



NATIONAL
GEOGRAPHIC

EPIC FORTS

BUILDING KIT



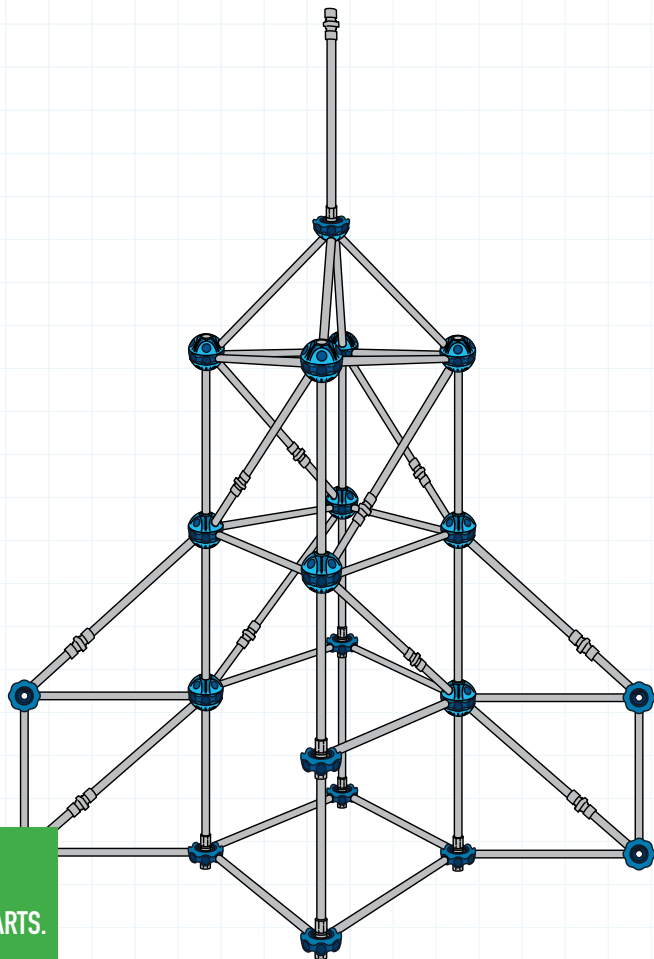
WARNING:

INJURY HAZARD—PROTRUDING POLES CAN CAUSE EYE INJURY. DO NOT ALLOW POLES TO PROTRUDE WITHOUT A CONNECTOR ON THE END. AN ADULT SHOULD CHECK FOR PROPER ASSEMBLY BEFORE USE.



WARNING:

CHOKING HAZARD—SMALL PARTS. NOT FOR CHILDREN UNDER 3 YRS.



PLEASE READ ALL INSTRUCTIONS
before use of this product. Retain this instruction manual
since it contains important information, address and
phone number for future reference.

SAFETY INFORMATION

- Use under adult supervision only.
- Correct and firm assembly must be followed.
- DO NOT allow children to climb or stand on this product.
- Keep away from fire.
- Use lightweight, breathable fabrics only when covering structures.
- Use this toy only as described.

CARE & CLEANING

- Avoid stepping on or bending poles. If any part becomes damaged, discard it immediately.
- Damp wipe only and dry naturally.
- To extend the life of this product, store away from direct sunlight.

Parts Guide



Extender x31



Hemisphere x21



Hub x26



Sheet Clip x8



Use lightweight sheets, not blankets



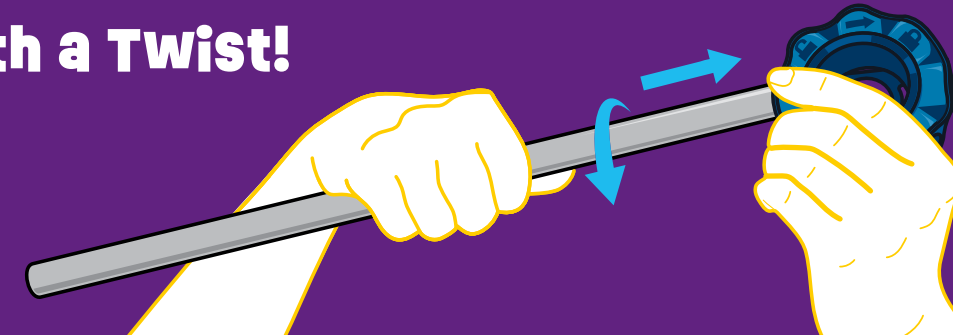
Short Pole x12



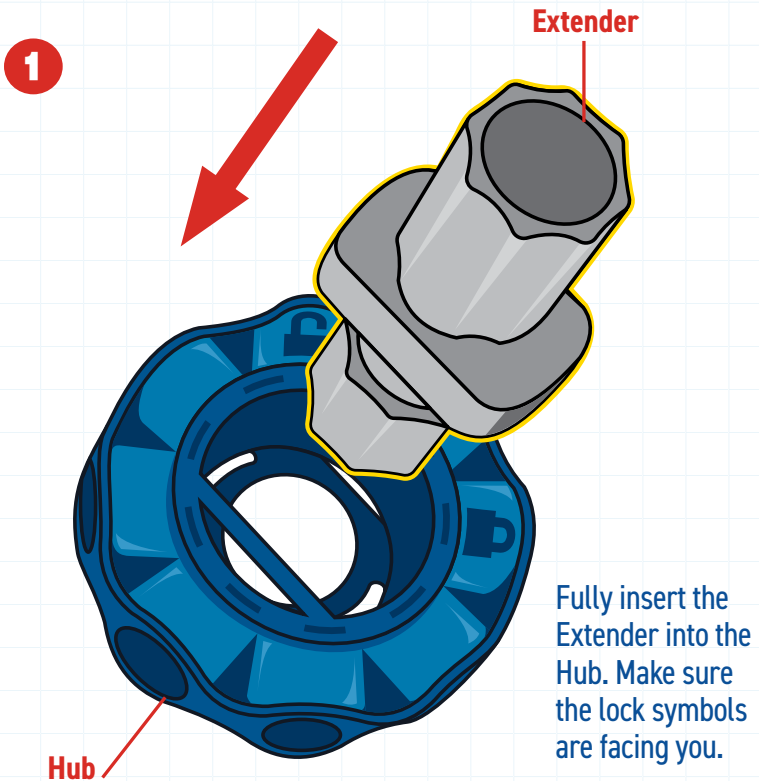
Long Pole x52

Connect Poles with a Twist!

