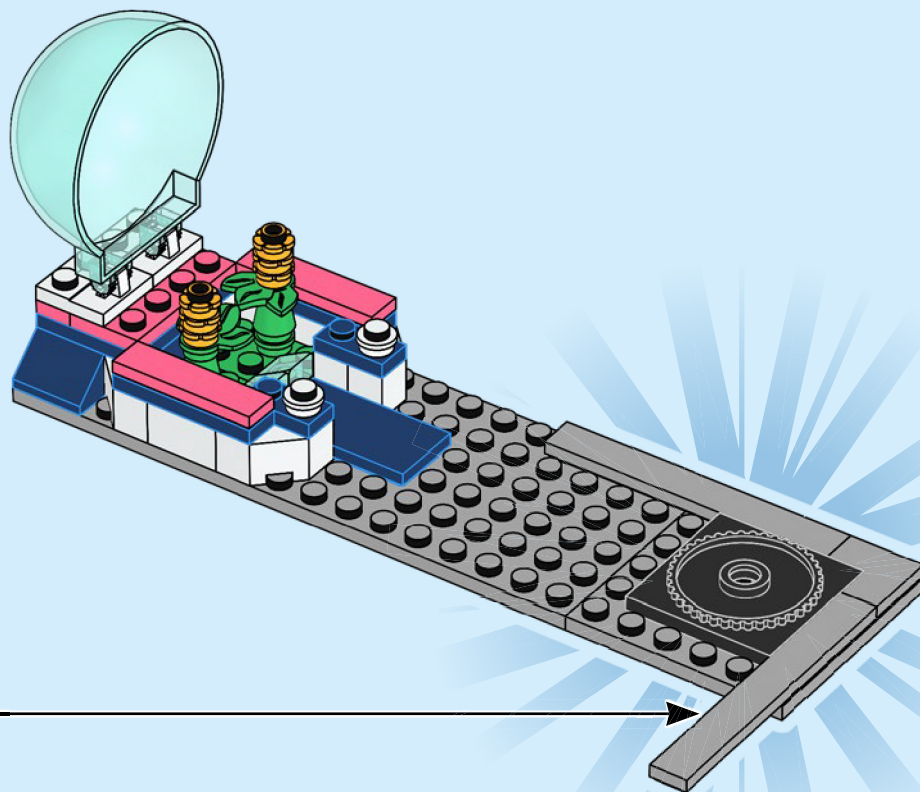


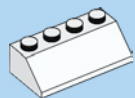
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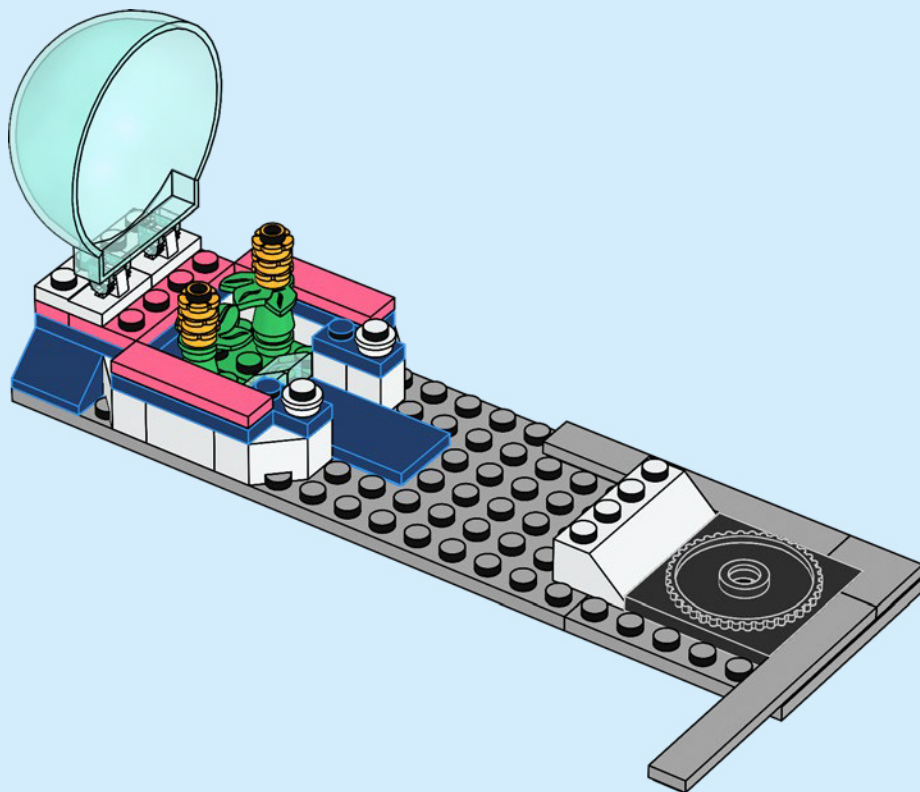


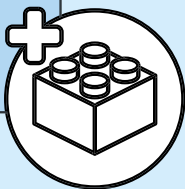
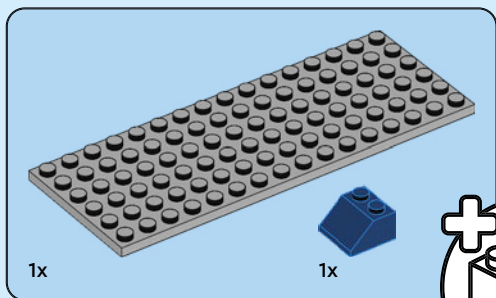
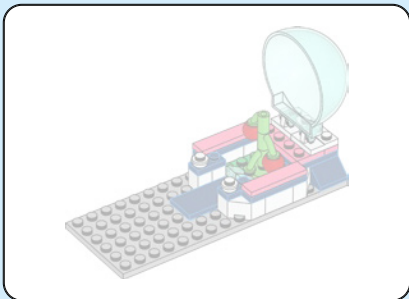




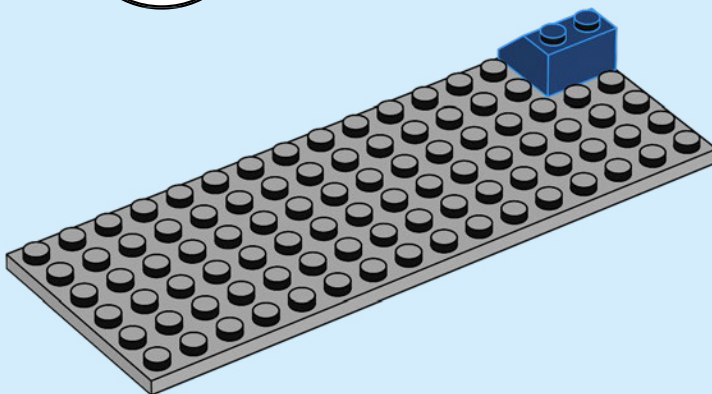
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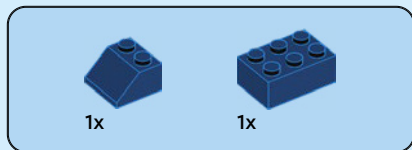
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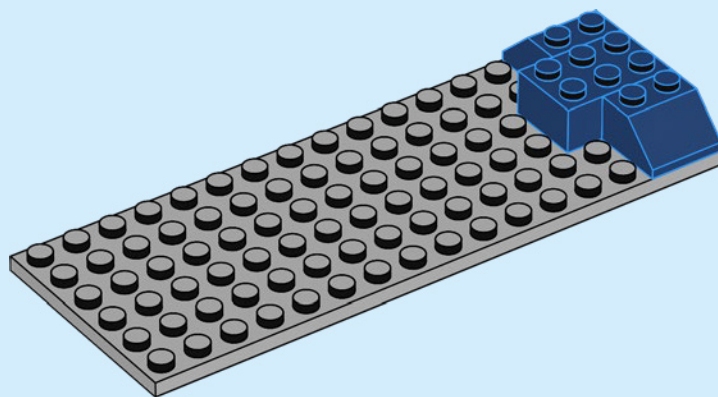


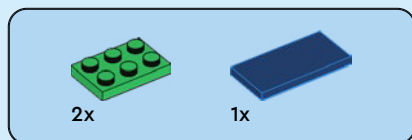
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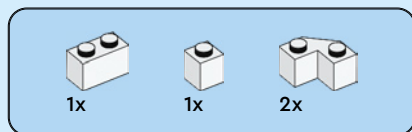
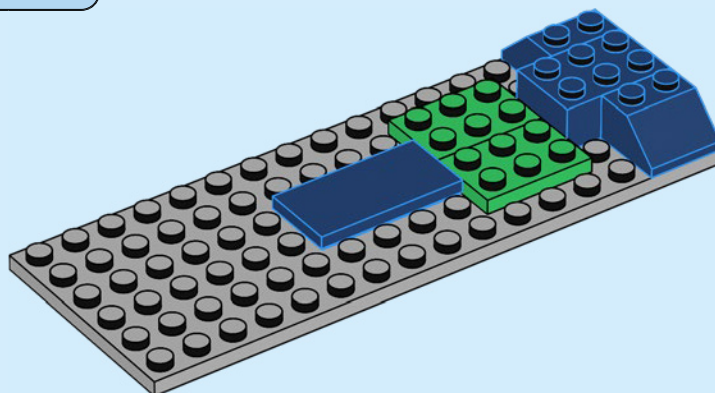


