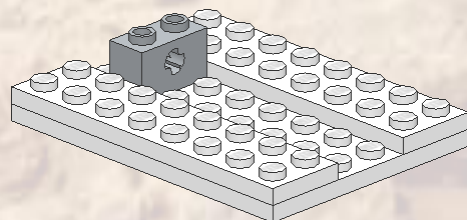
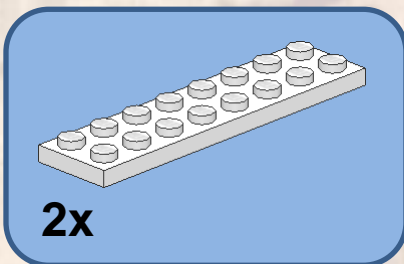
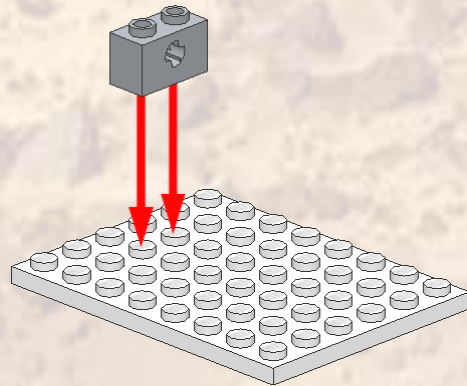
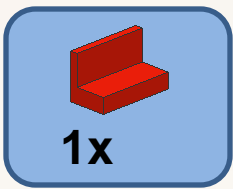


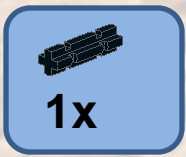
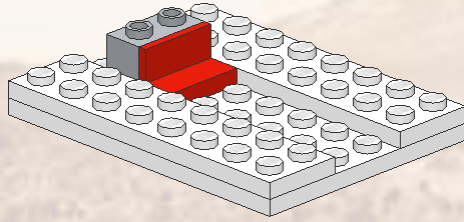
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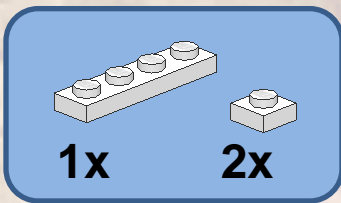
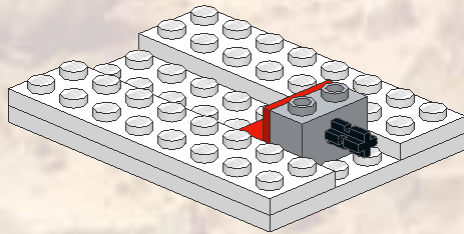
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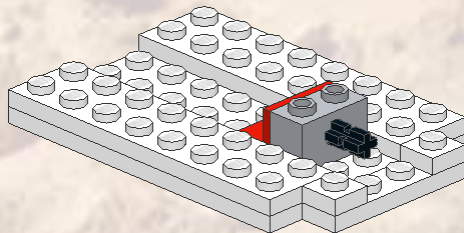
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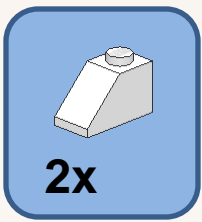


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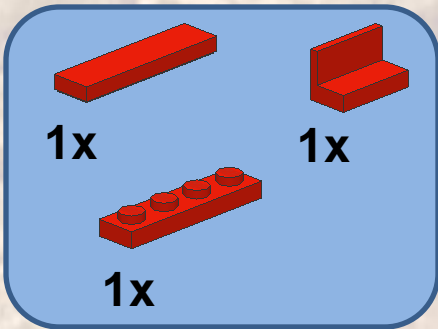
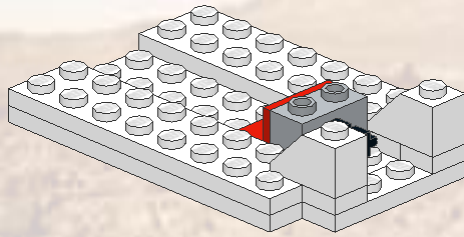


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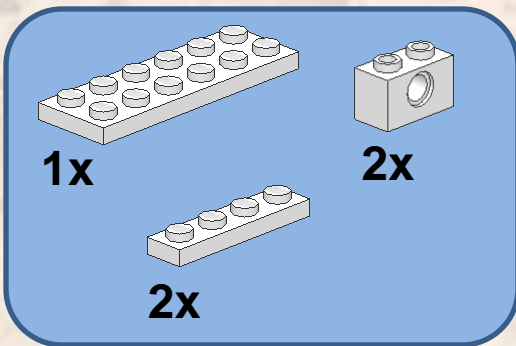
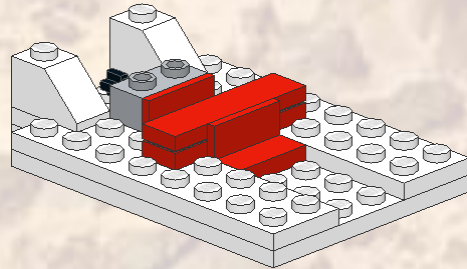




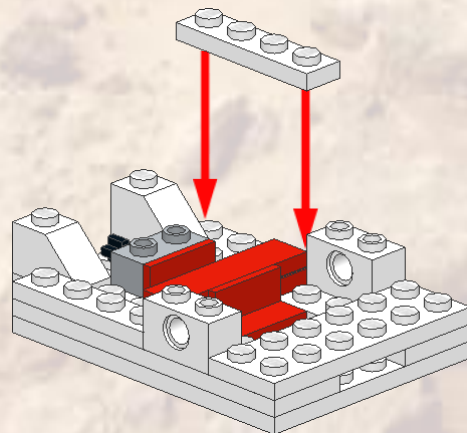
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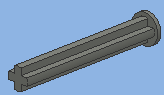


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8



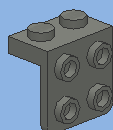
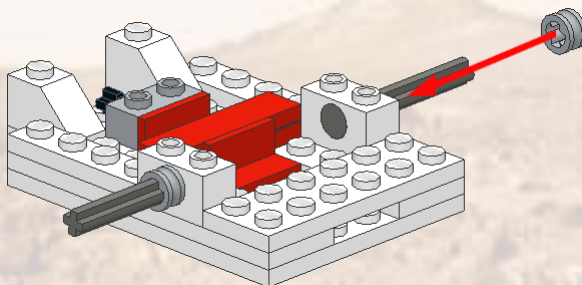


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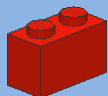


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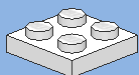
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1x



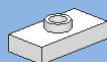
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2x



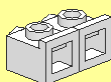
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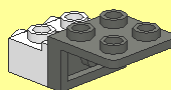
2x

10

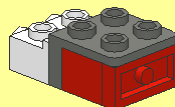
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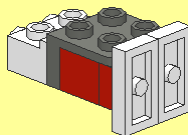
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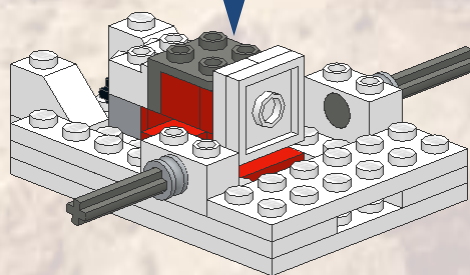
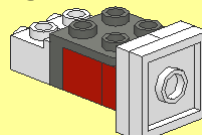
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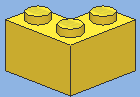


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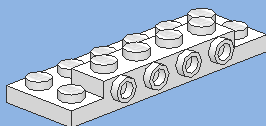
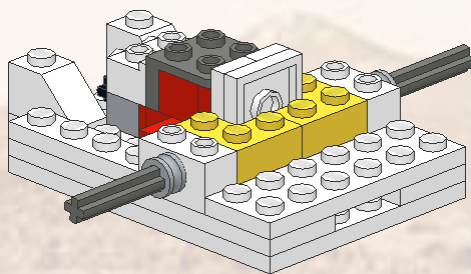
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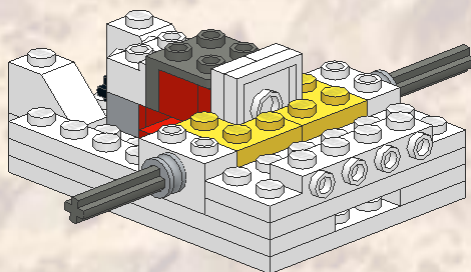
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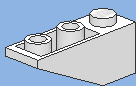


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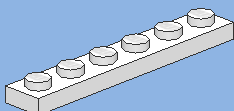
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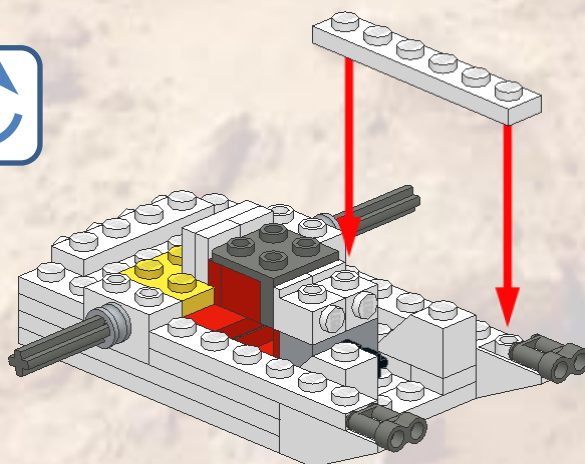


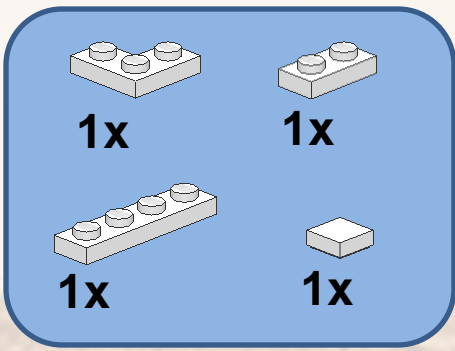
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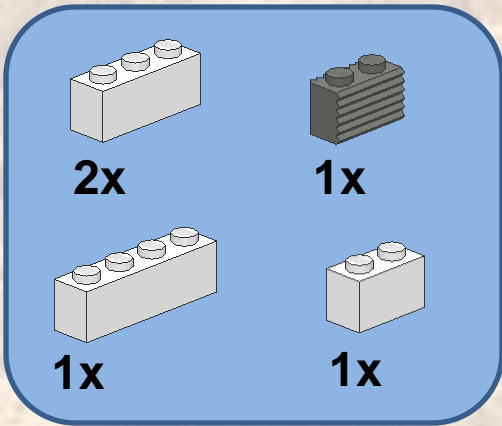
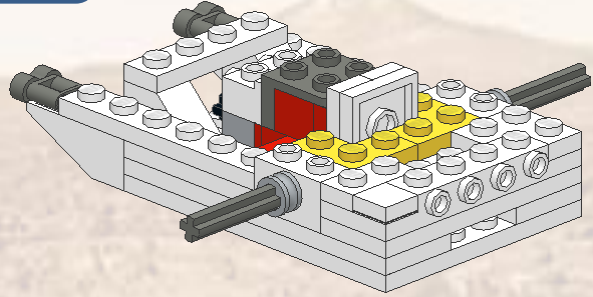
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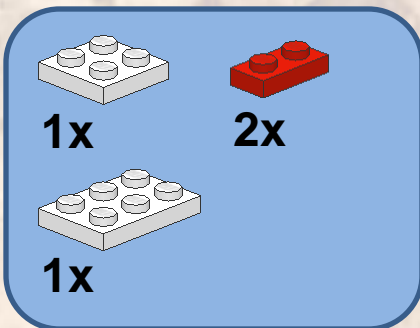
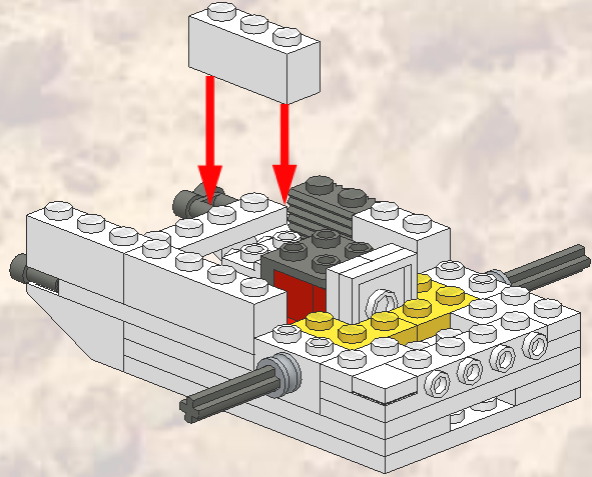