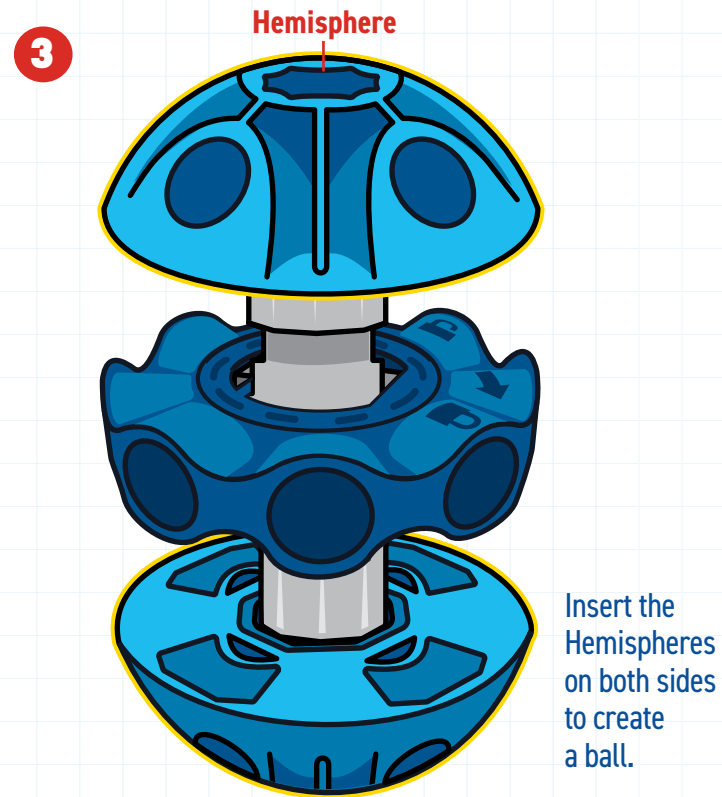
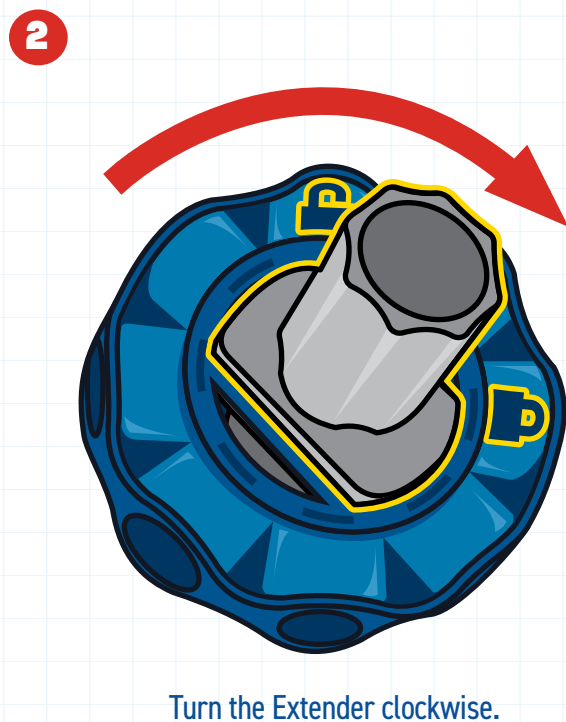
When inserting or removing poles from any connector, a simple twist will help them move easier.



Ball Assembly

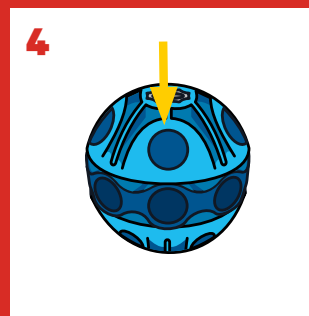
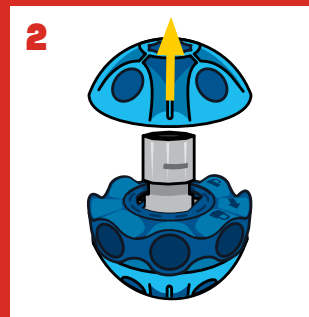
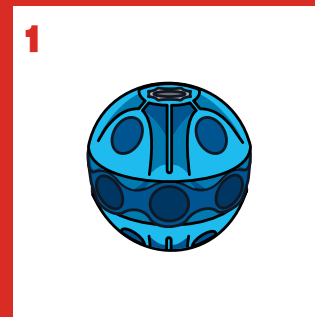


The ball assembly allows you to connect poles at many different angles.