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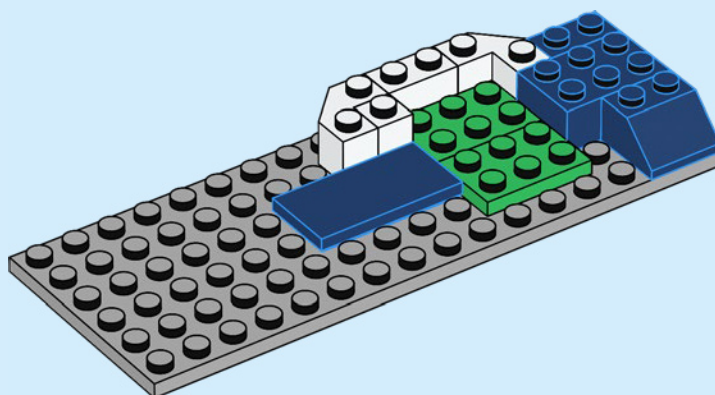




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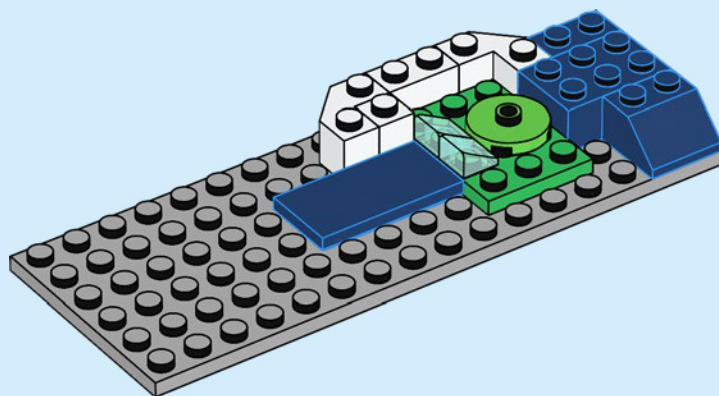


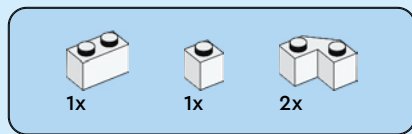
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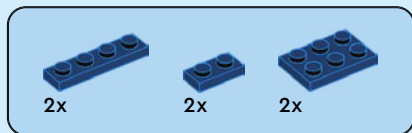
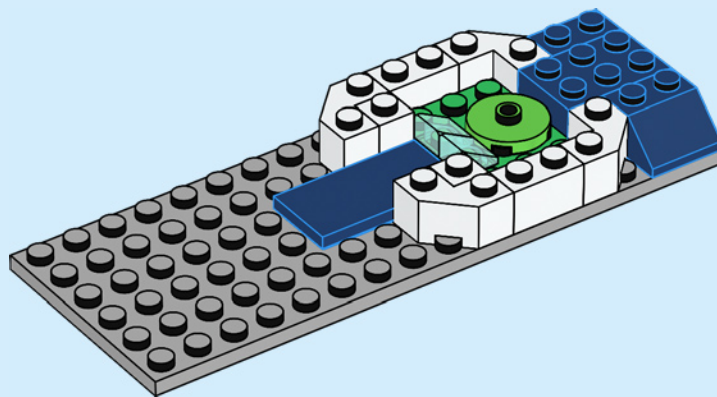
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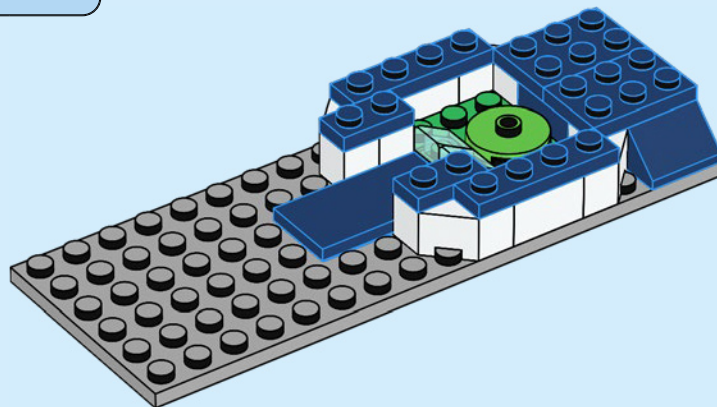


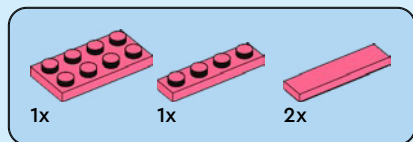


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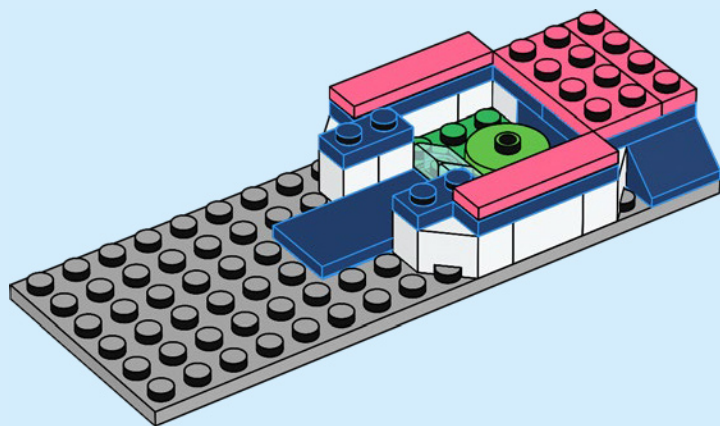


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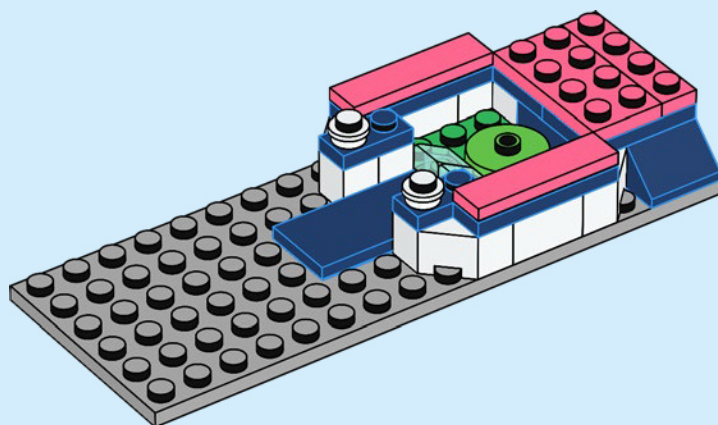


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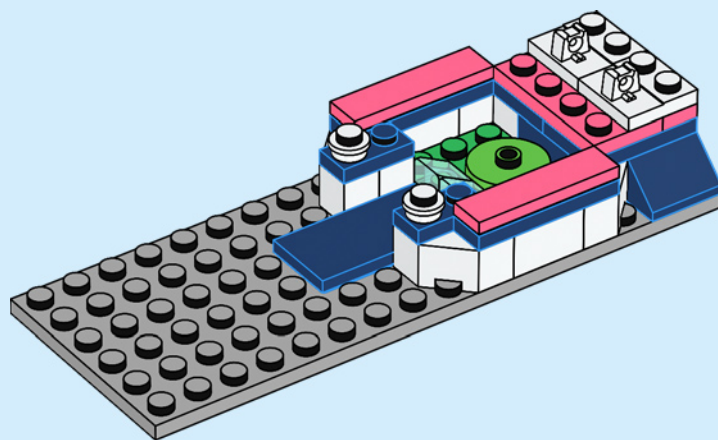
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24



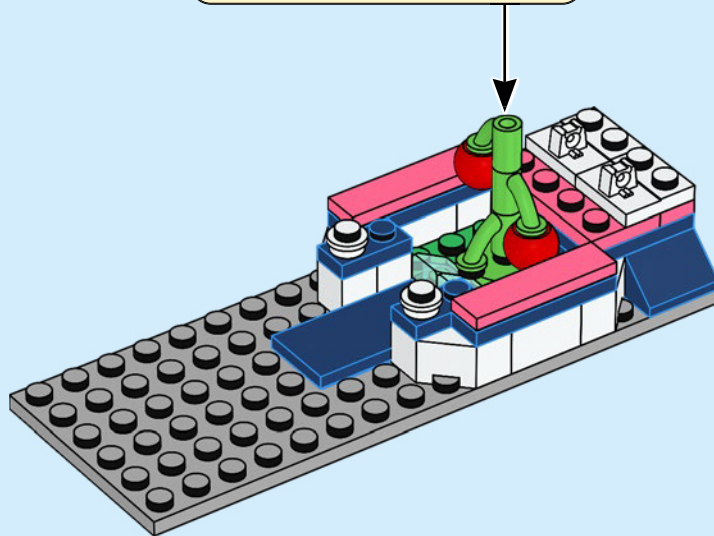
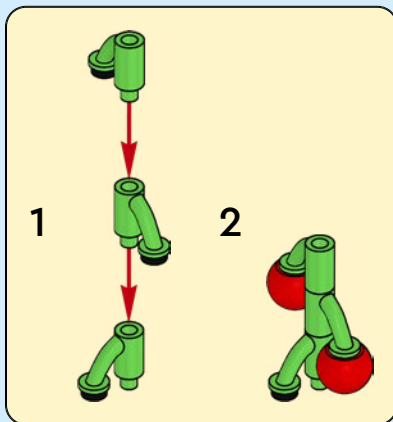