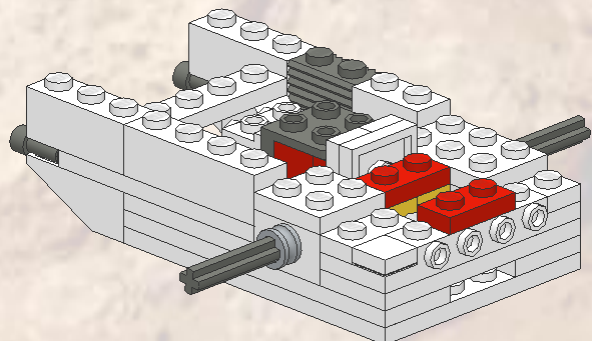
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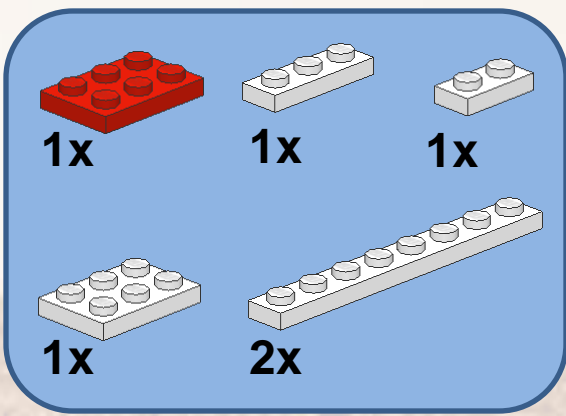


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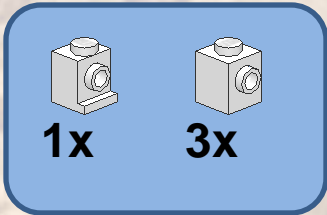
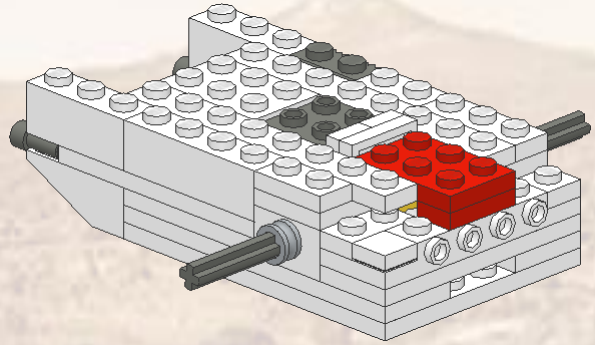


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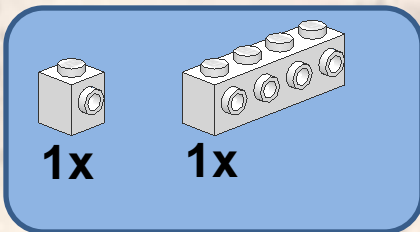
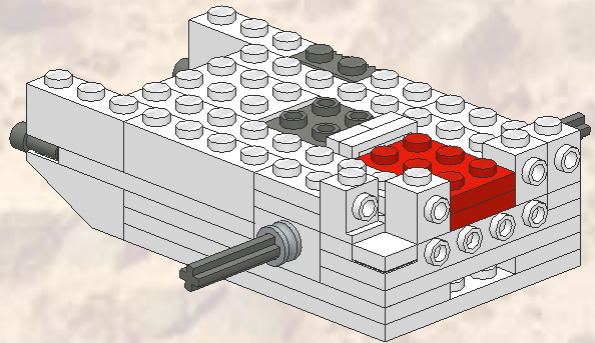




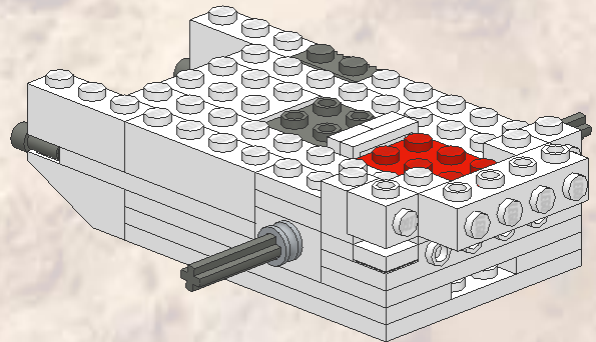
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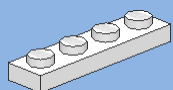


18



19





1x

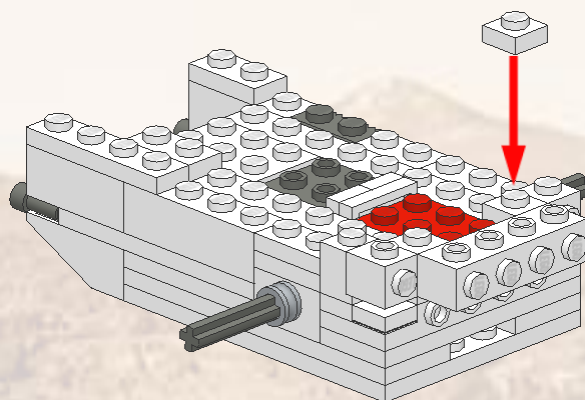


2x

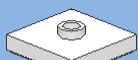


1x

20

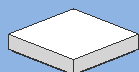
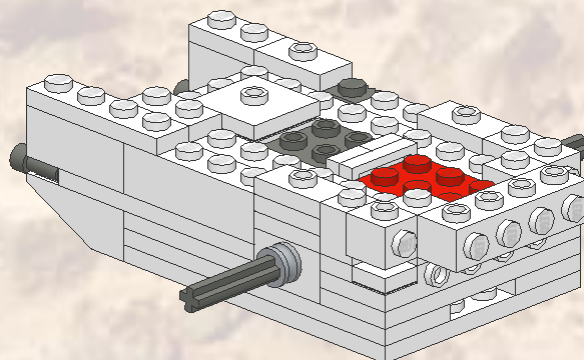


3x



1x

21



2x

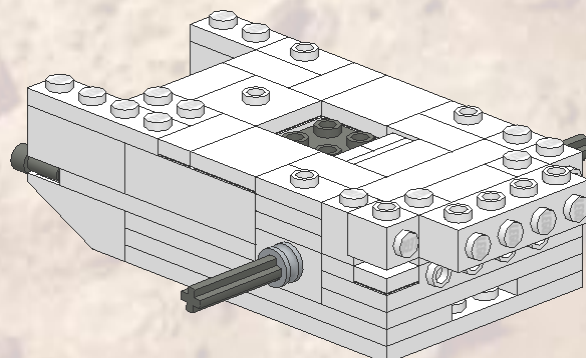


8x



1x

22





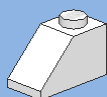
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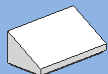
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1x