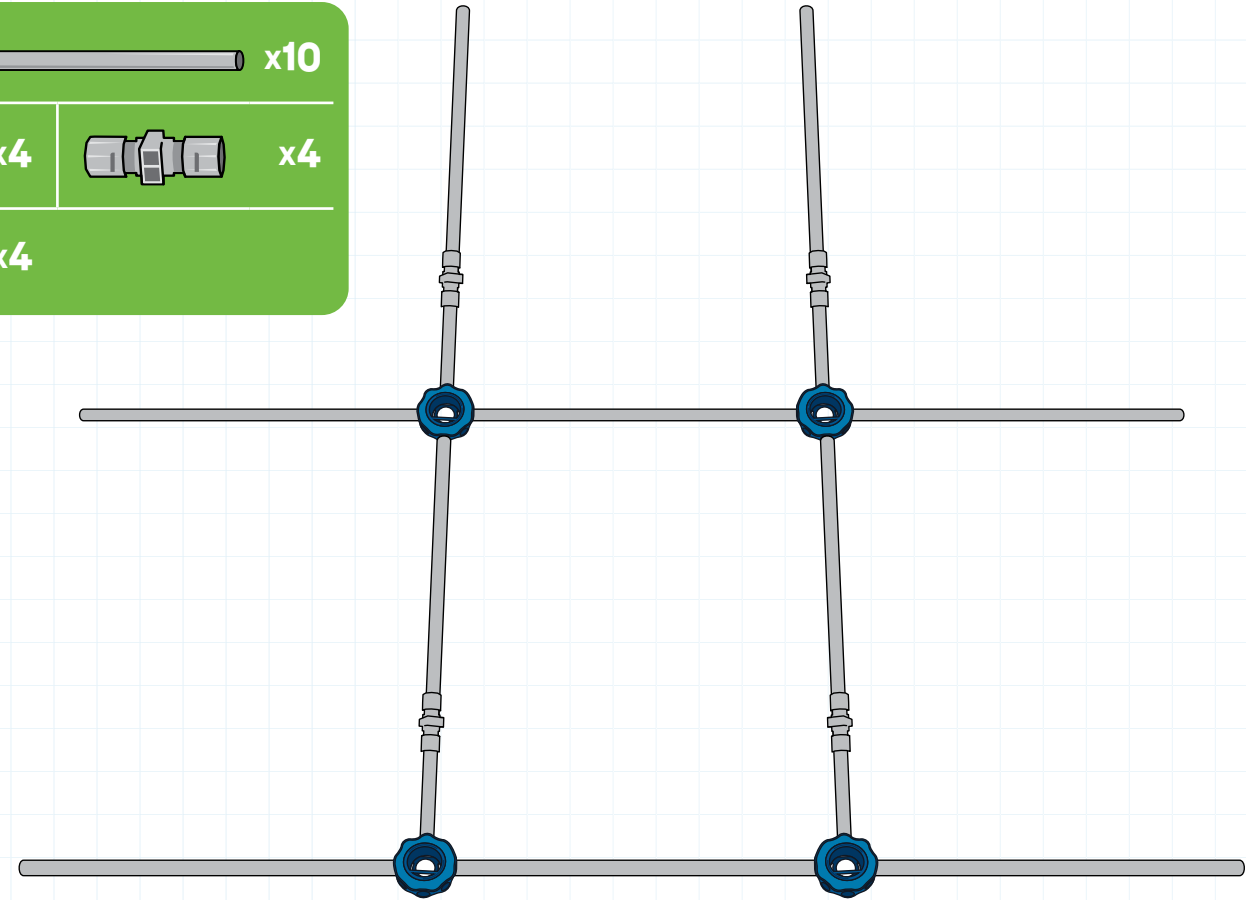
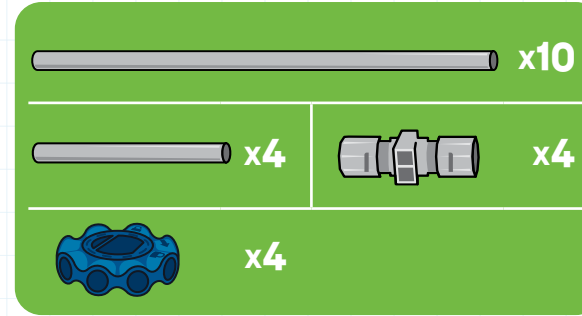
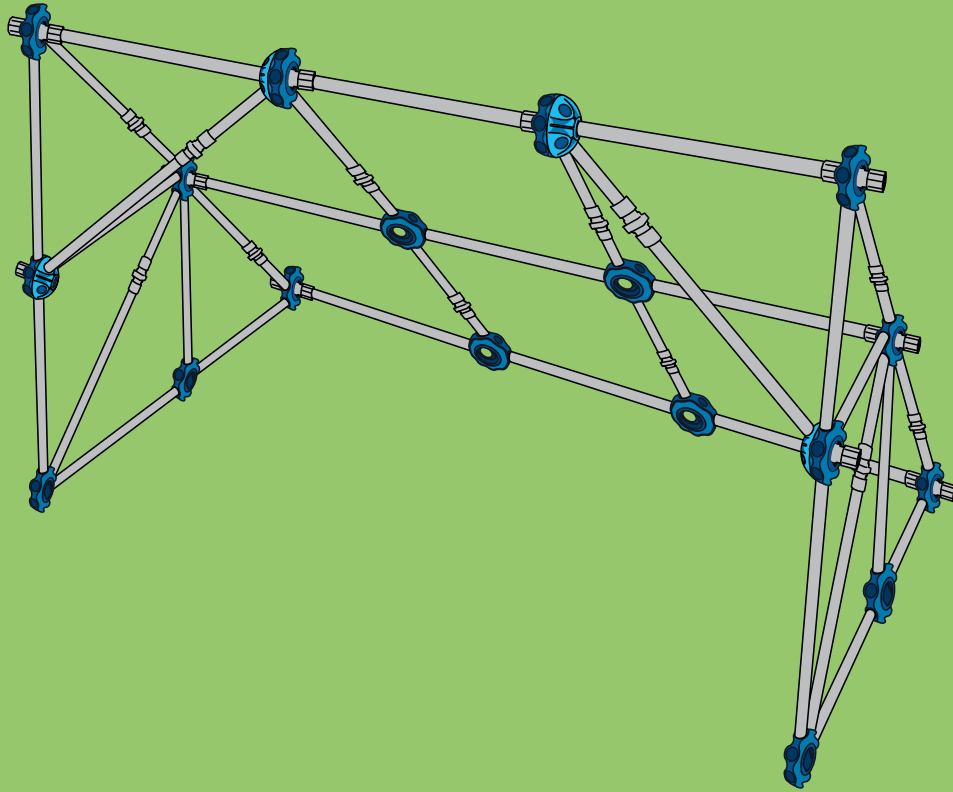


Helpful Connector Tip!