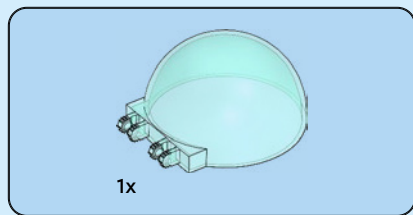
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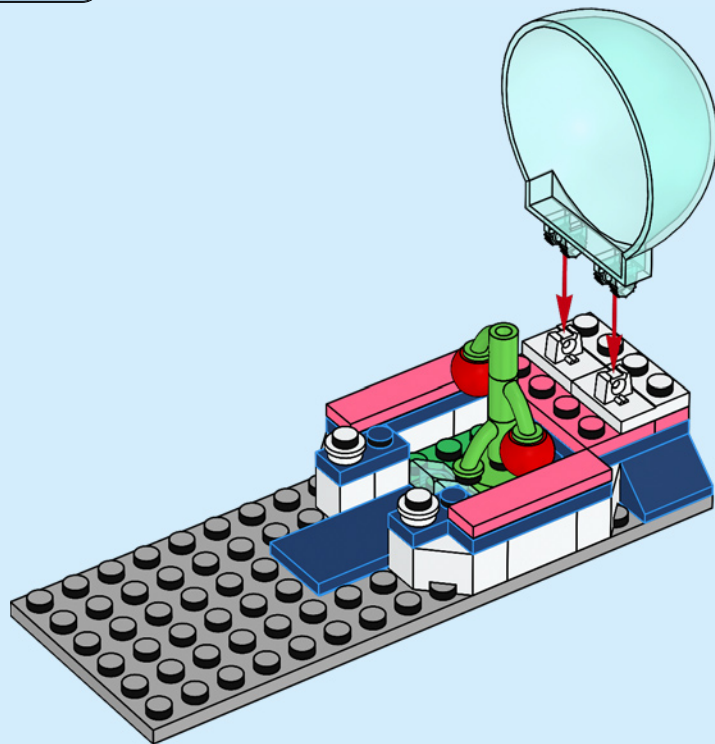
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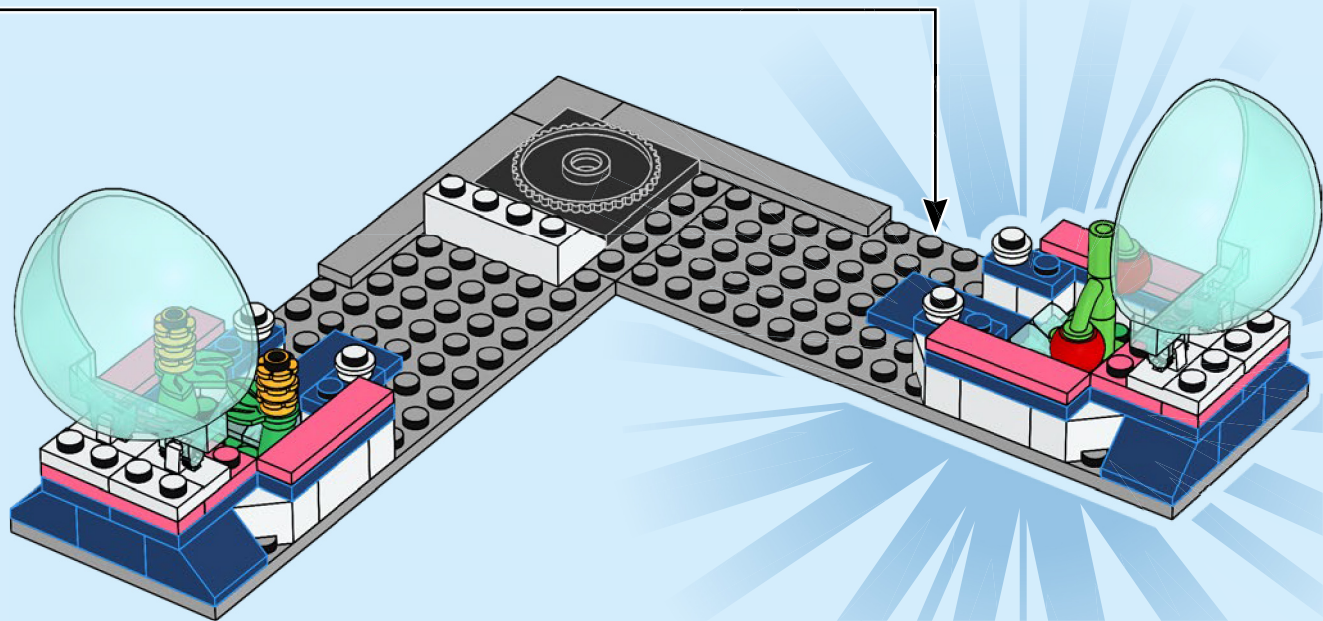


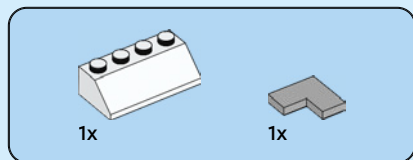


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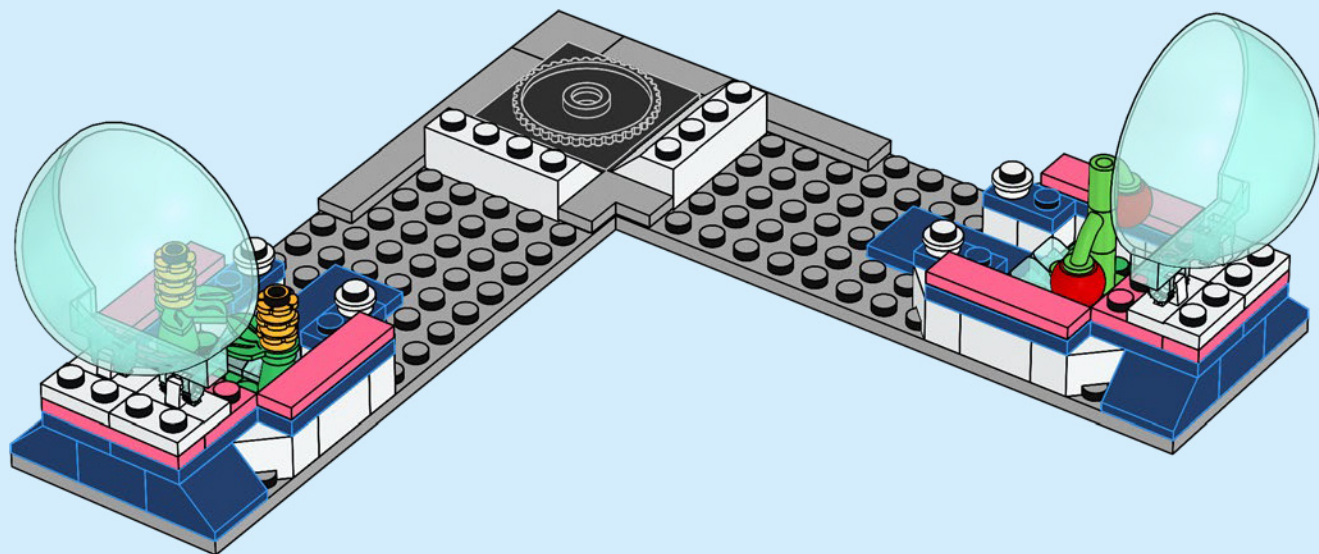


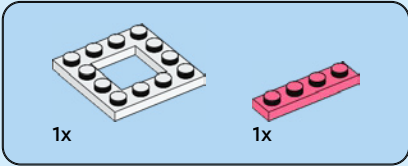
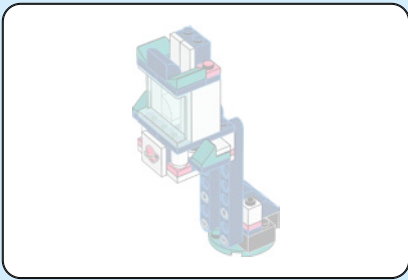
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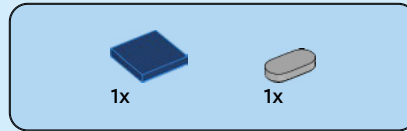
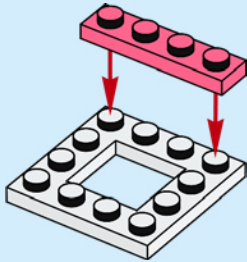


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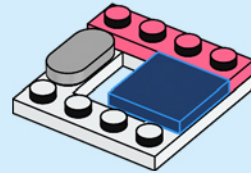


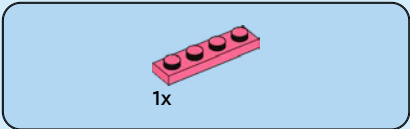


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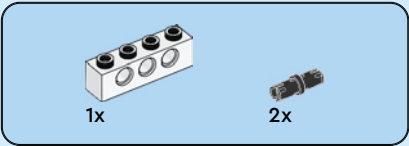
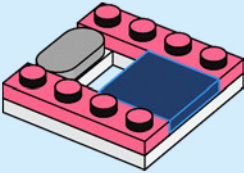