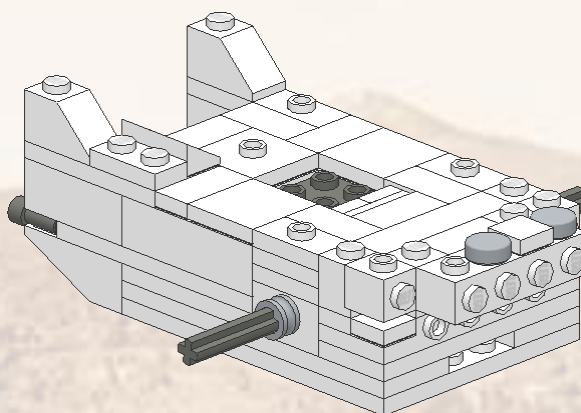


2x



1x

23

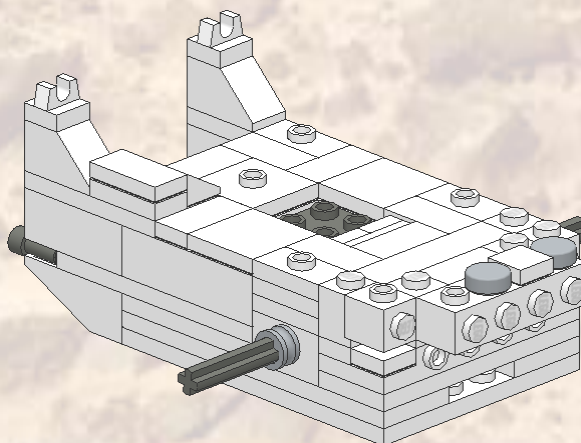


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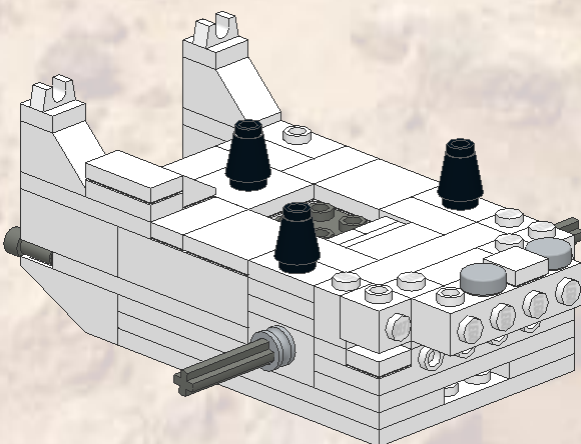
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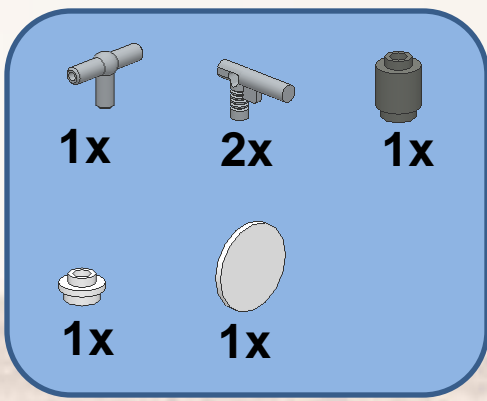
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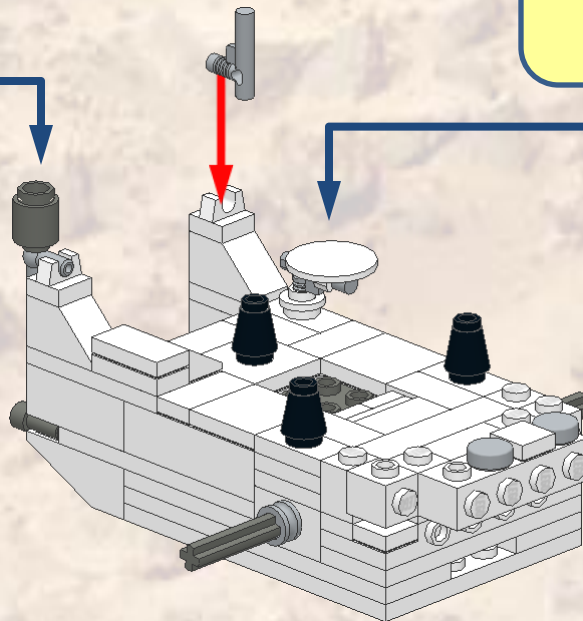
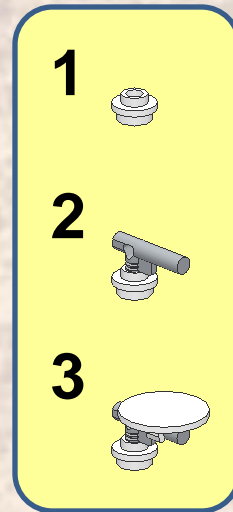
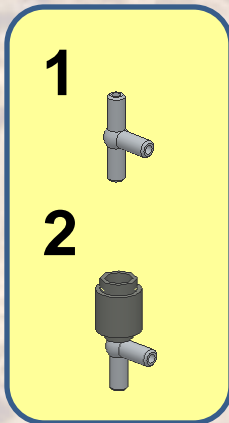
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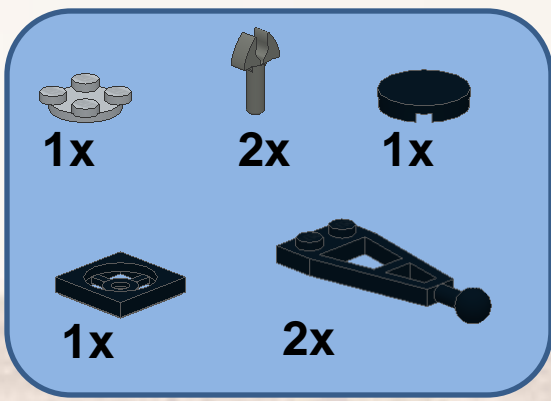
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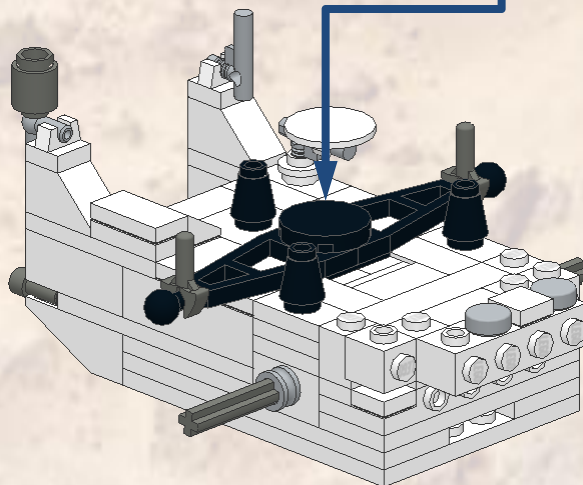
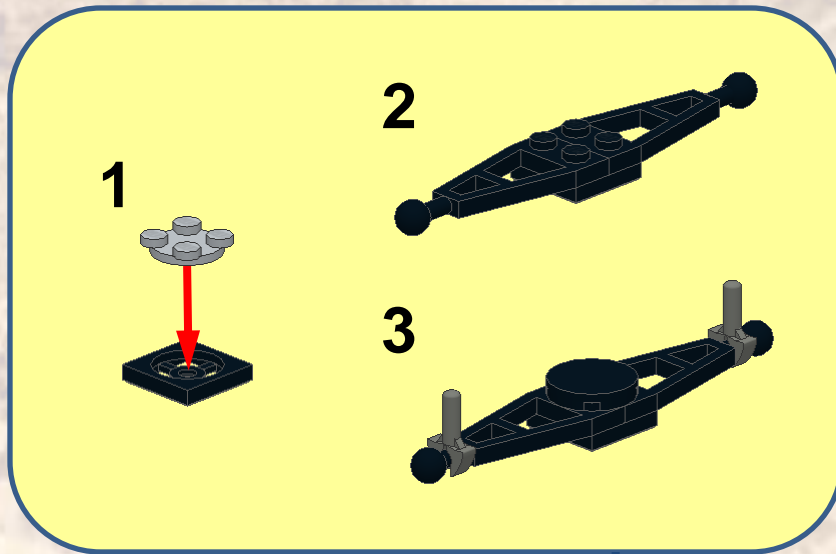


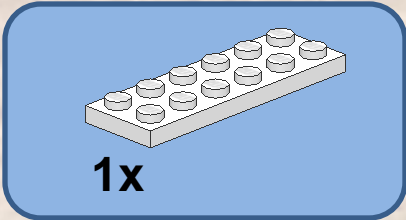
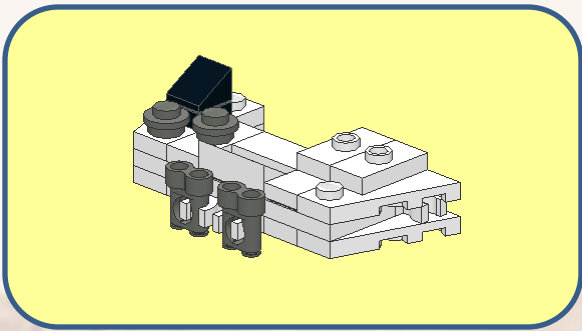
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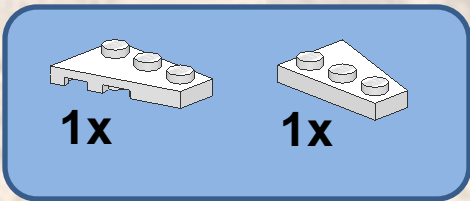
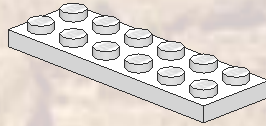


27

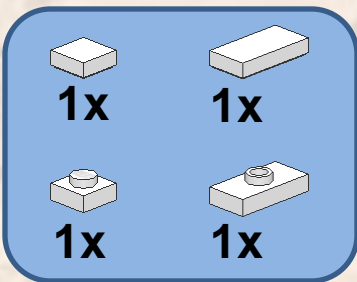
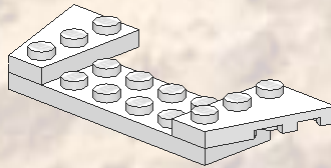




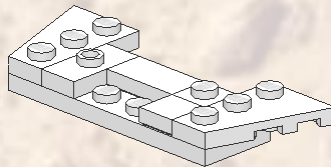
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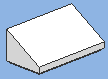


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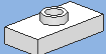


3





1x

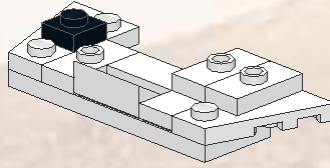


2x



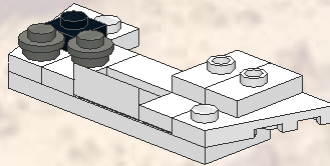
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4



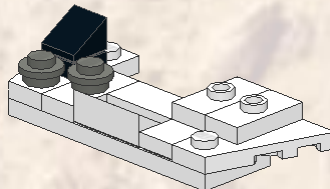
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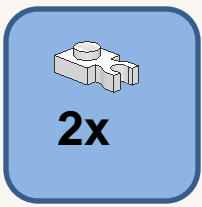
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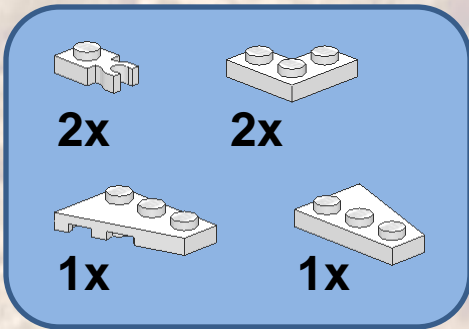
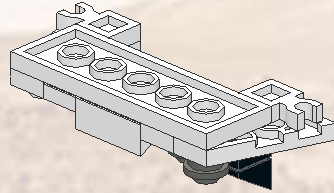
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6

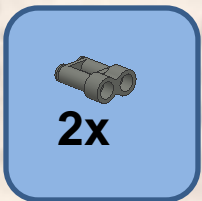
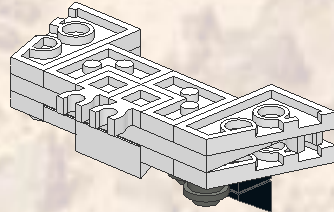




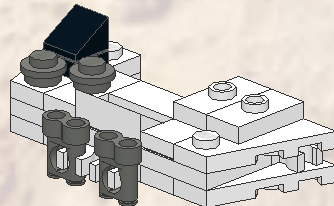
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8

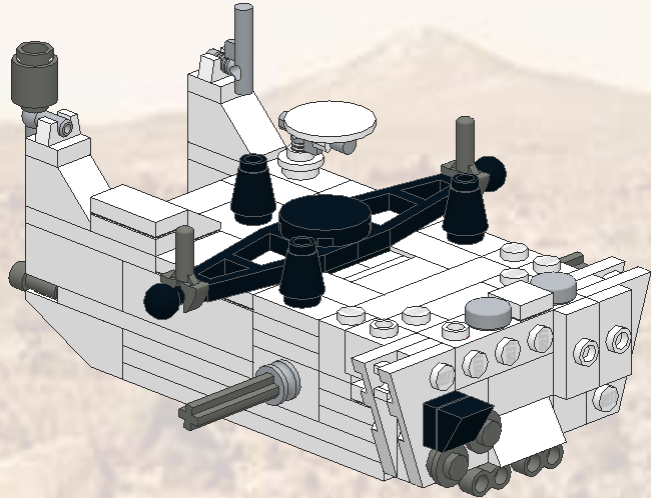


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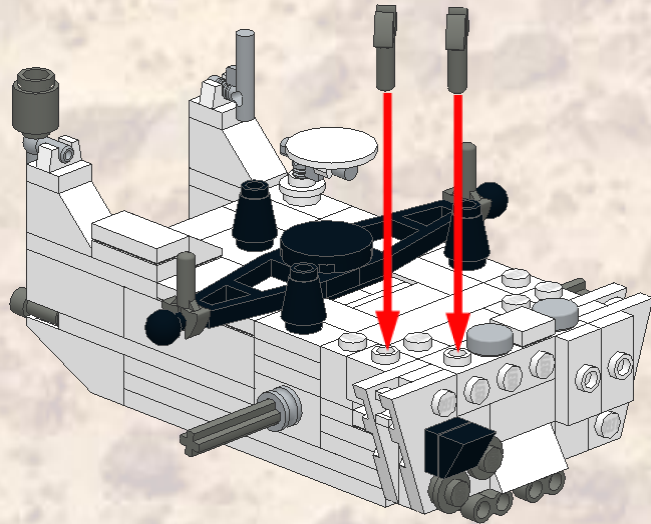