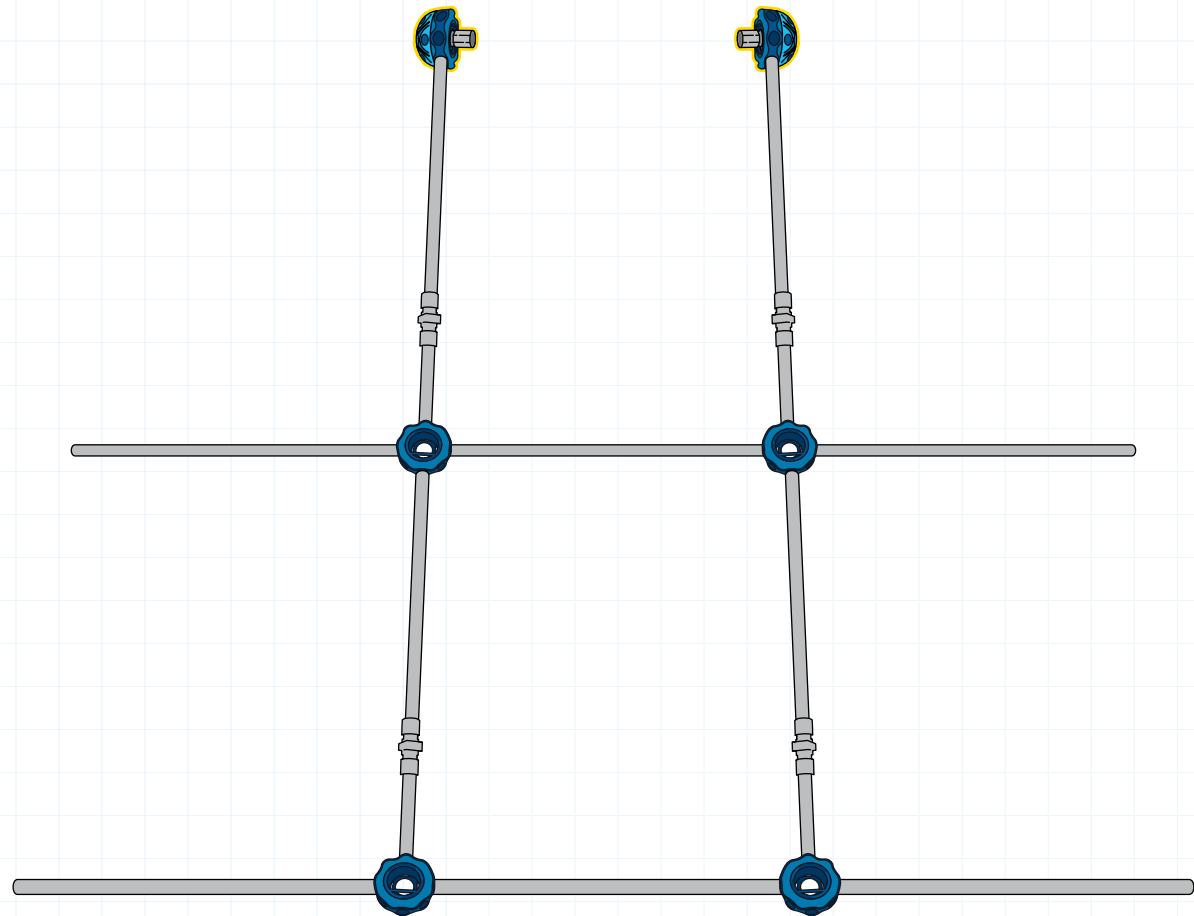
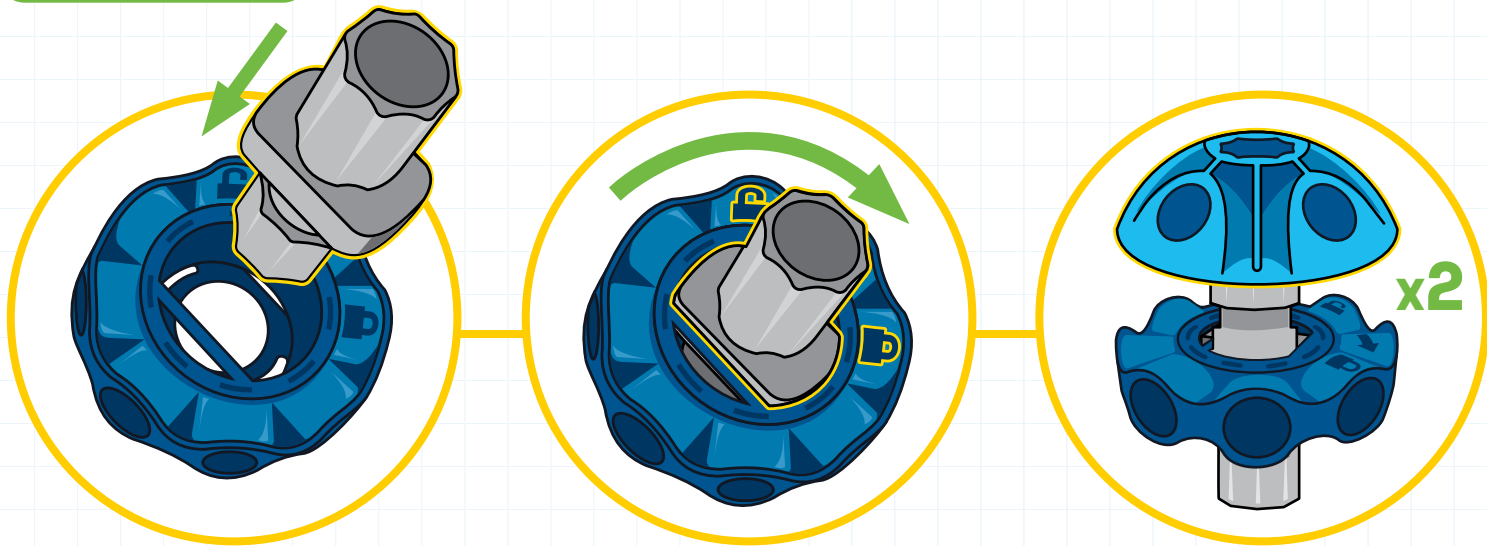
When making a ball, the hemisphere can be attached in two different orientations, lining up with any of the 8 holes on the hub! If the angle isn't right, just take the hemisphere off, turn it one spot, and snap it back on.

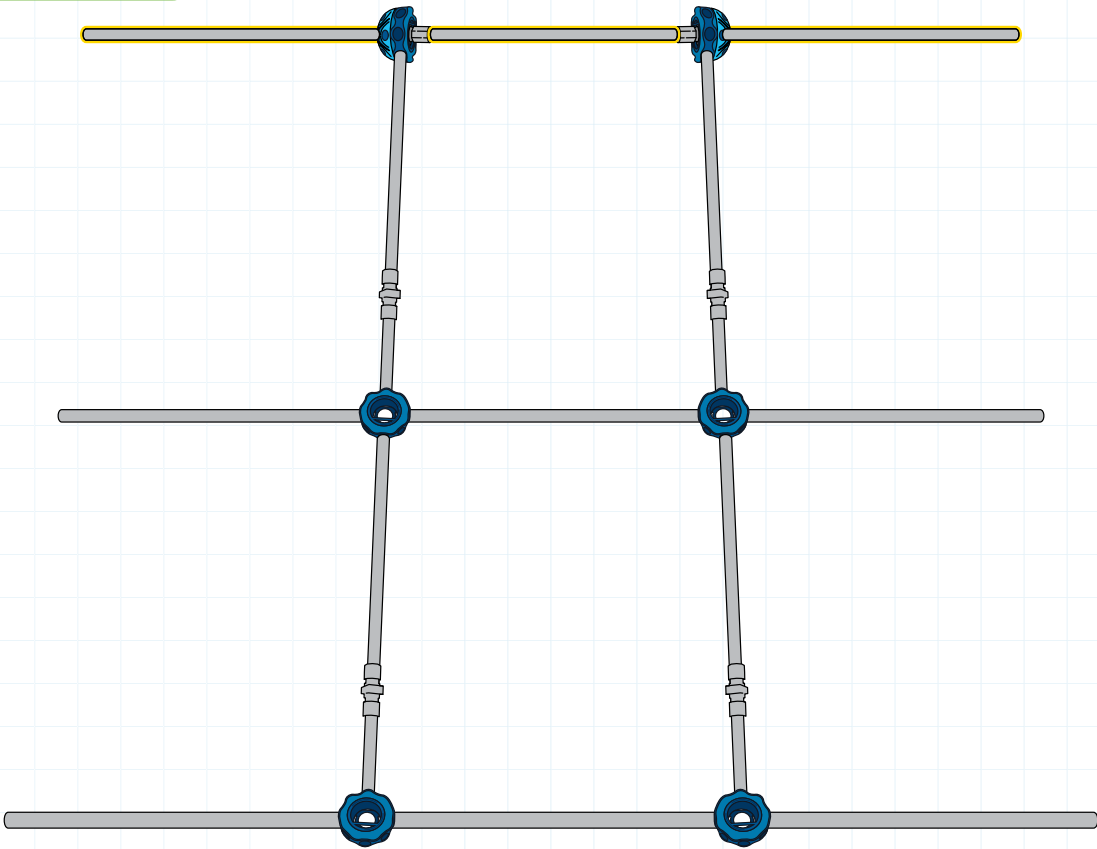


Let's Start Building!