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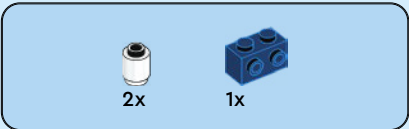
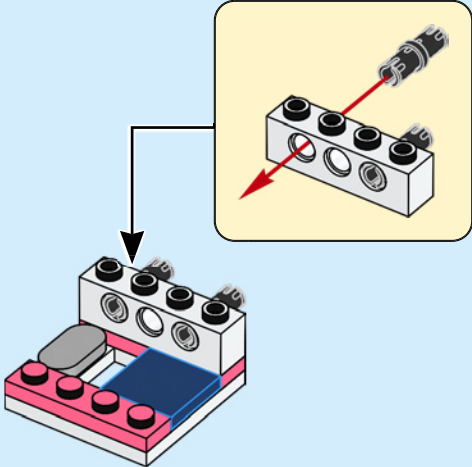




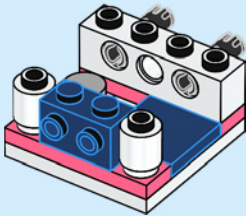
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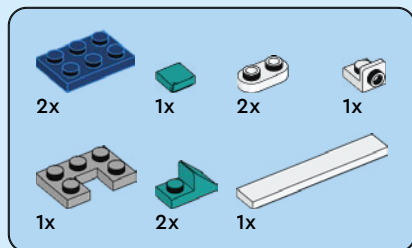


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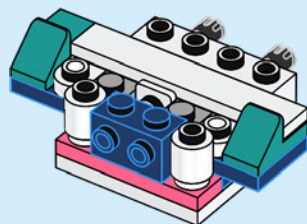
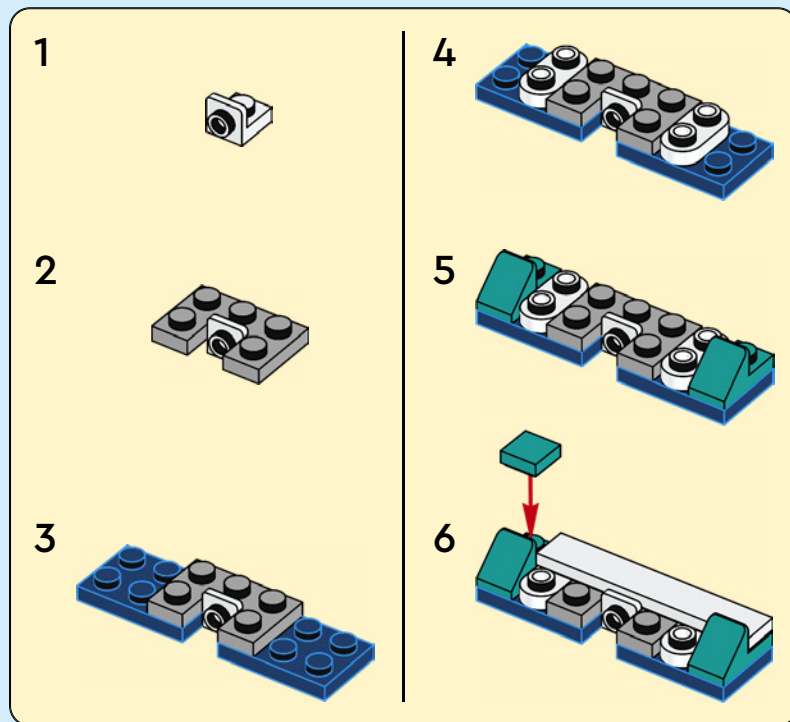


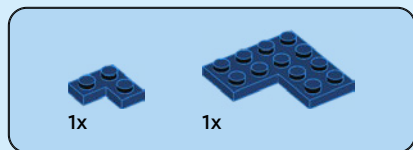
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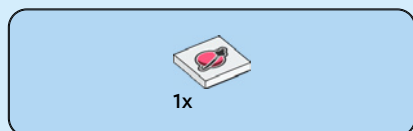
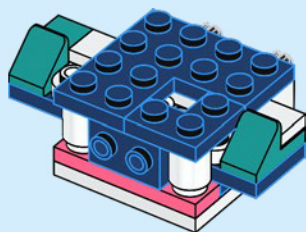


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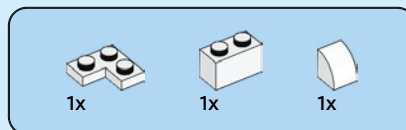
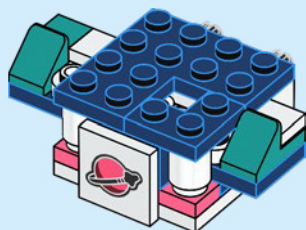




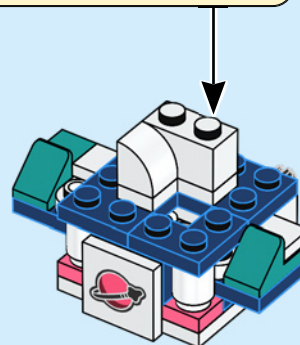
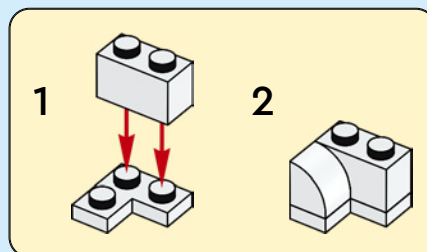
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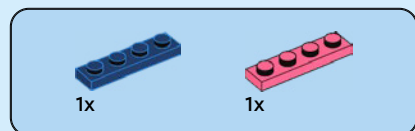
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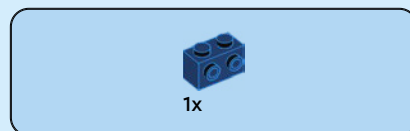
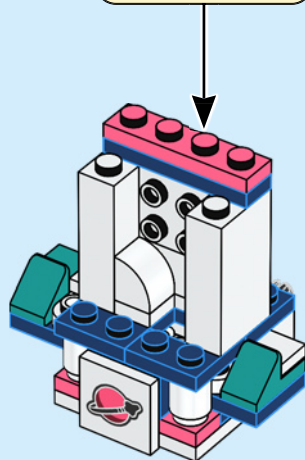
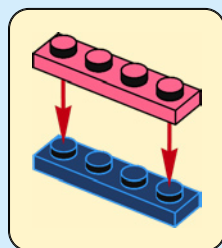
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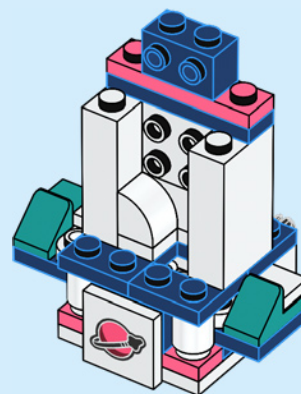


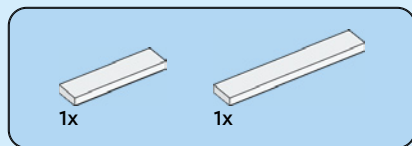


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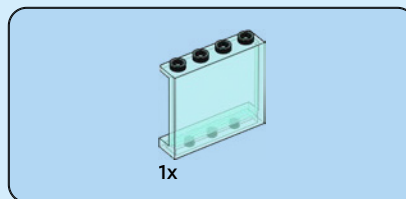
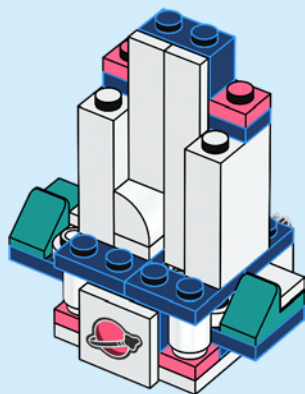


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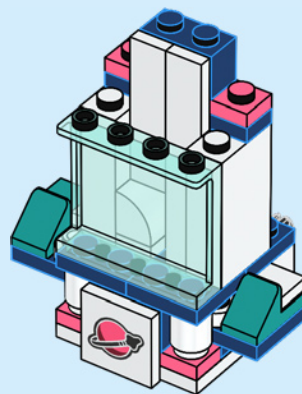




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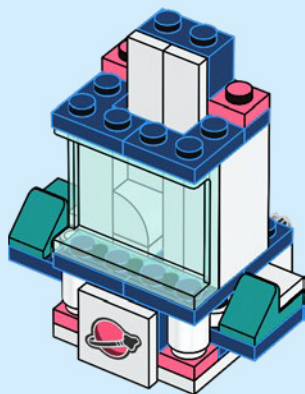
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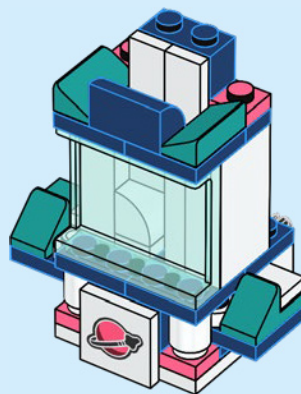