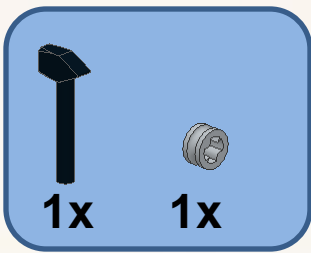


28

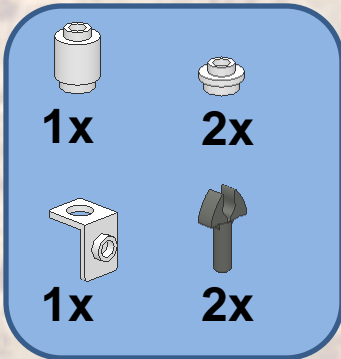
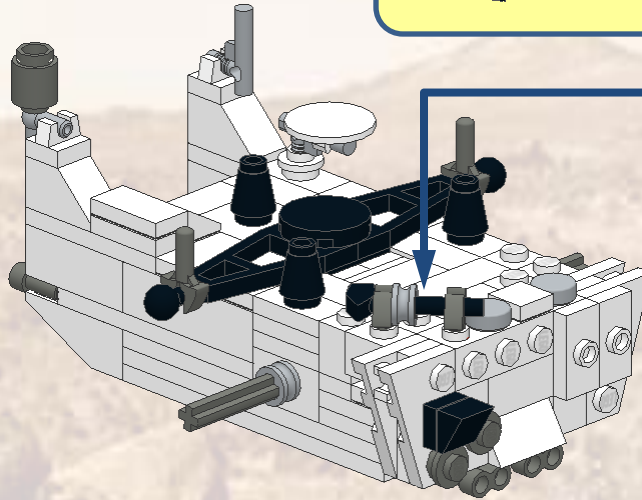
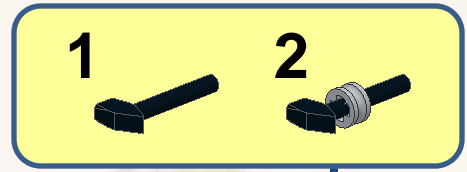


29

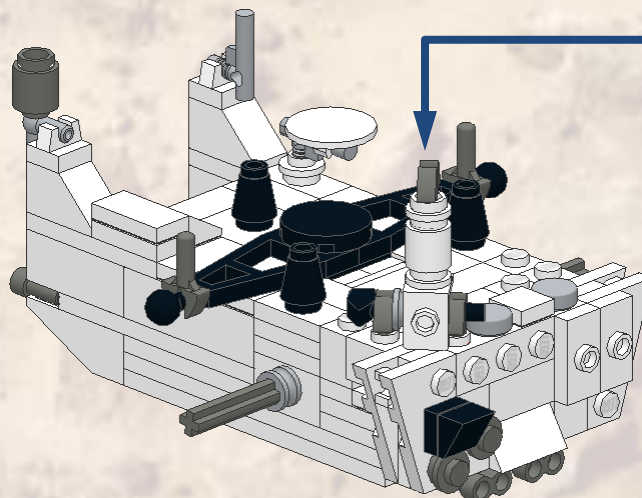
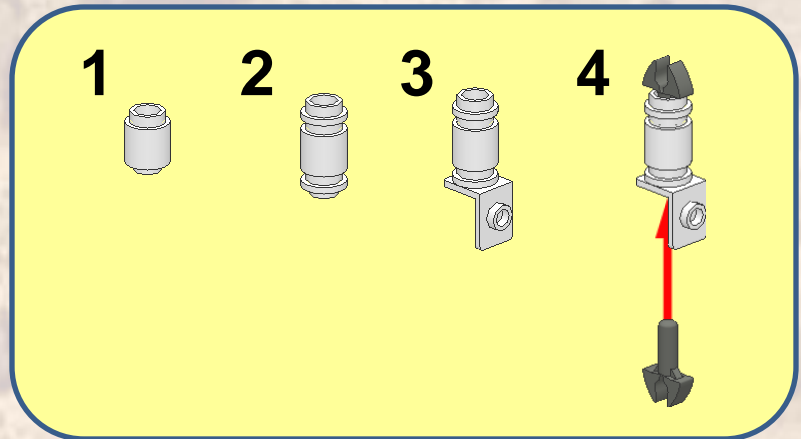




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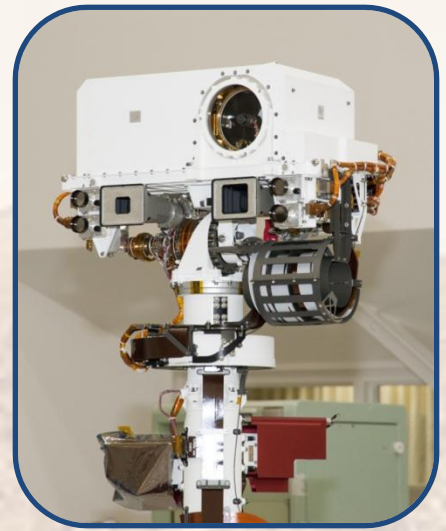


31



MAST

The mast includes high-definition cameras and a laser-equipped, spectrum reading camera that can hit a rock with a laser and observe the resulting spark for information about what chemical elements are in the rock.

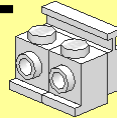


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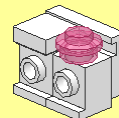
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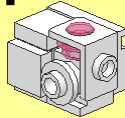
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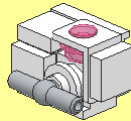
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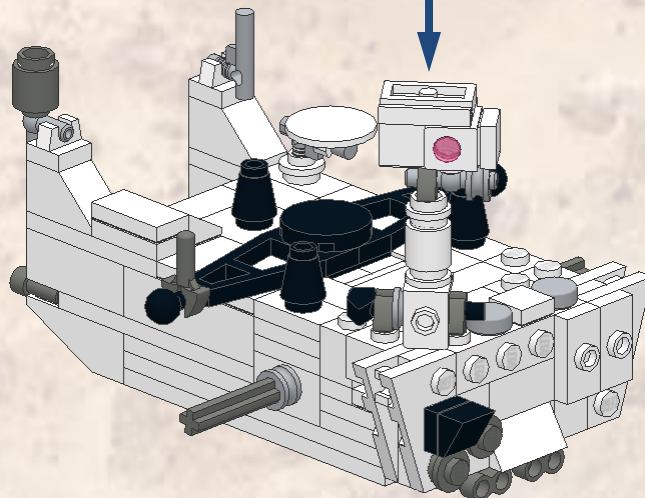
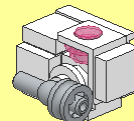
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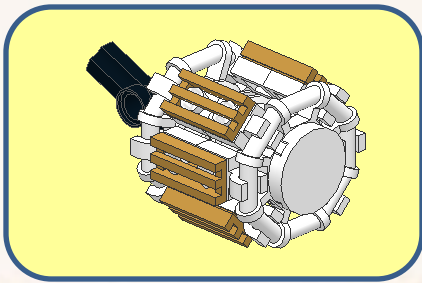


5



6





4

1:1

1x

1x

1

1x

1x

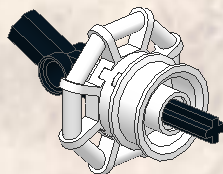
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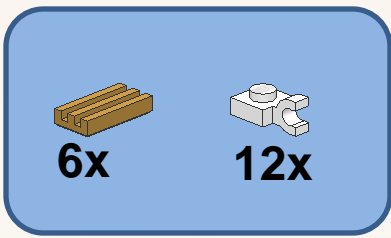
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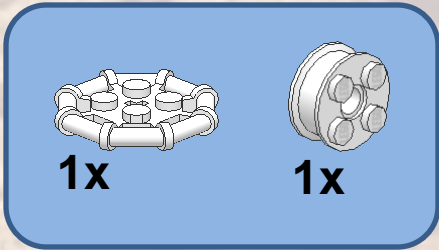
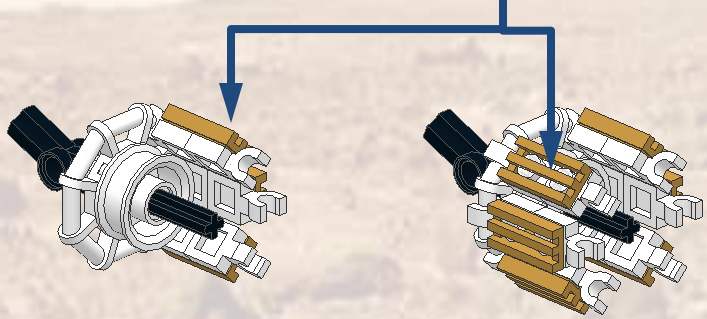
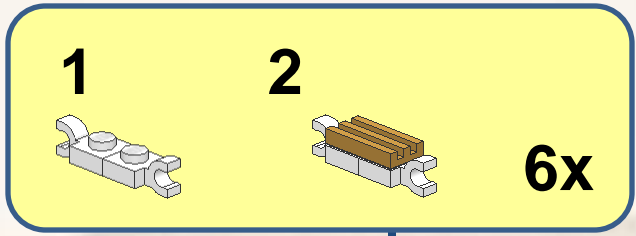
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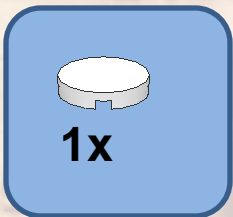
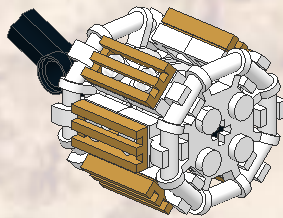
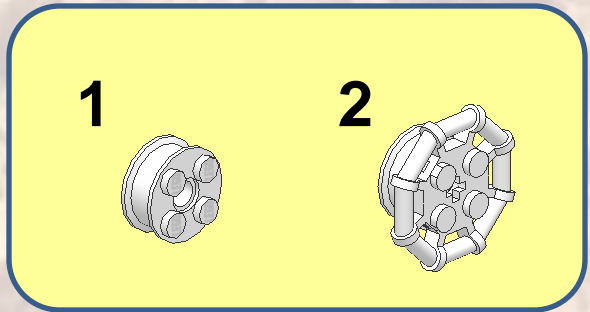




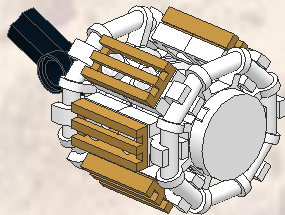
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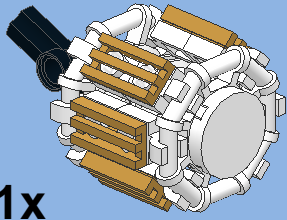


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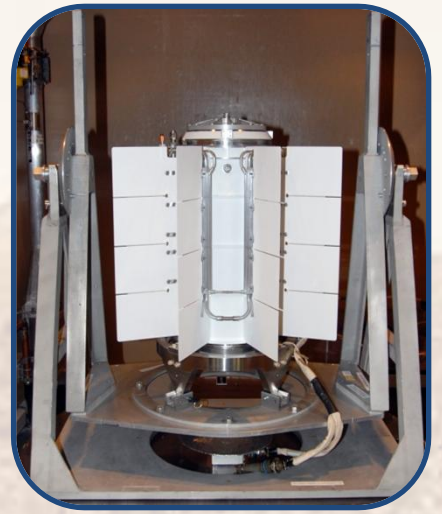




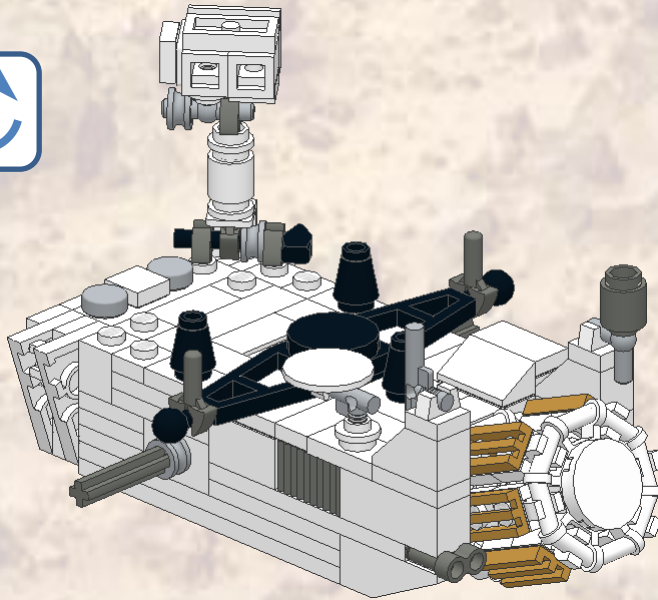
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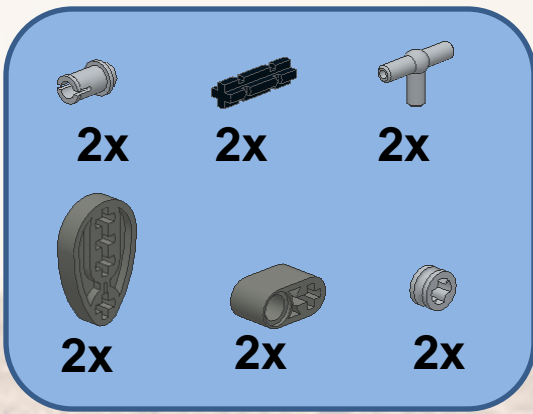
RADIOISOTOPE THERMOELECTRIC GENERATOR (RTG)

The RTG uses the energy from the natural decay of Plutonium-238 dioxide to provide Curiosity with 110 watts of power and is designed to last for a minimum of 14 years.