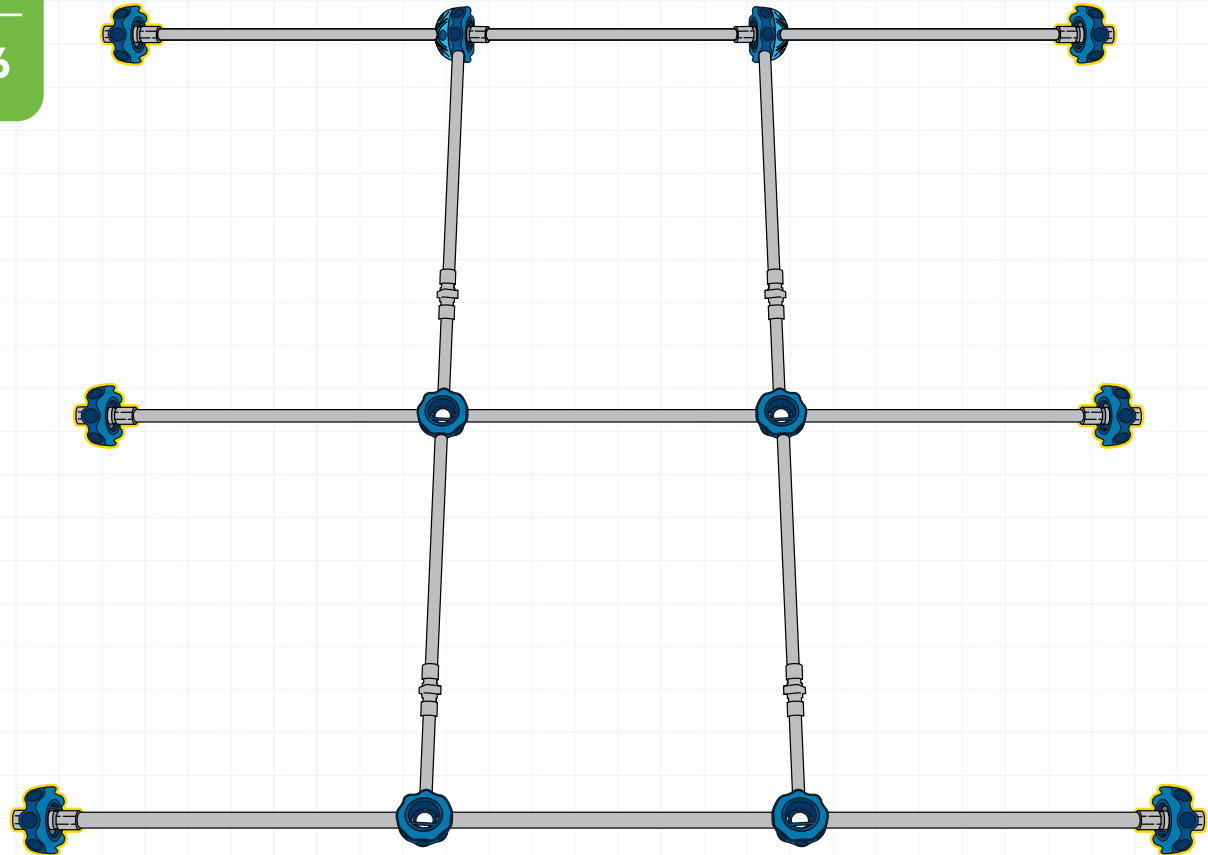


-  x2
-  x2
-  x2

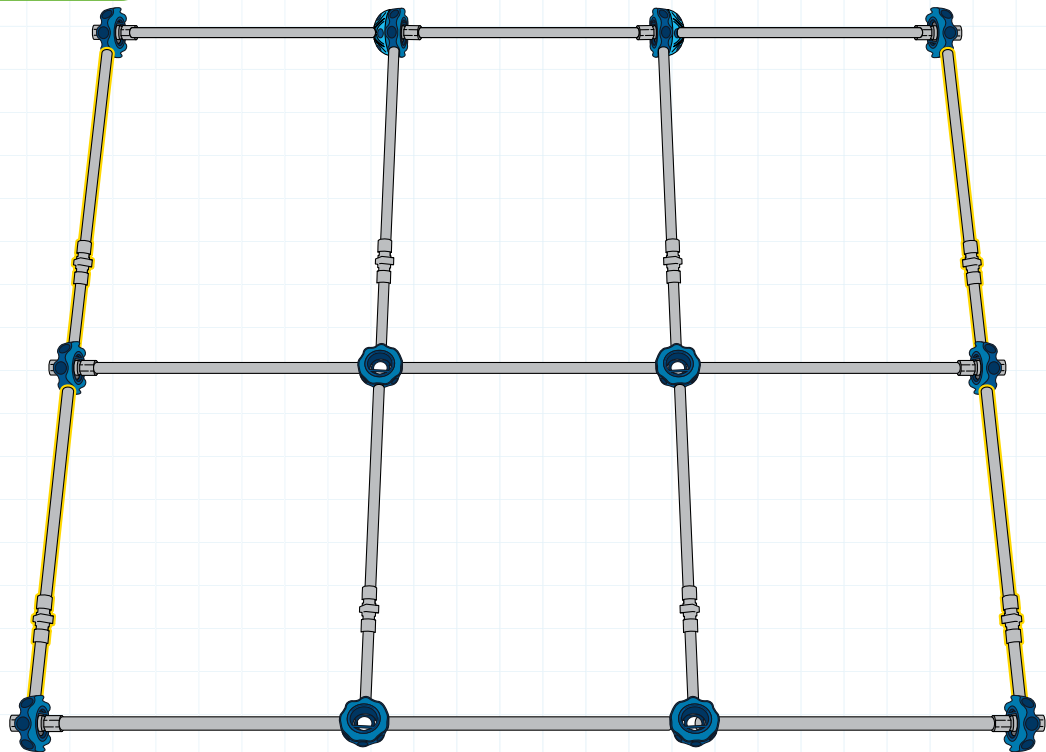



x3


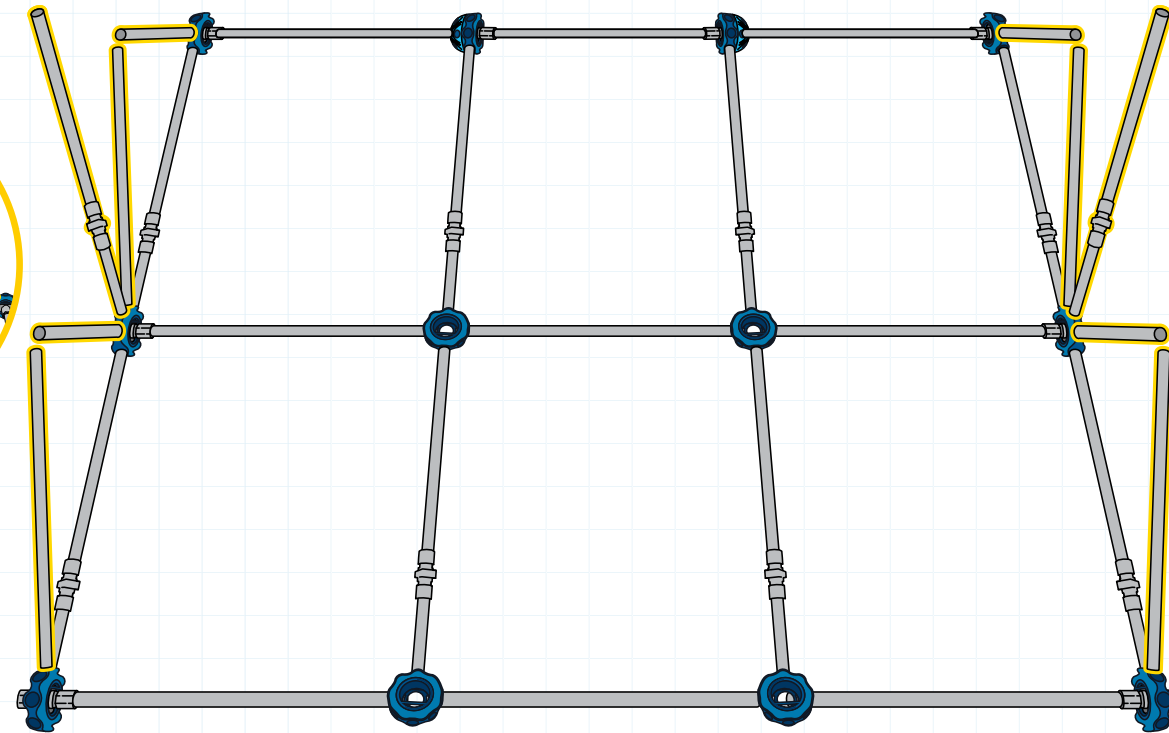