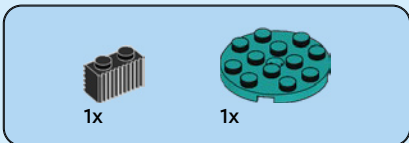
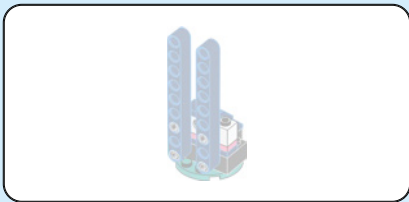
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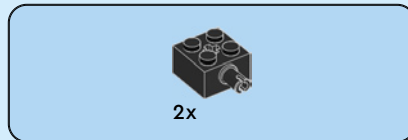
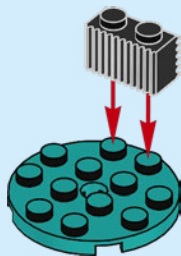
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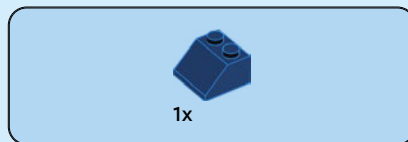
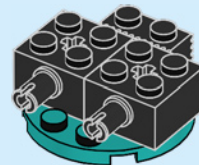




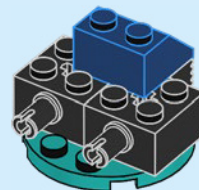
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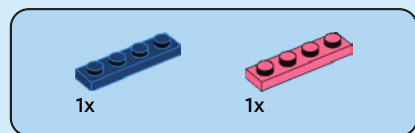


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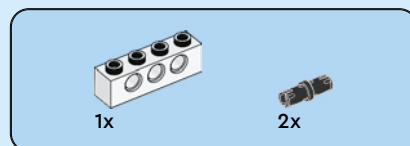
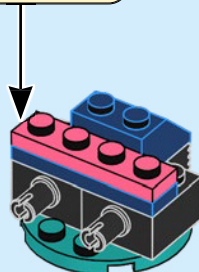
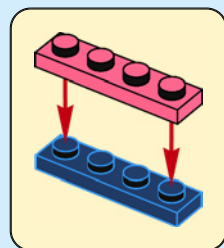


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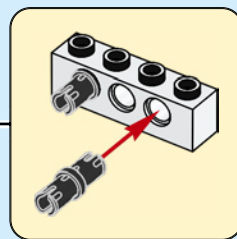
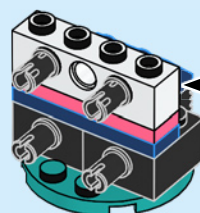




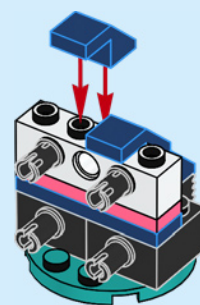
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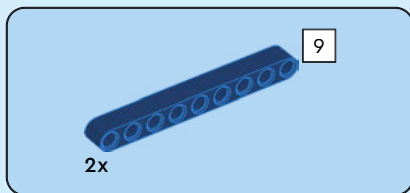


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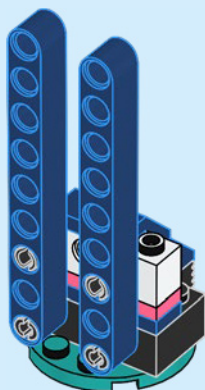


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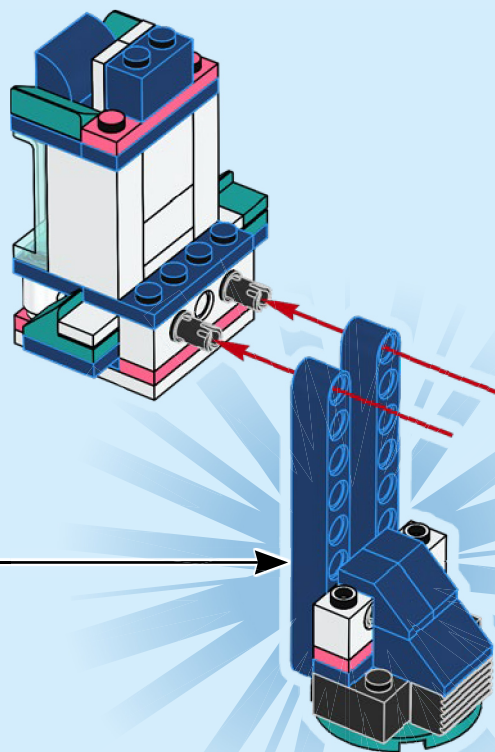
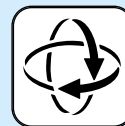




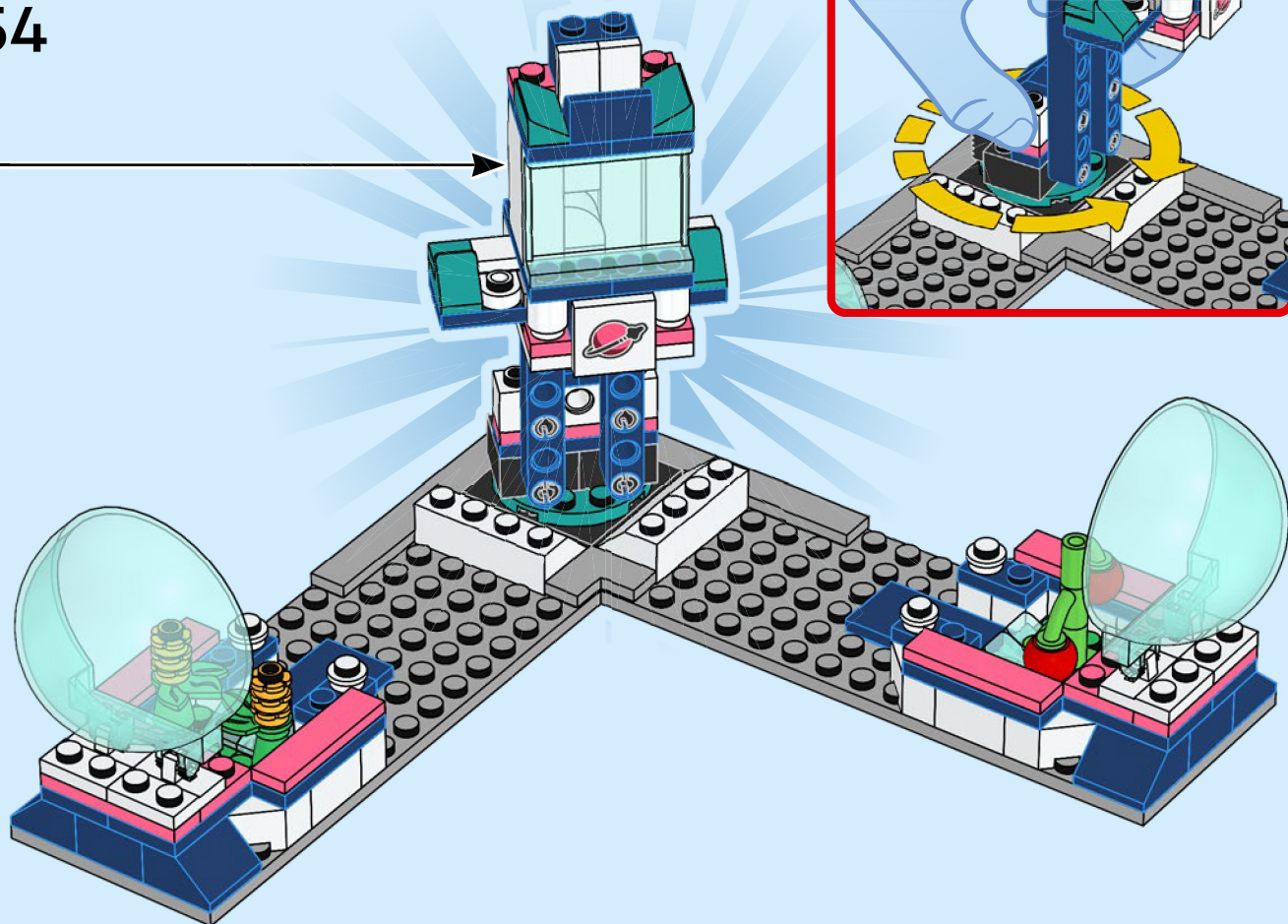
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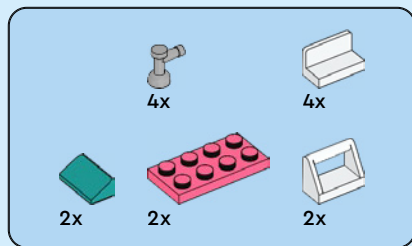