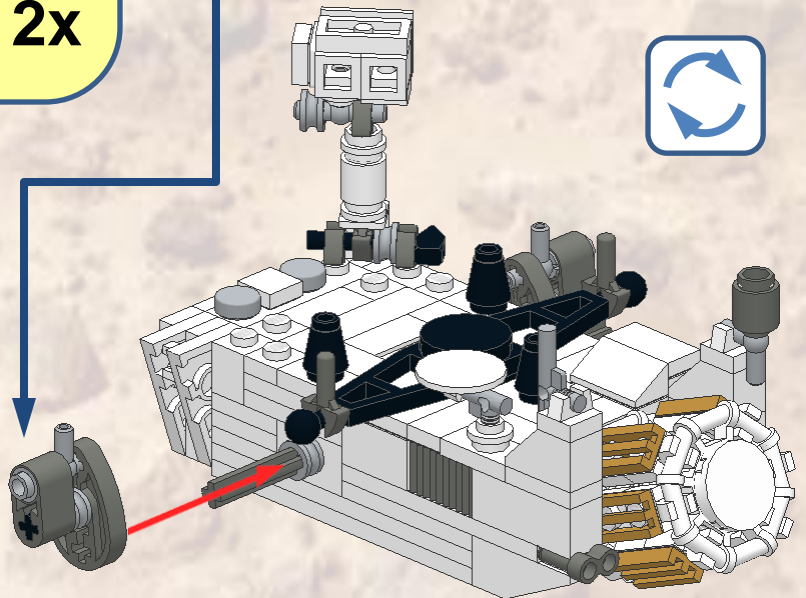
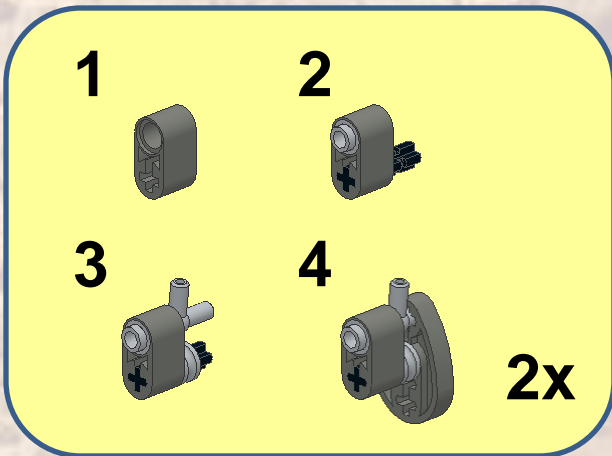
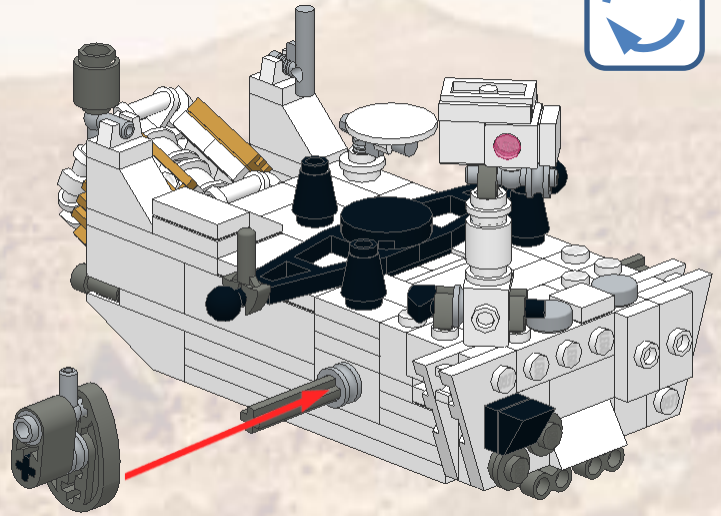


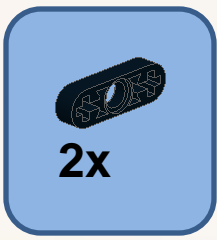
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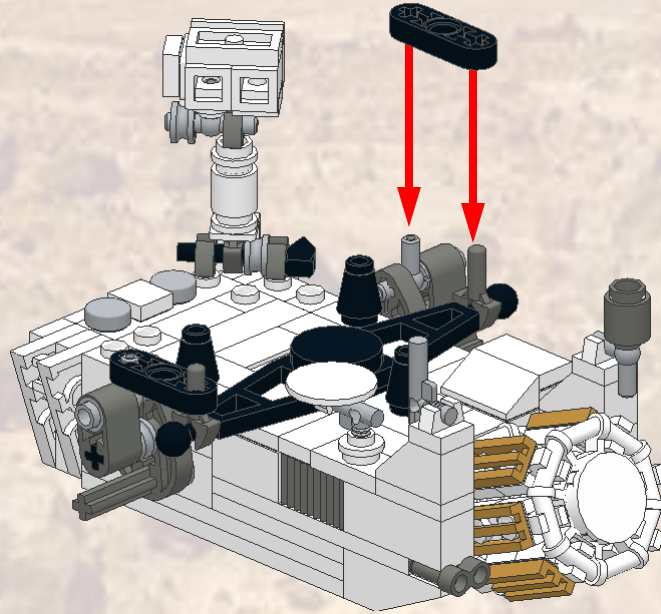


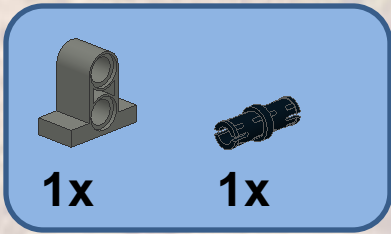
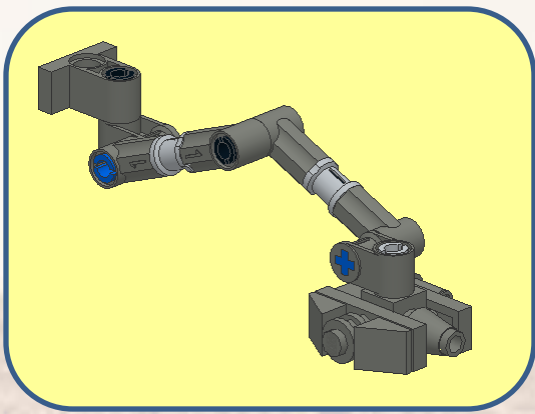
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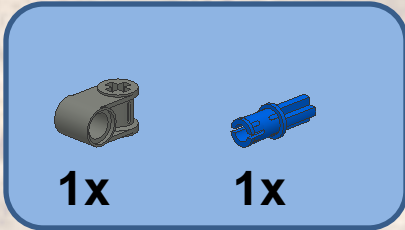
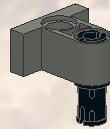


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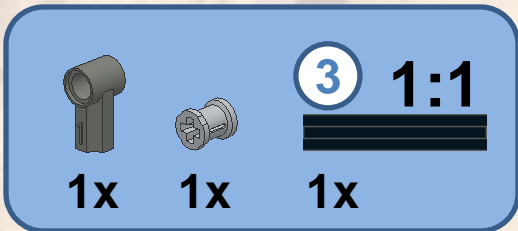
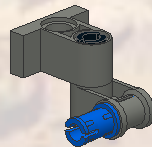




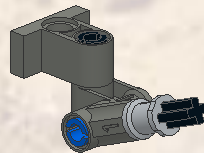
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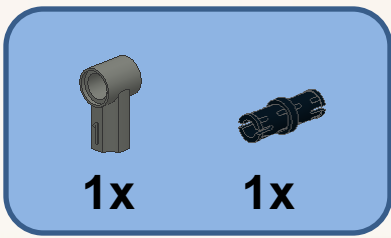


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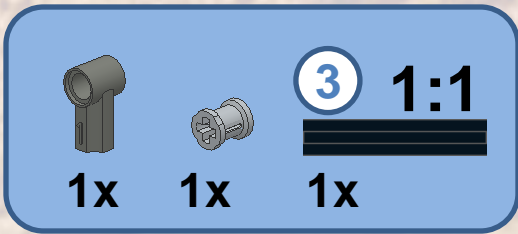
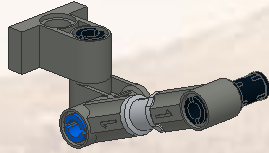


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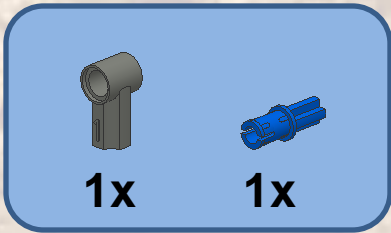
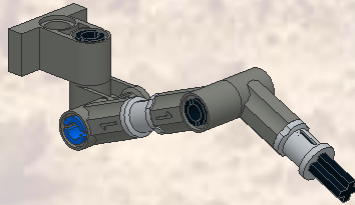




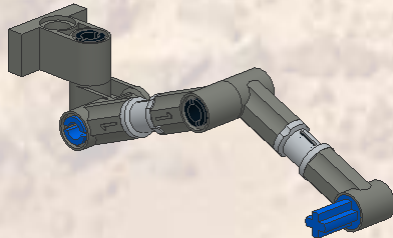
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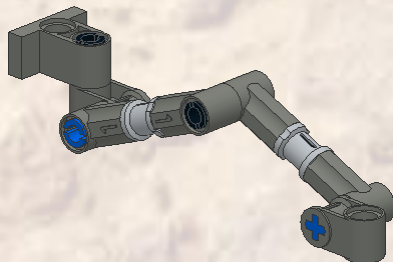
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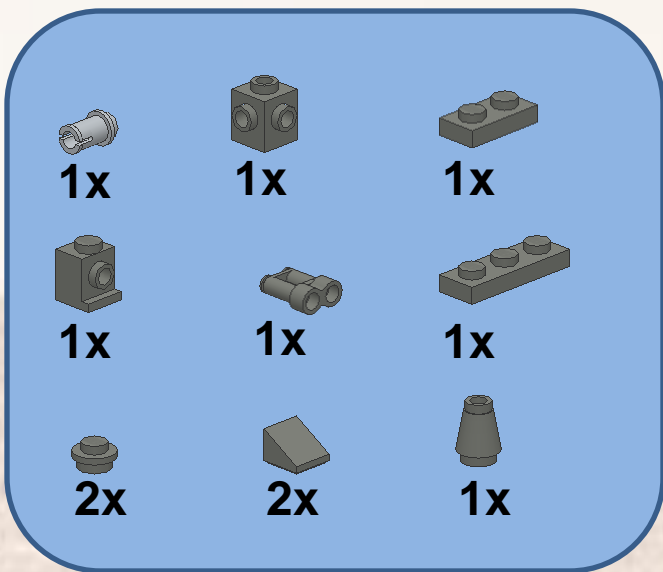