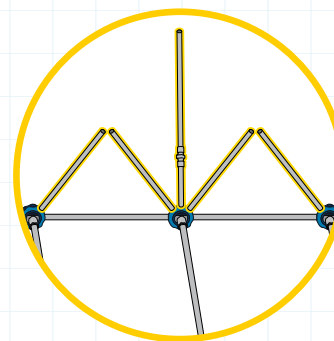
x6


x6


	x4
	x4
	x4

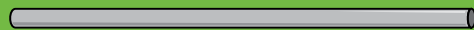
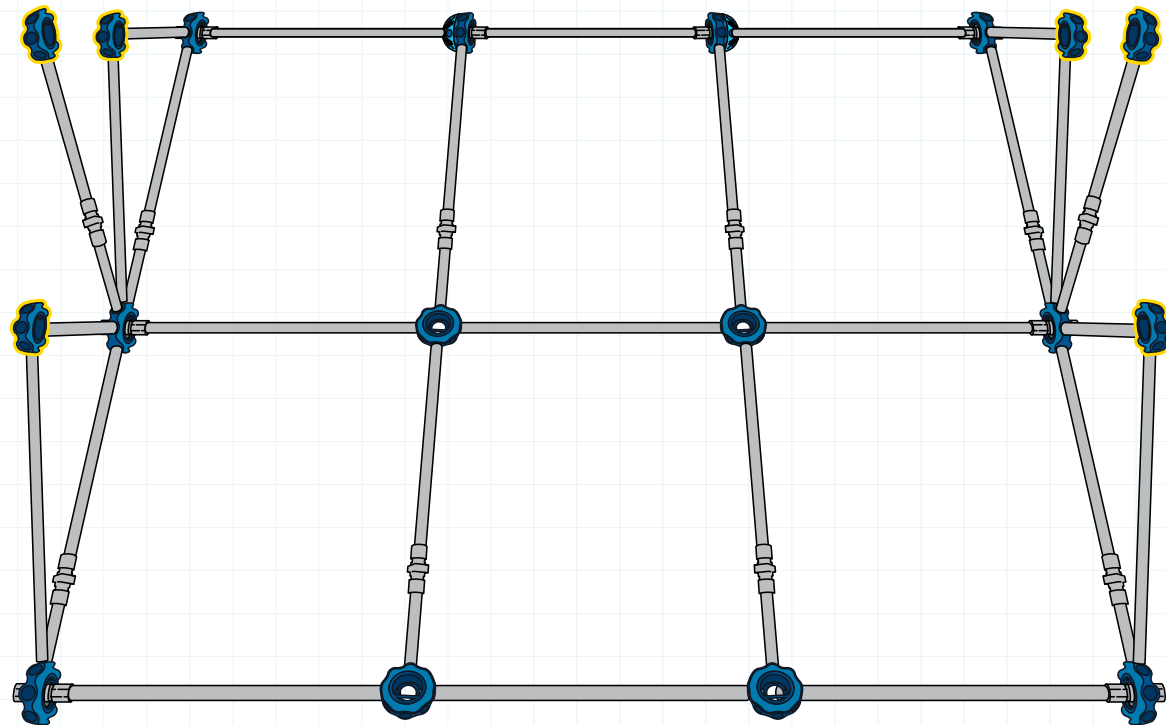
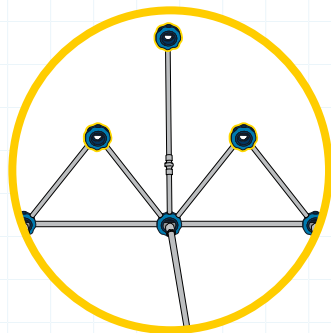