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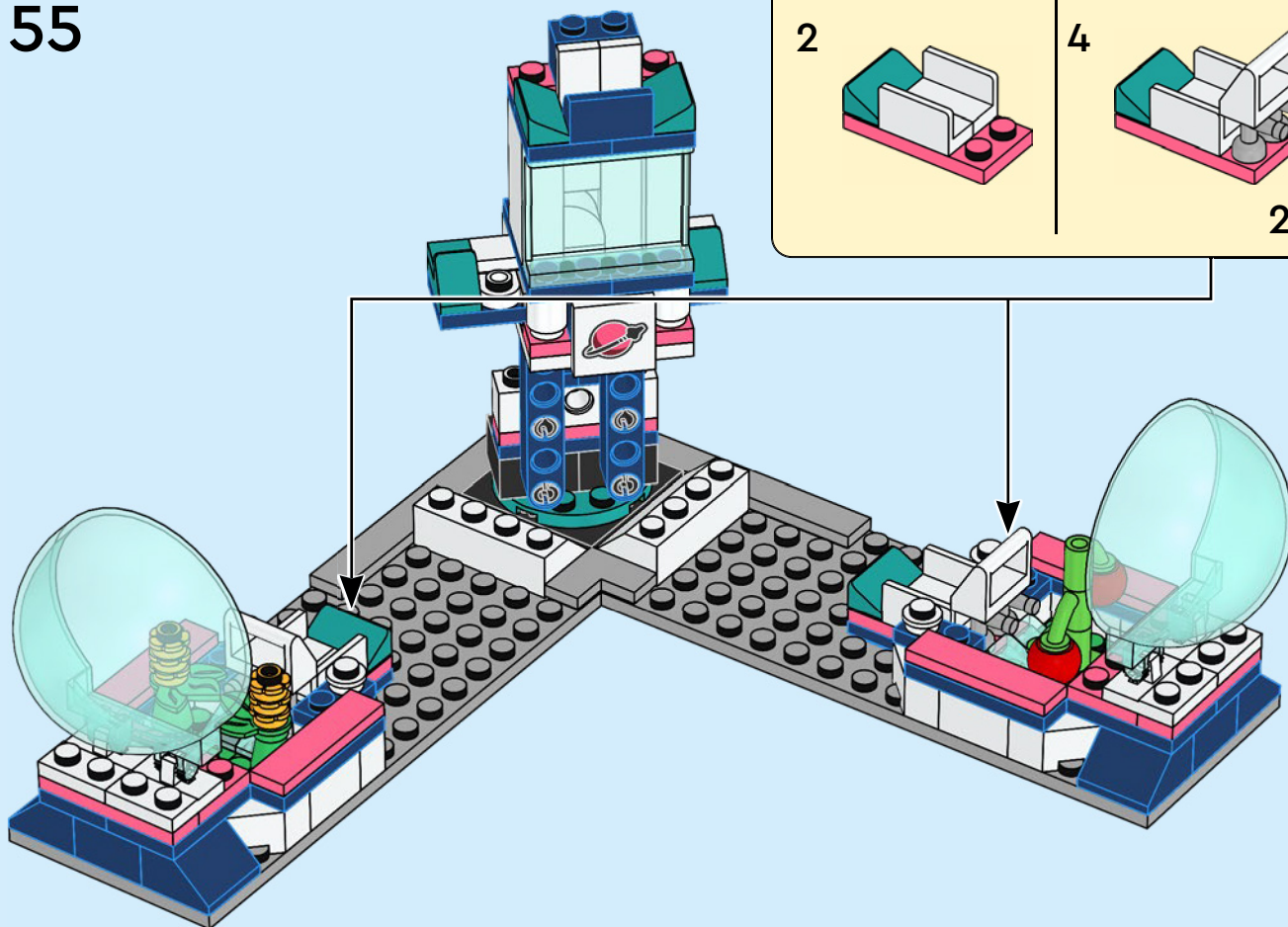
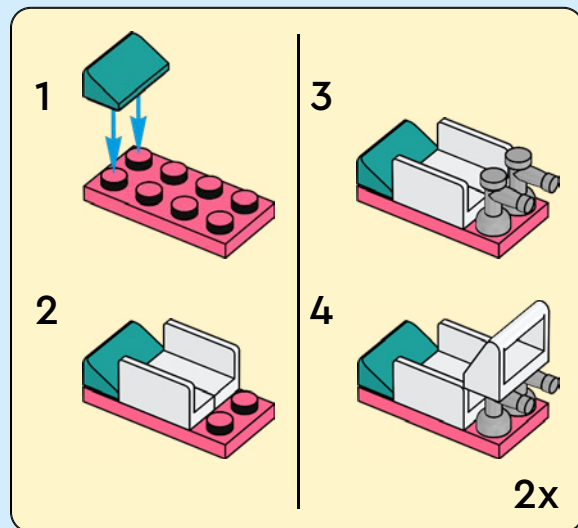


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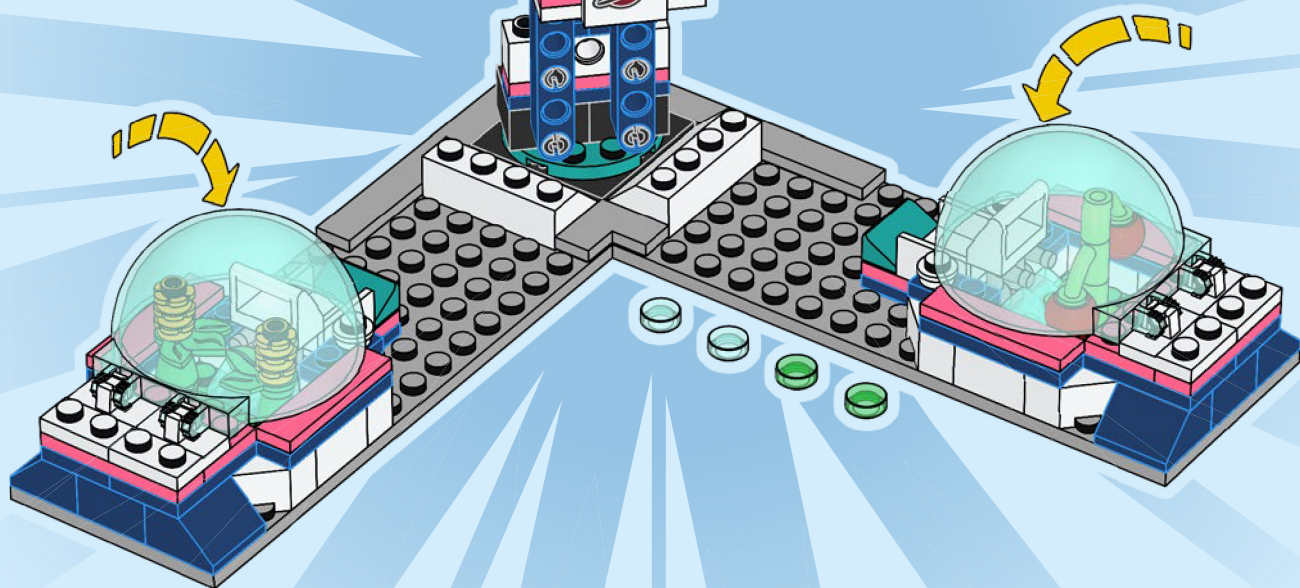
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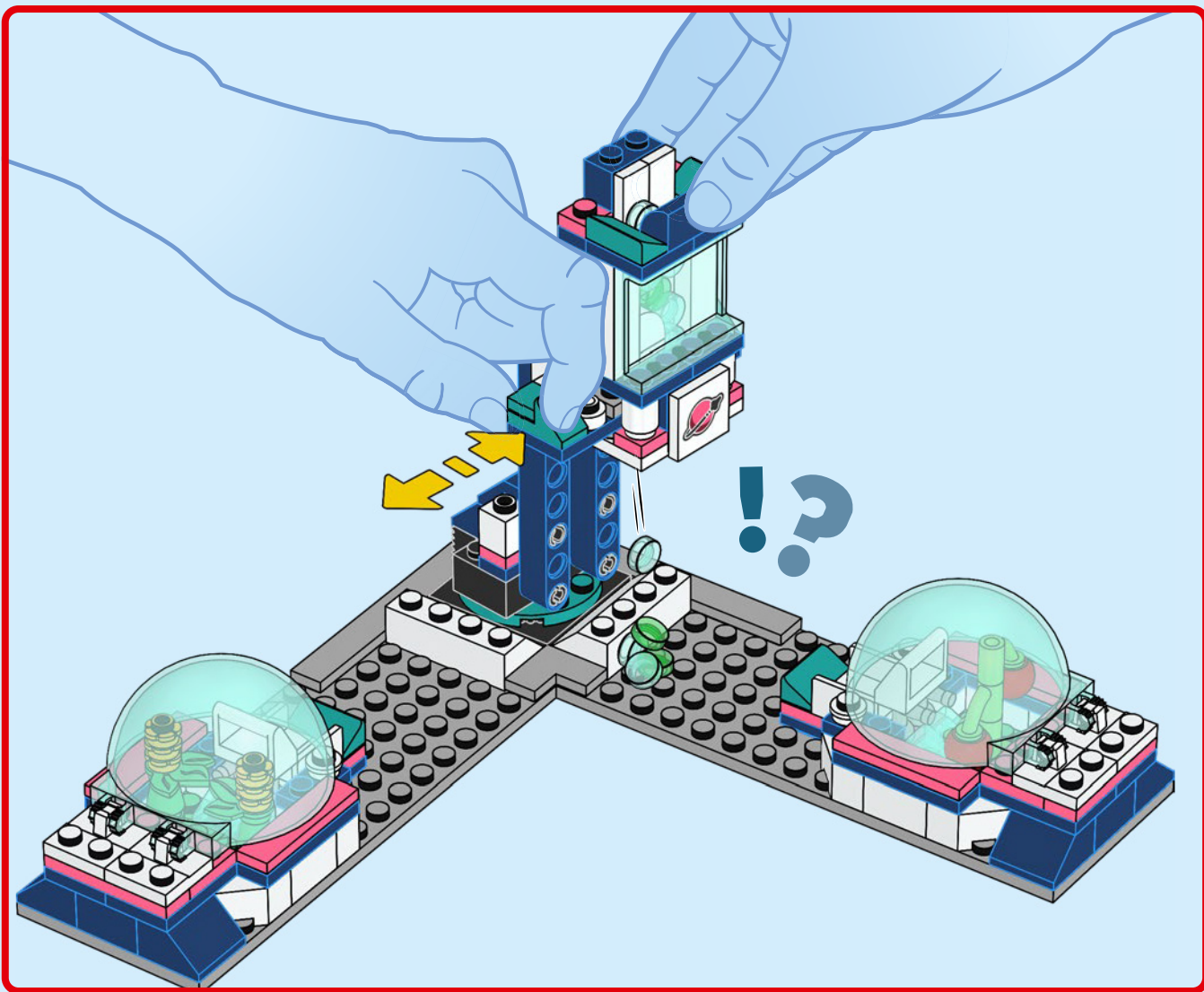