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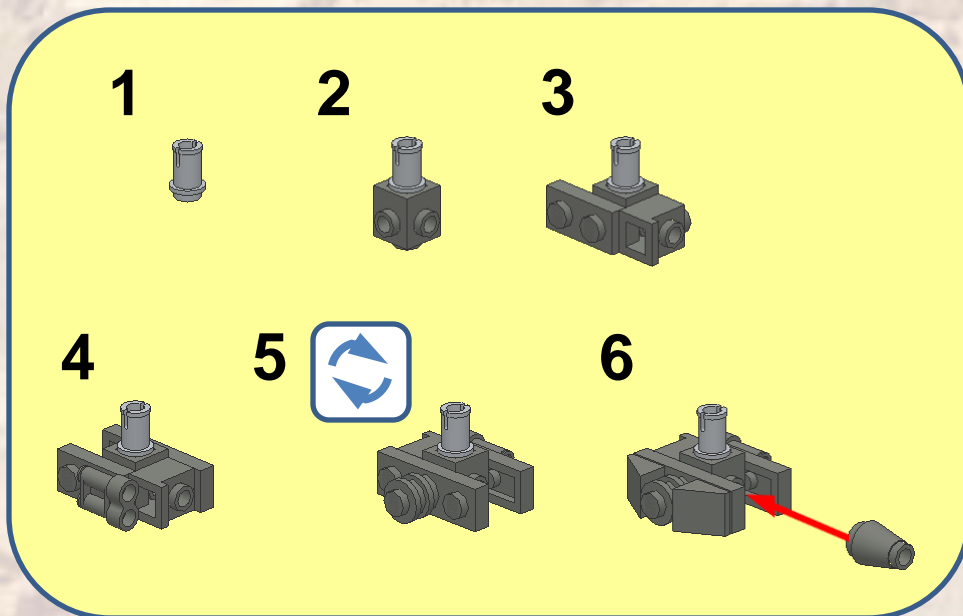
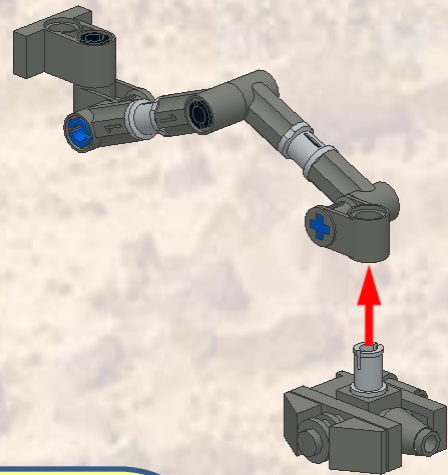


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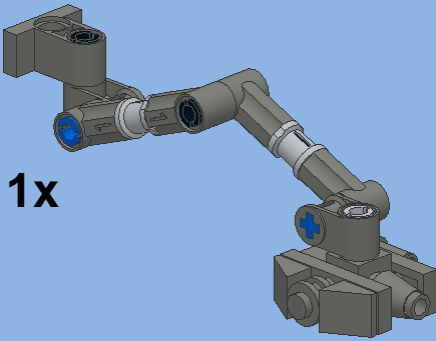


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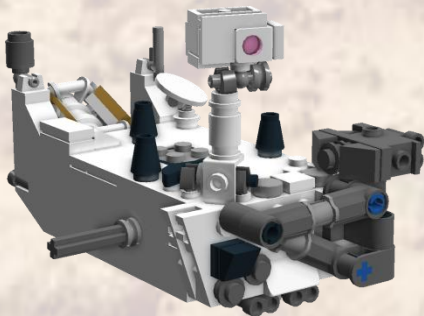
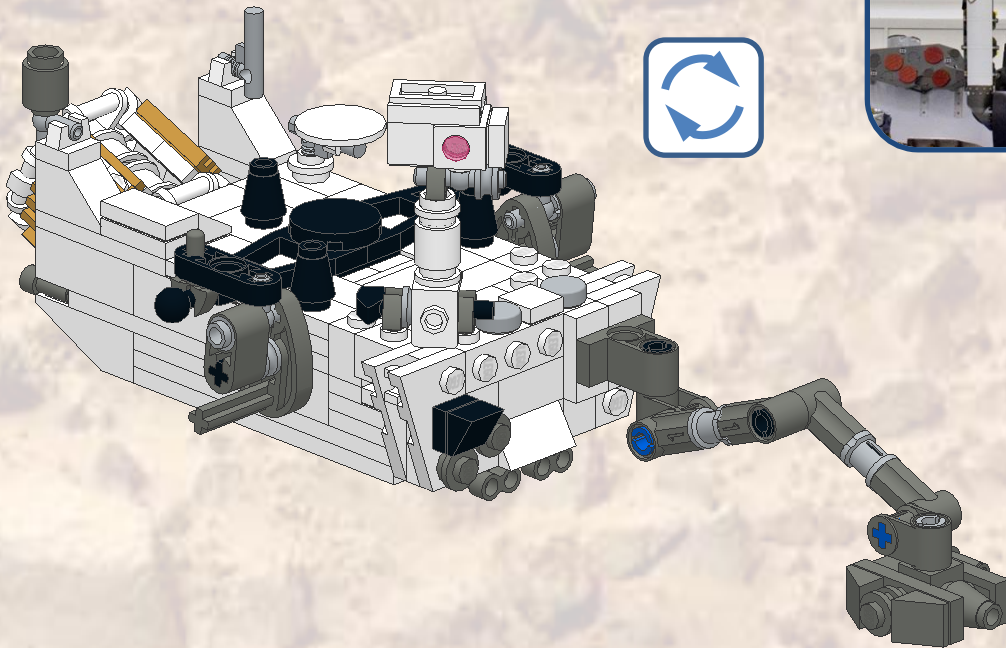
ROBOTIC ARM

The Turret at the end of the Robotic Arm contains a spectrometer, brush, camera, drill , and a color camera with a resolution of less than one-thousandth of an inch (14 microns). The arm is also used to grind up rock samples and deliver them to the SAM and CheMin instruments inside the body of the rover for analysis.

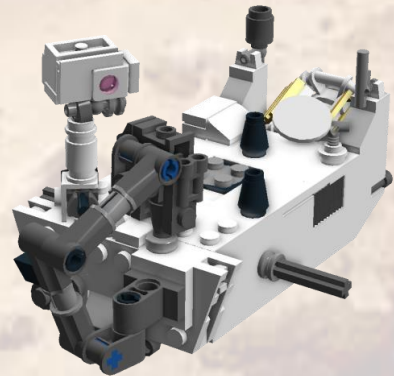


1x

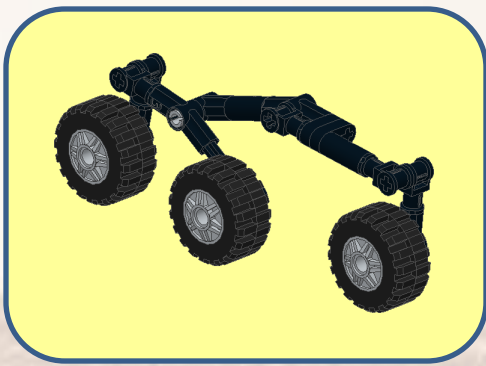
36



Robotic arm in stowed position.



Delivering soil to sample inlets.




4 1:1

1x 1x 1x



1


2x



2

5 1:1

1x



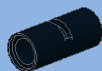
3



2x



1x



1x

4

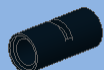


1x



1x

5



1x



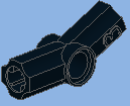
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1x

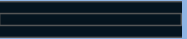
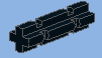
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
1:1

1x
1x
1x

7





1x
1x

8

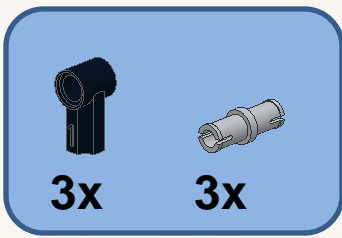


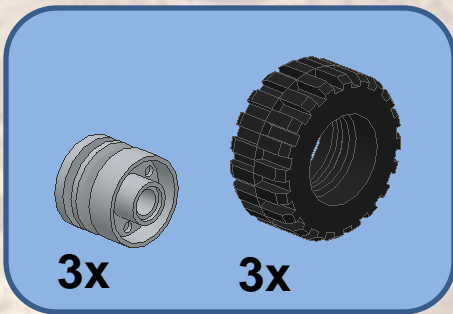
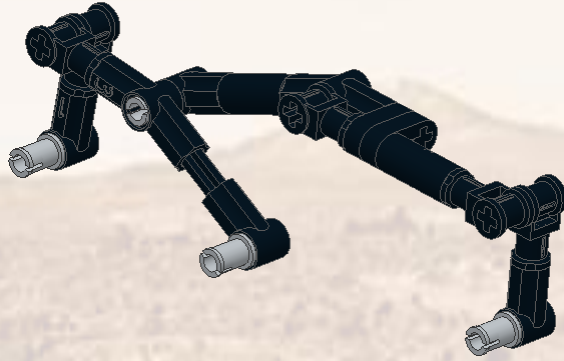
1x
1x

9

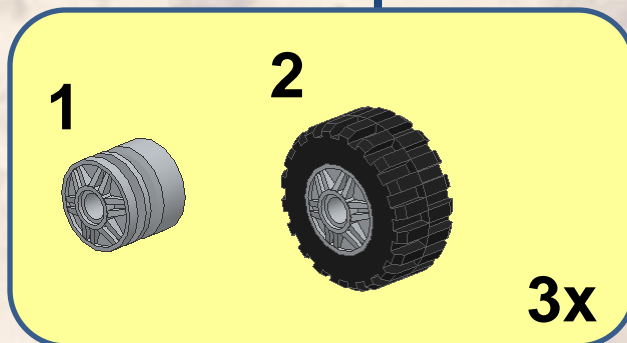
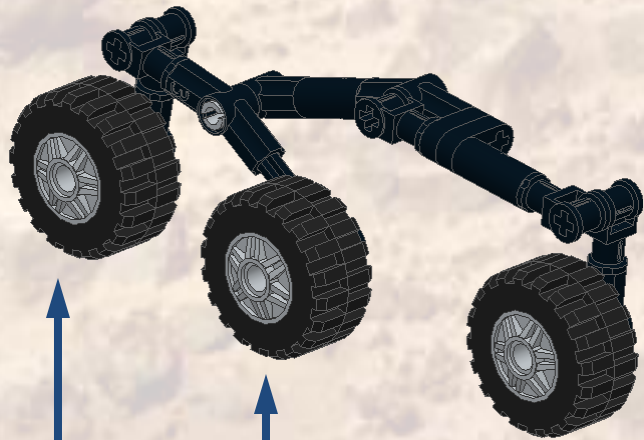