	x10
	x2
	x2

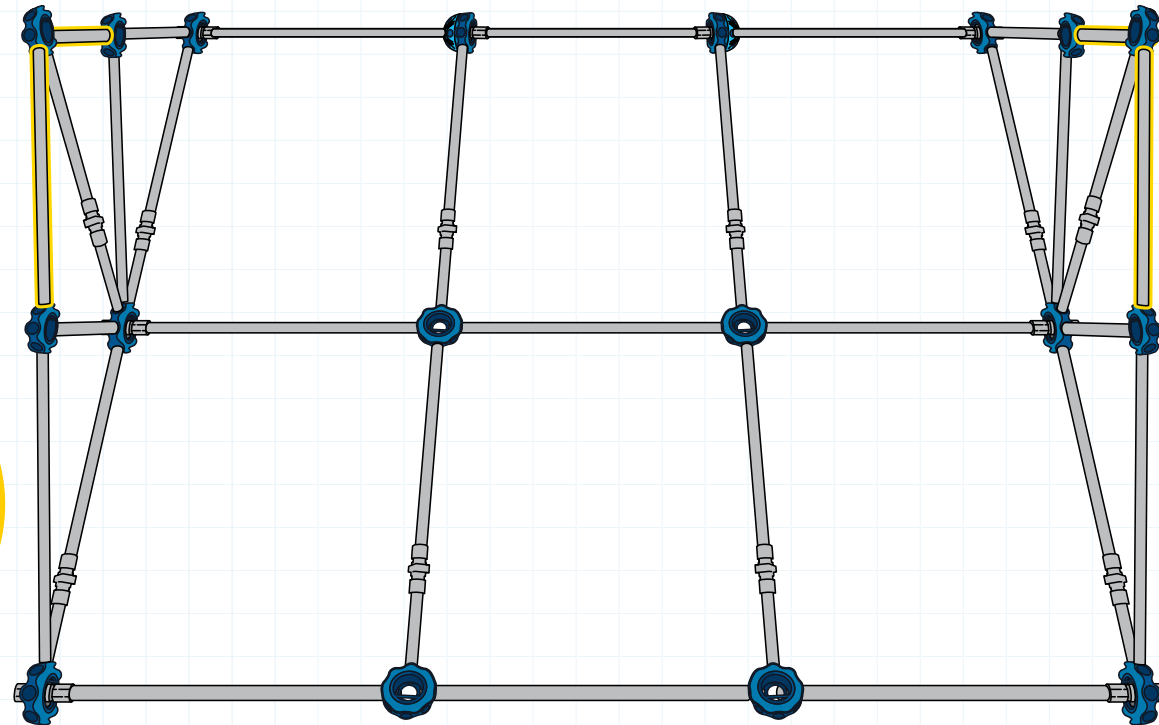
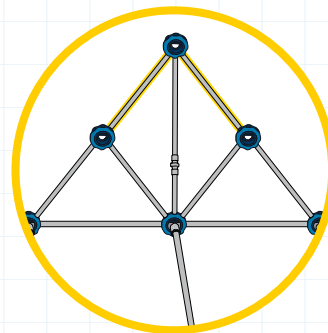


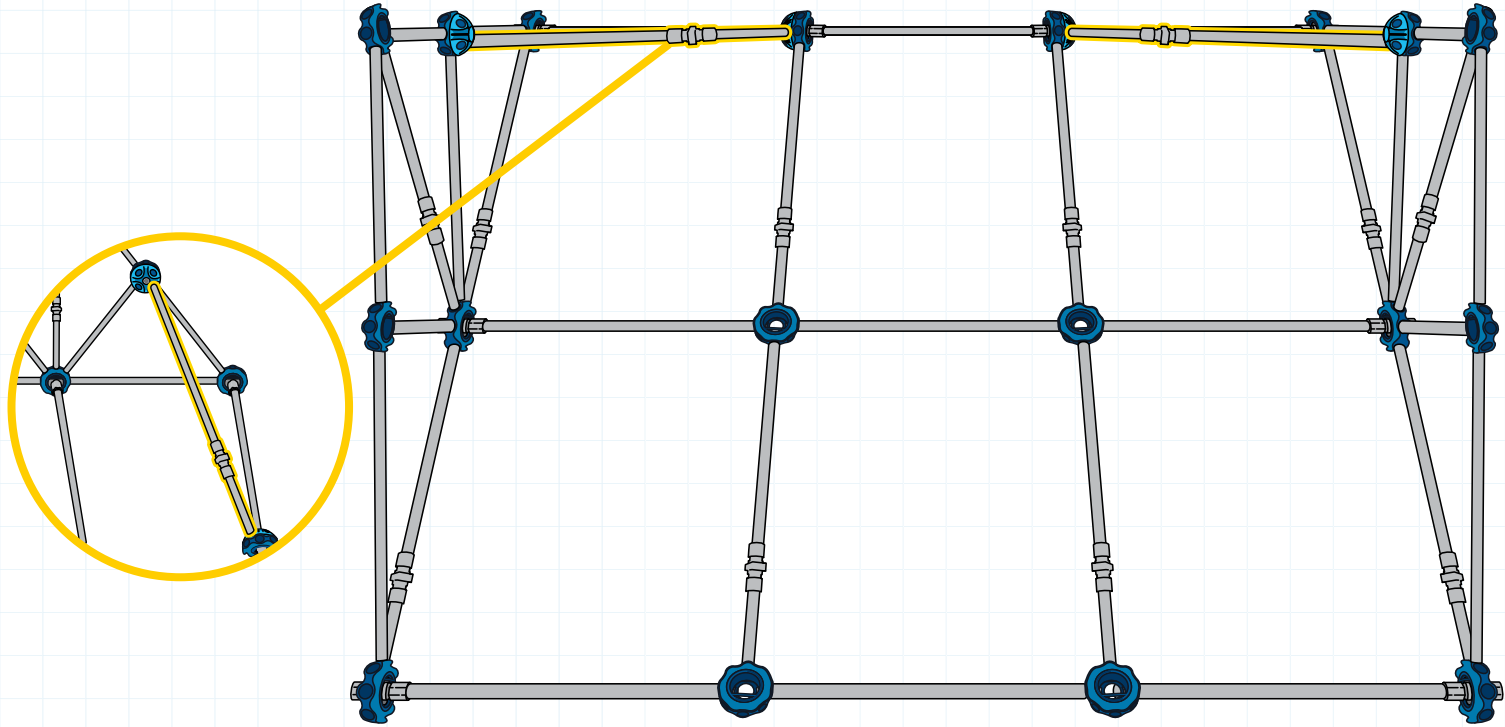
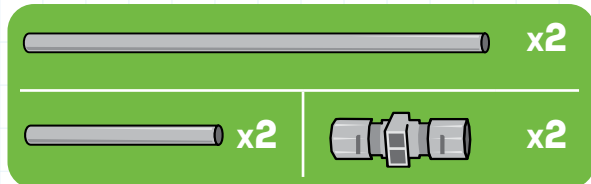
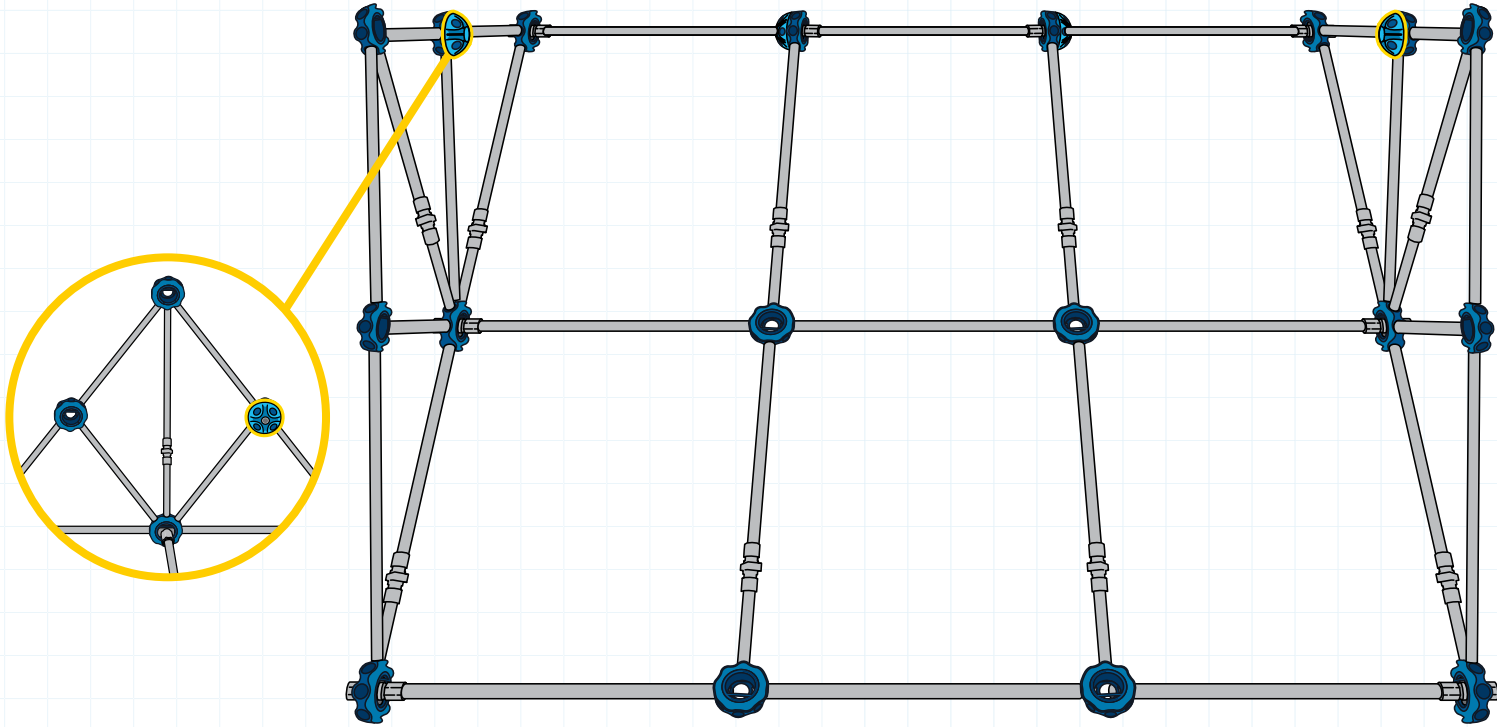
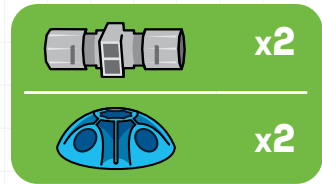