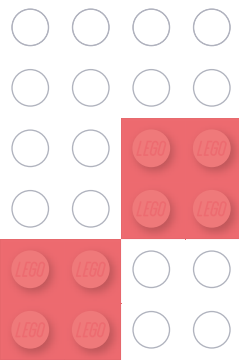
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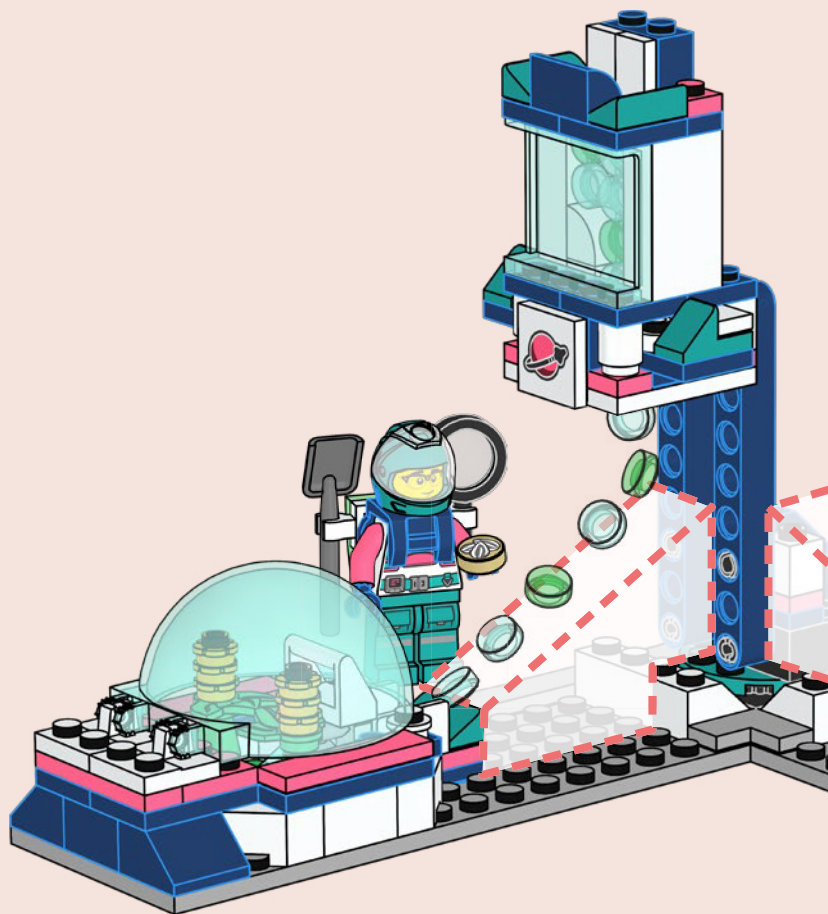