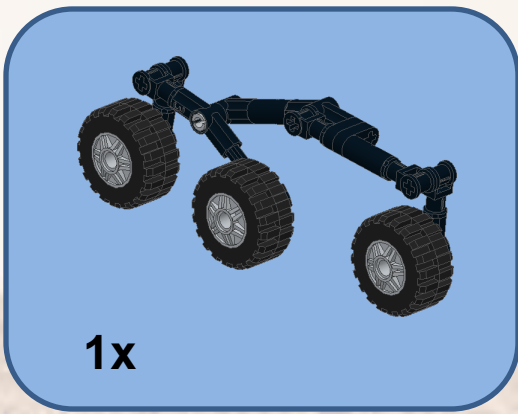


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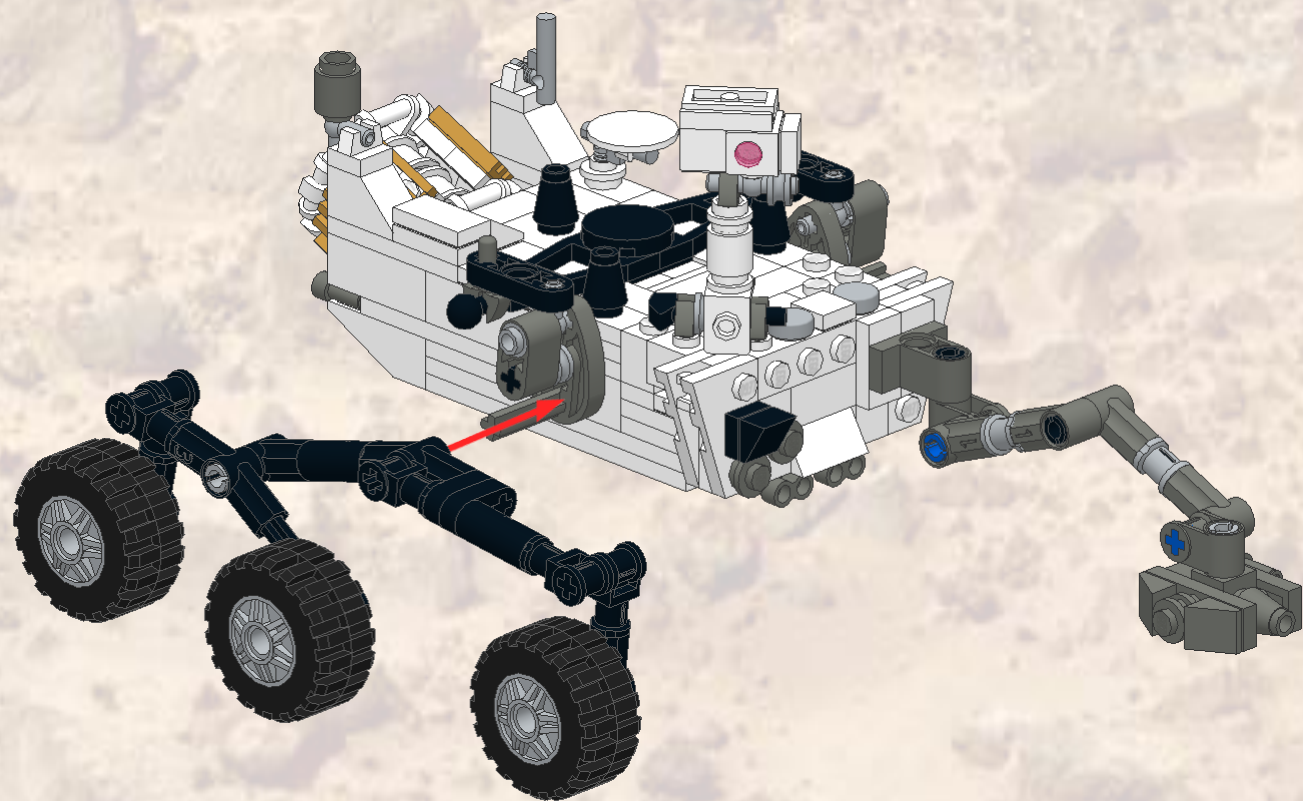


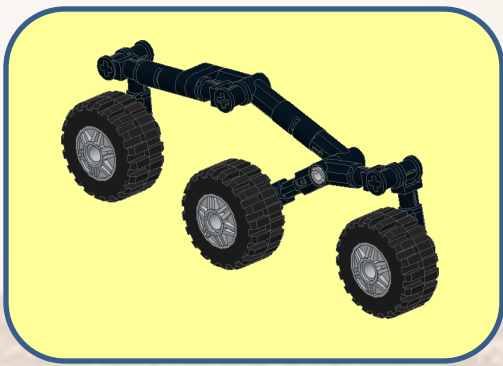
11





37





4 1:1

1x 1x 1x

1



2x

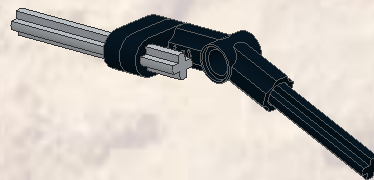
2



5 1:1

1x

3

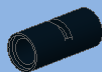




2x

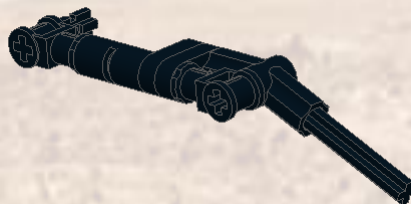


1x



1x

4

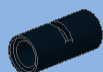
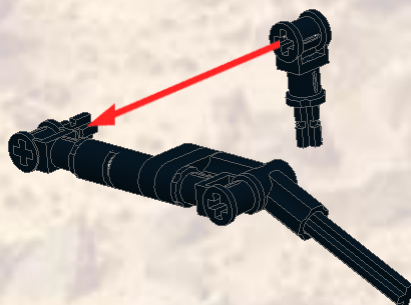


1x



1x

5



1x



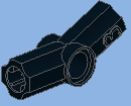
1x



1x

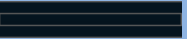
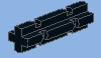
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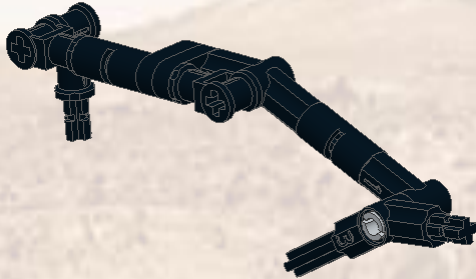
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1:1

1x
1x
1x

7





1x
1x

8

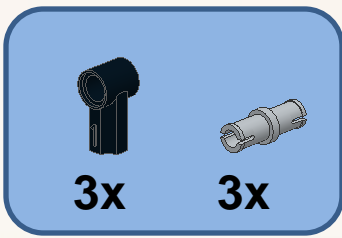


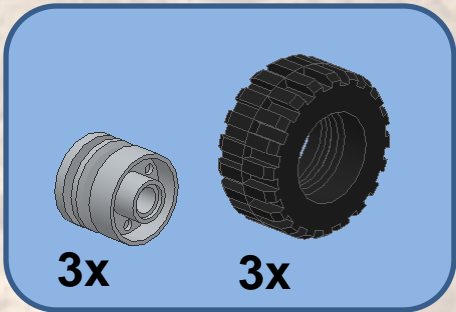
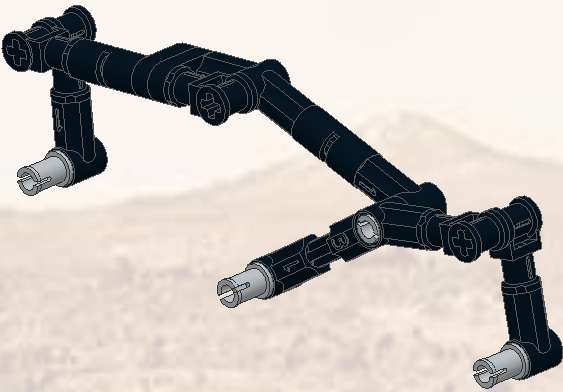
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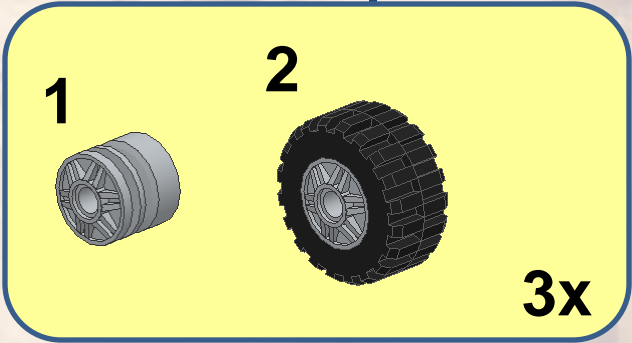
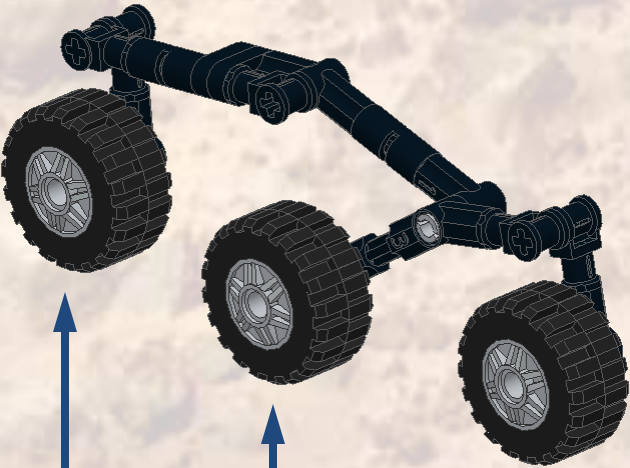


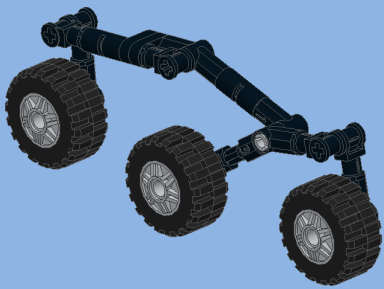


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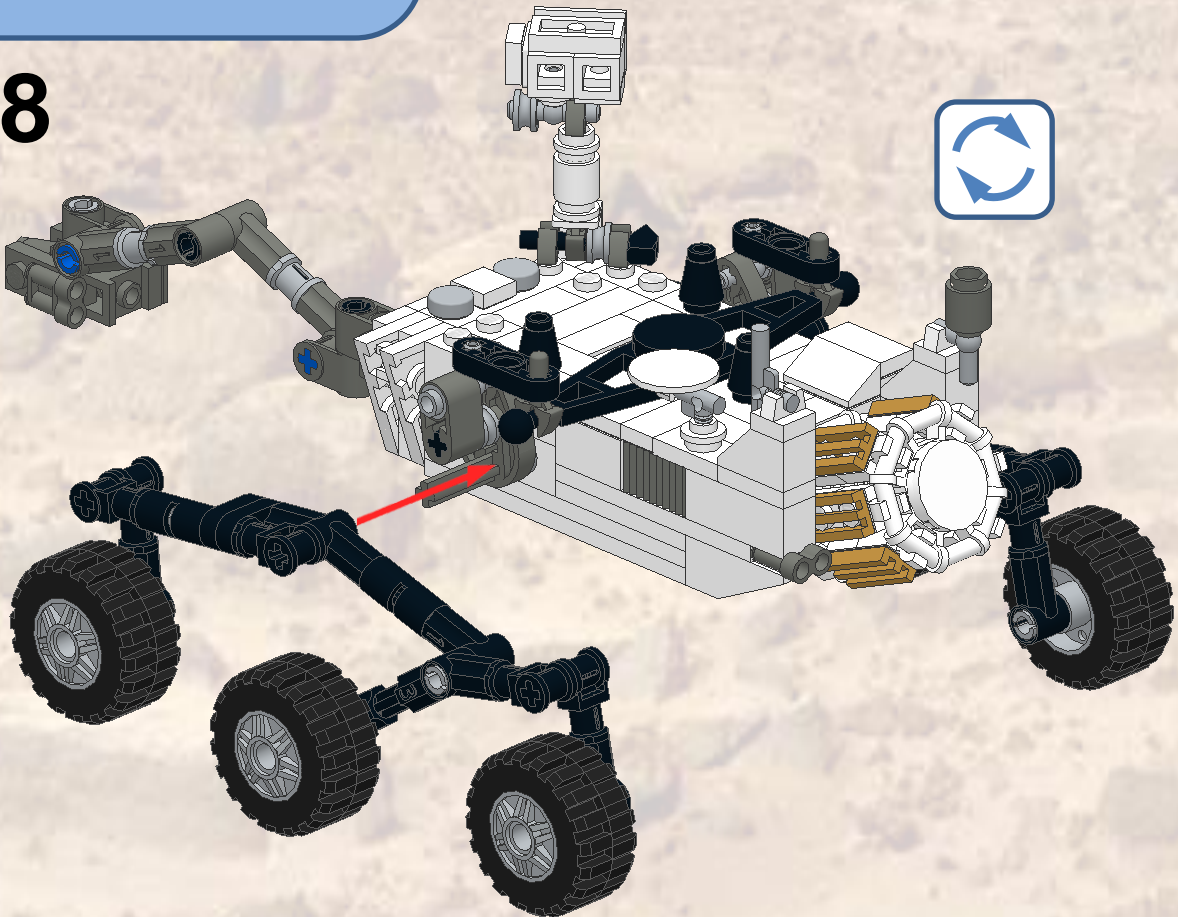
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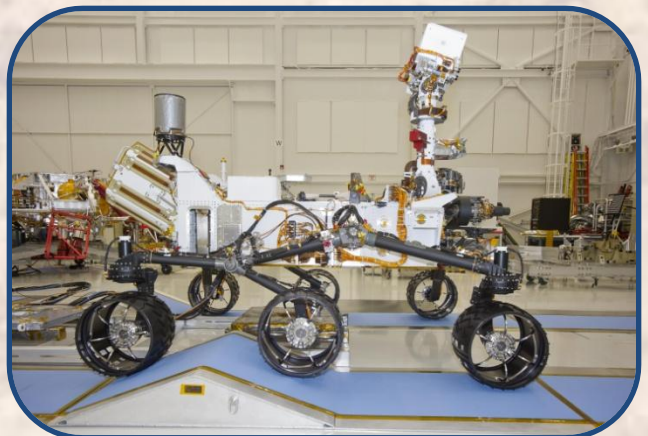
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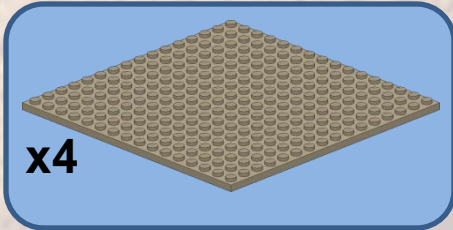
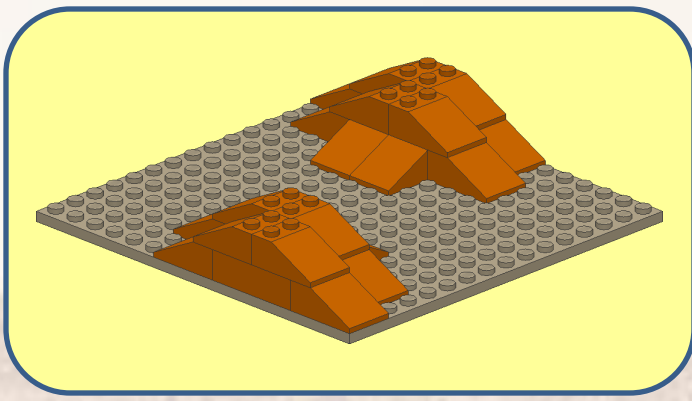
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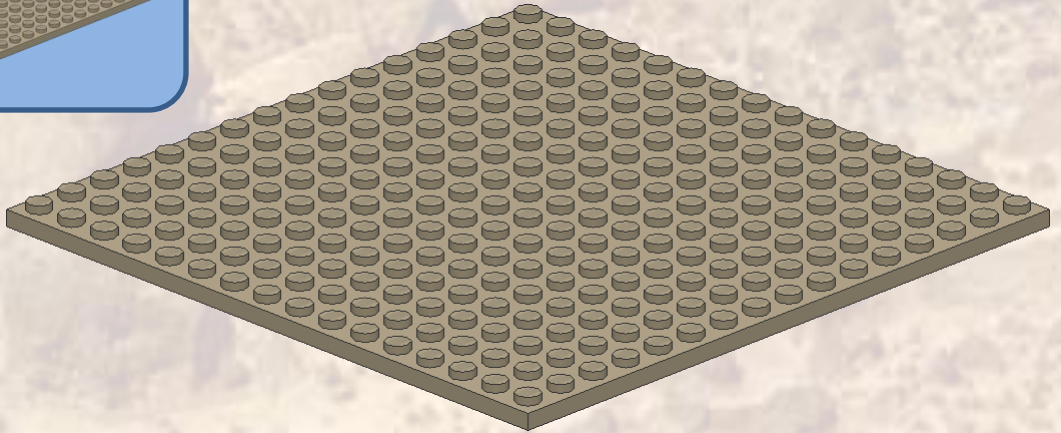
ROCKER-BOGIE SUSPENSION SYSTEM

The rover body is balanced on the rocker-bogie suspension through an offset-differential arm that runs across the top of the rover, connecting the left and right sides of the suspension. This helps to minimize the tilt of the rover body as it travels over uneven terrain. This system also allows the rover to keep all six wheels on the ground and climb over rocks that are taller than its 20 inch (50 cm) diameter wheels.

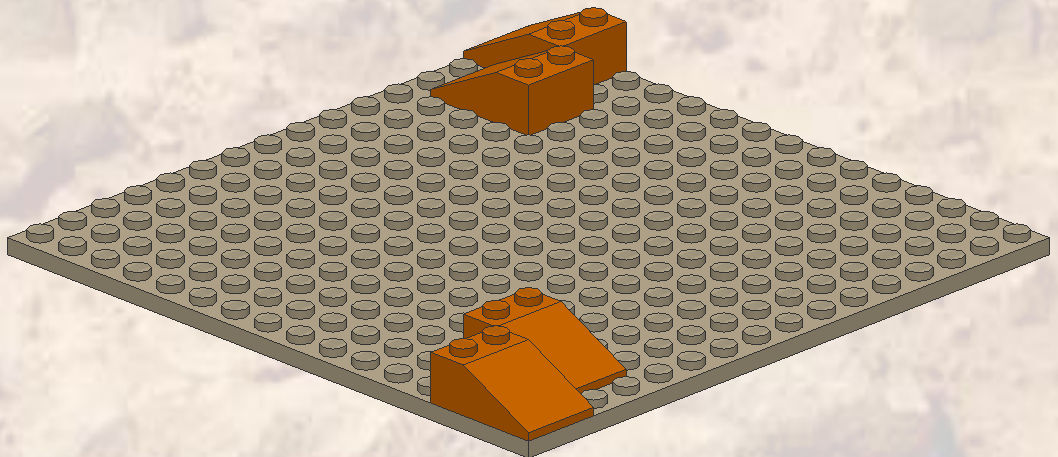


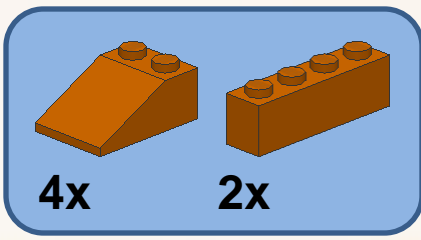


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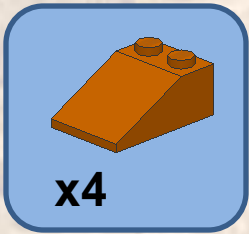
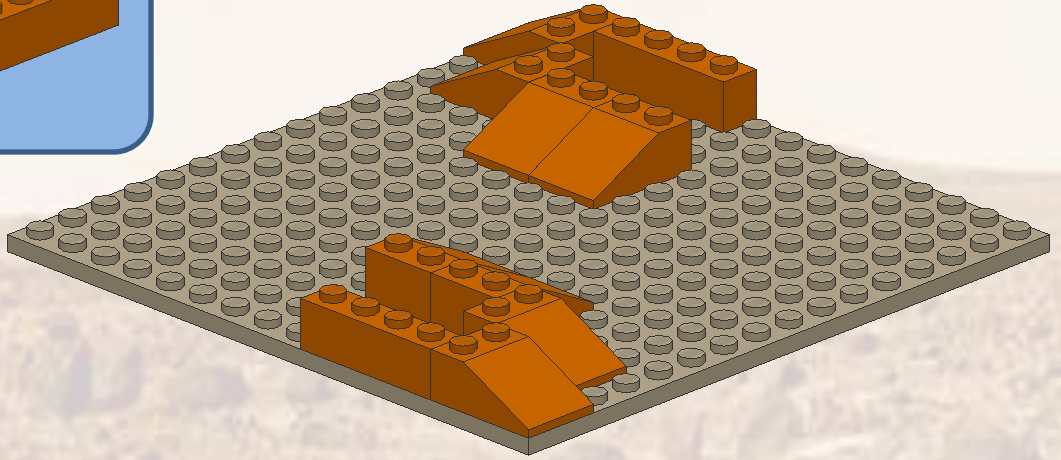


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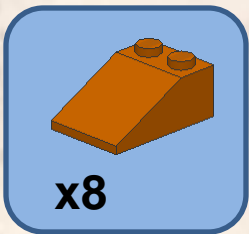
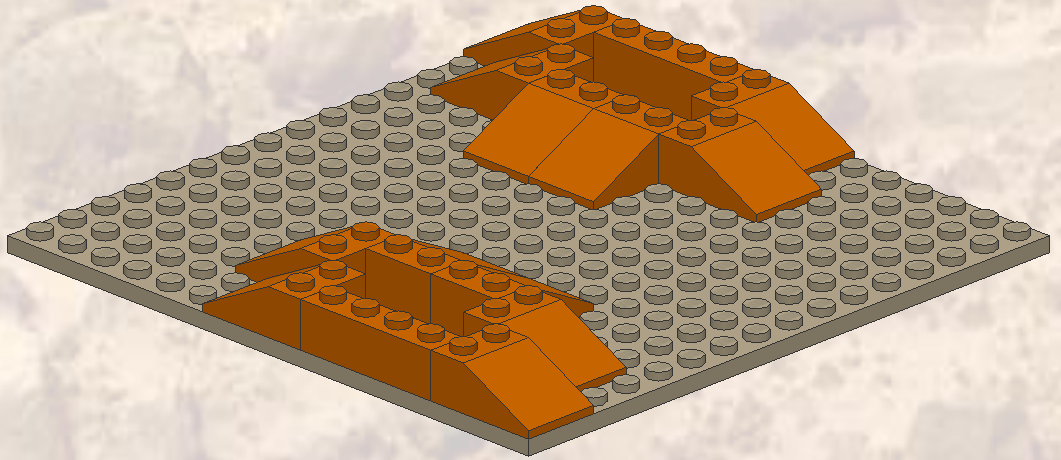




3



4



5