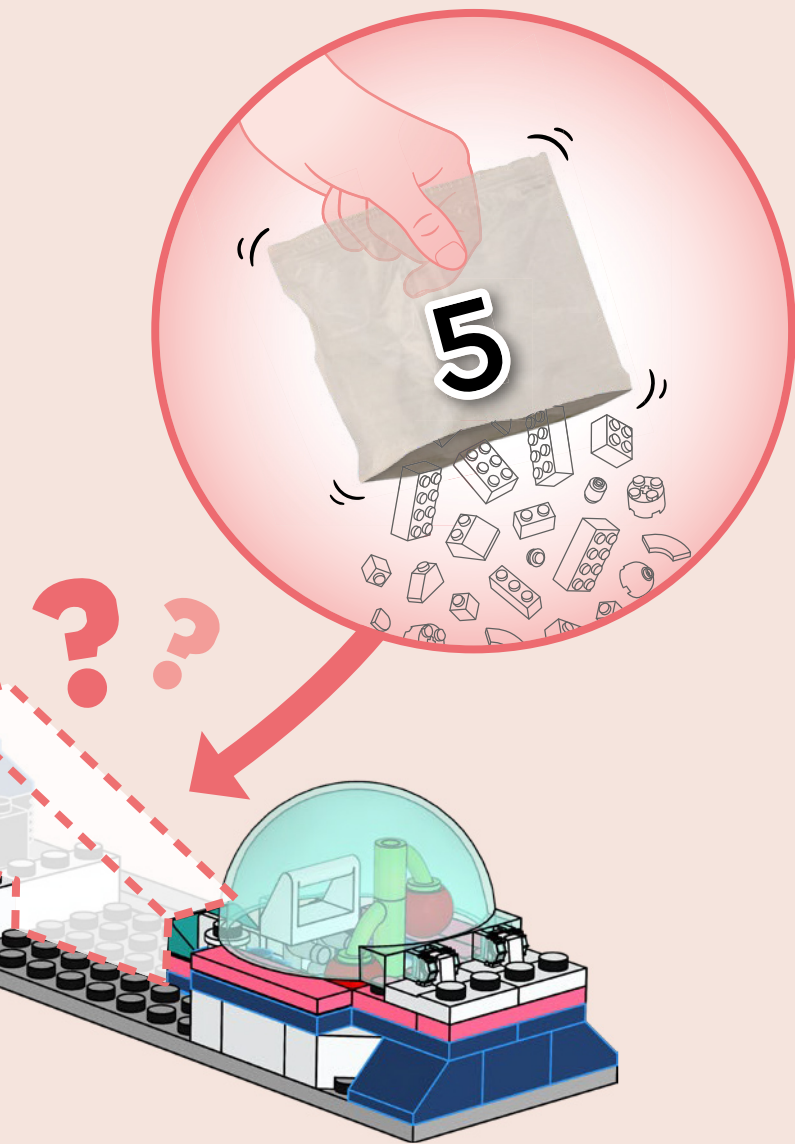


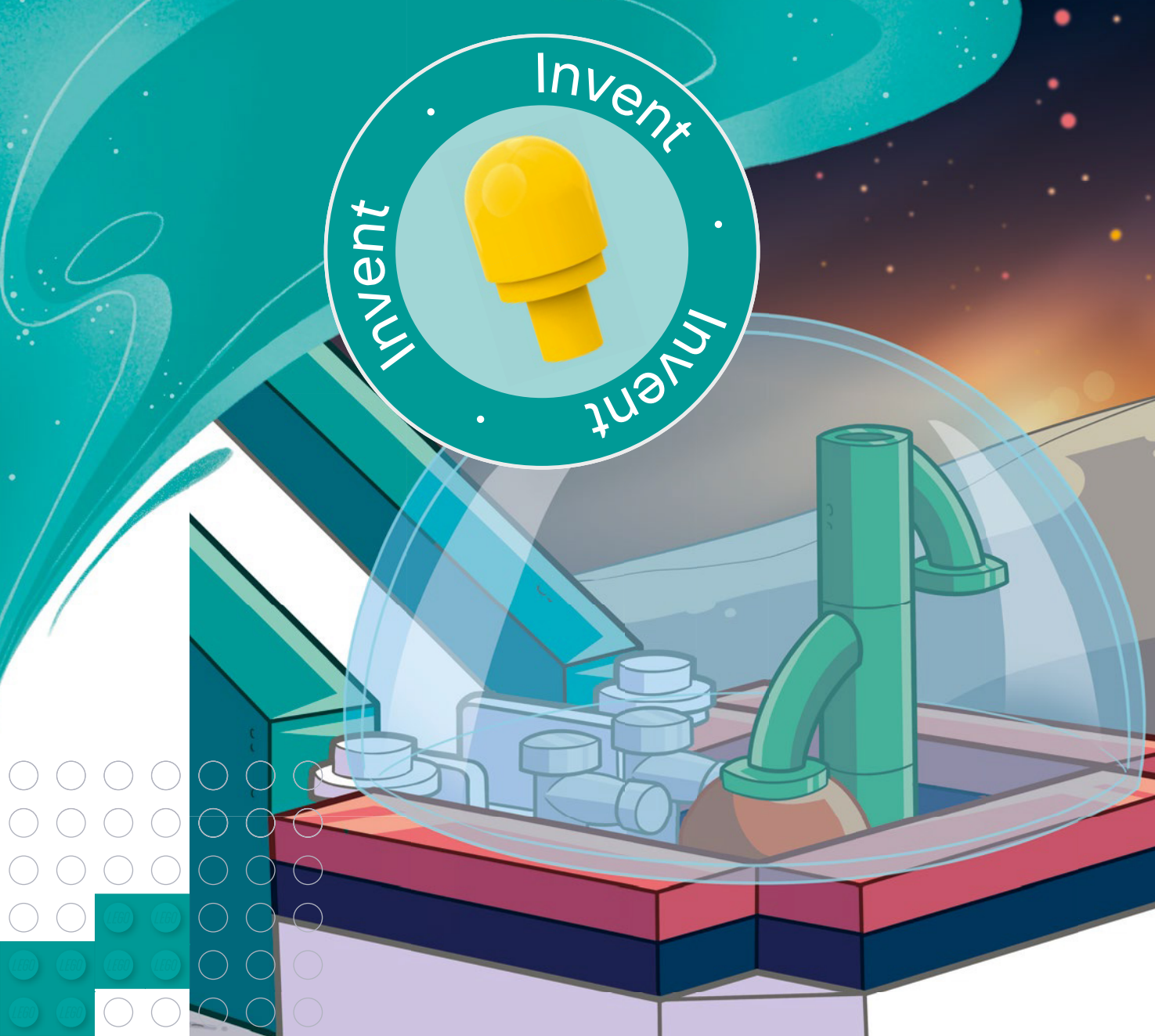




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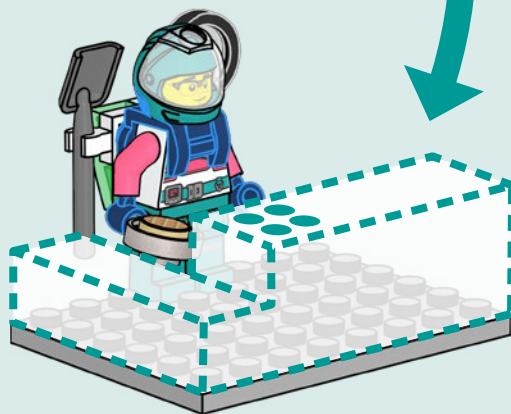


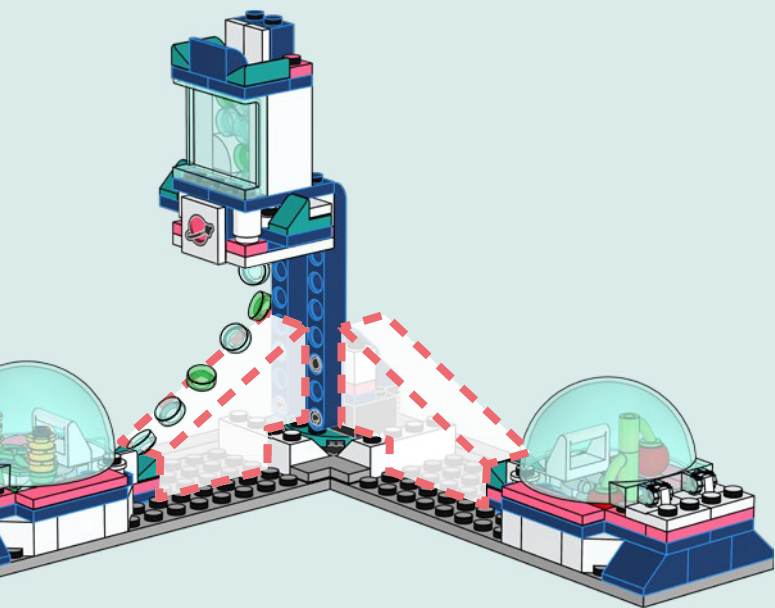


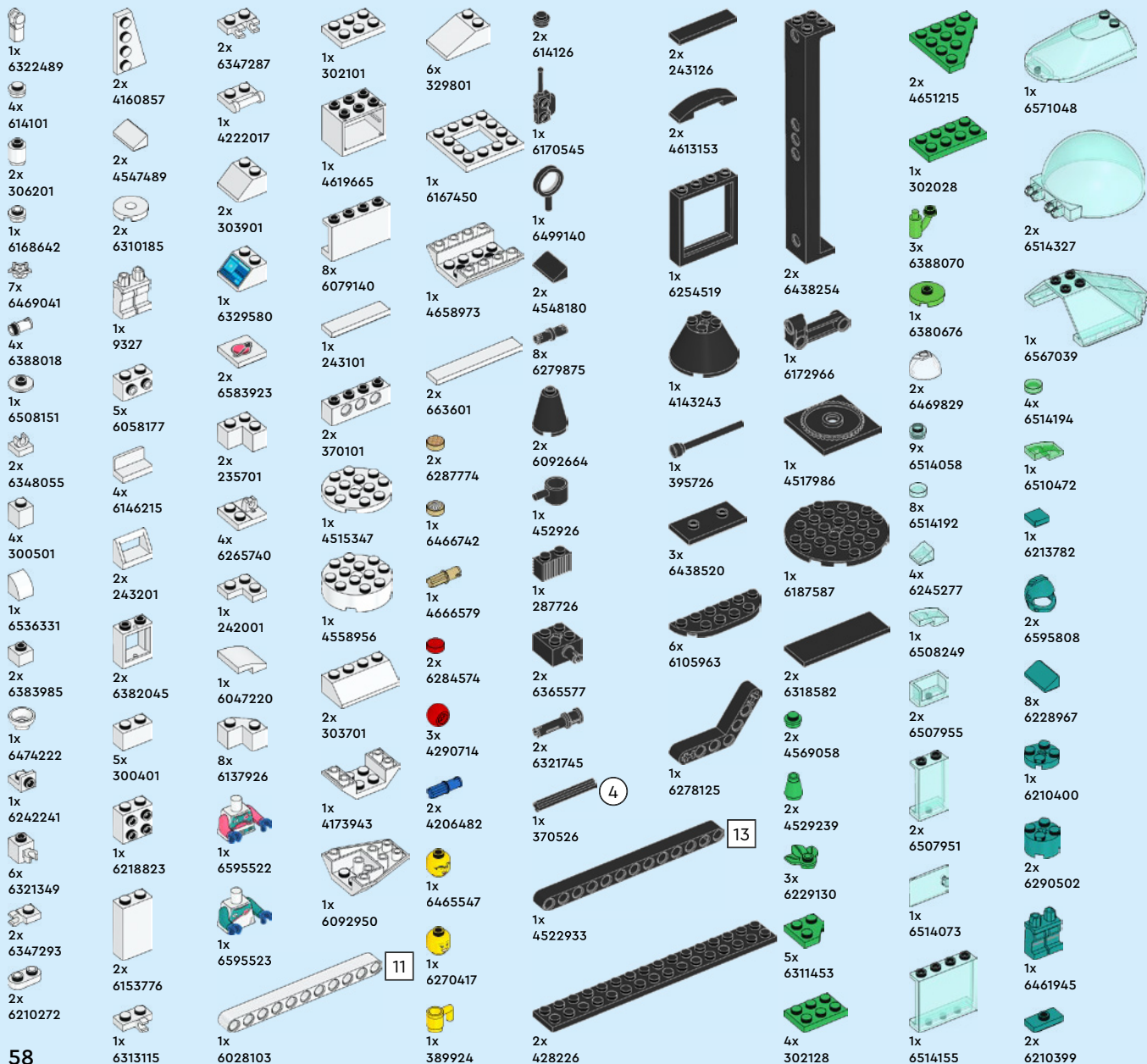


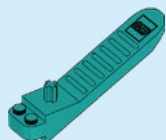


2









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2x
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3x
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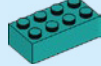
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2x
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6x
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8x
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1x
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6x
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7x
6258095



6x
6258570



9x
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1x
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1x
6361354



1x
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1x
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2x
6166857



8x
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4x
4528981



2x
6135606



1x
6384915



4x
6429965



1x
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2x
4296785



7x
4153653



3x
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1x
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1x
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2x
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2x
6489004



2x
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2x
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2x
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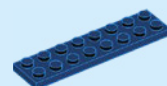
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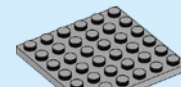
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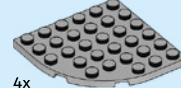
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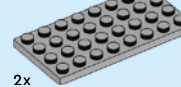
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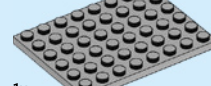
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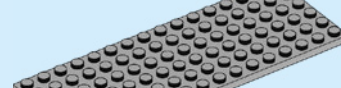
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1x
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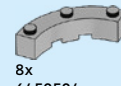
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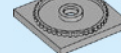
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2x
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1x
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6x
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1x
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3x
4211807



1x
6092956



8x
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4x
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1x
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1x
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1x
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1x
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8x
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1x
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1x
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2x
4211111



2x
4211063



4x
4211109



4x
6265306



1x
6267165



1x
4211006



4x
4222042



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