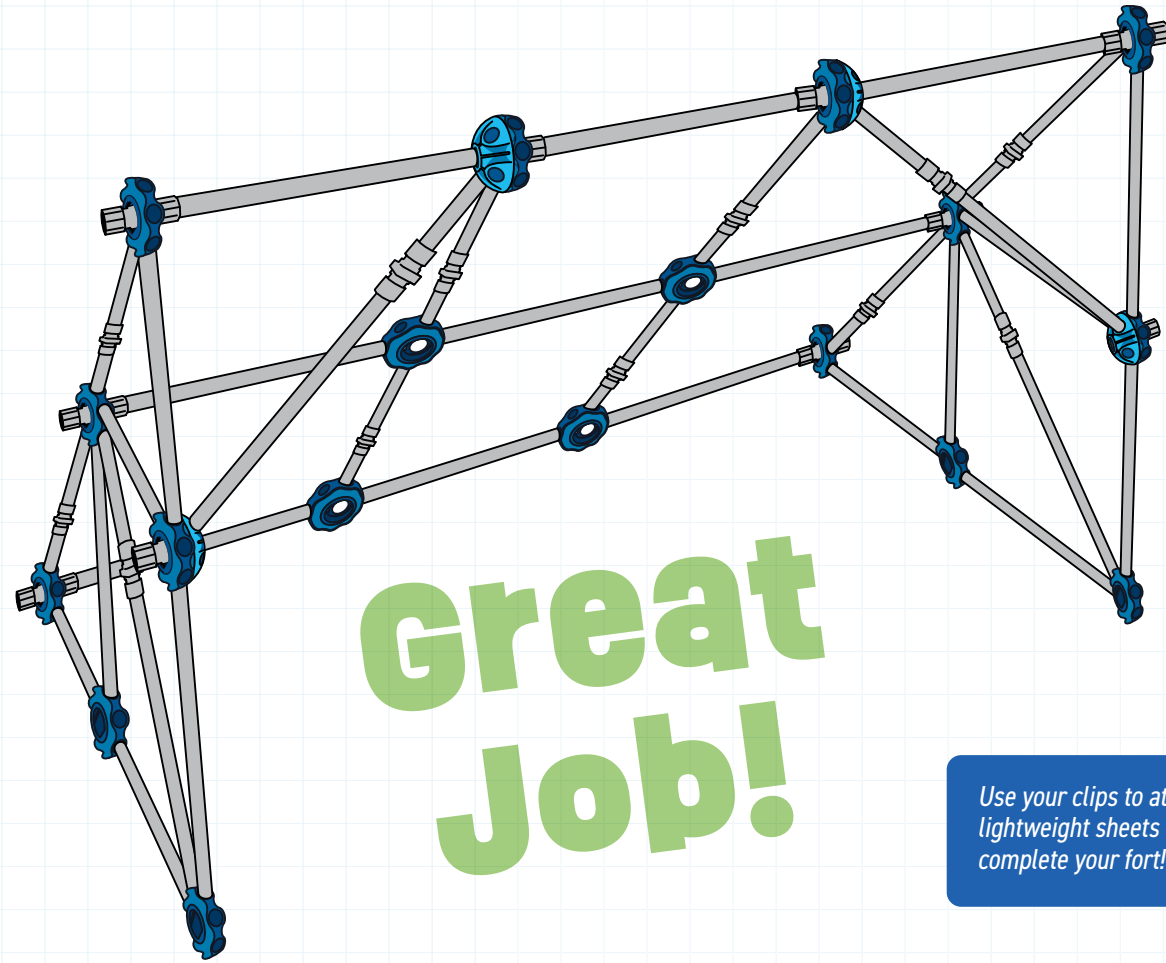
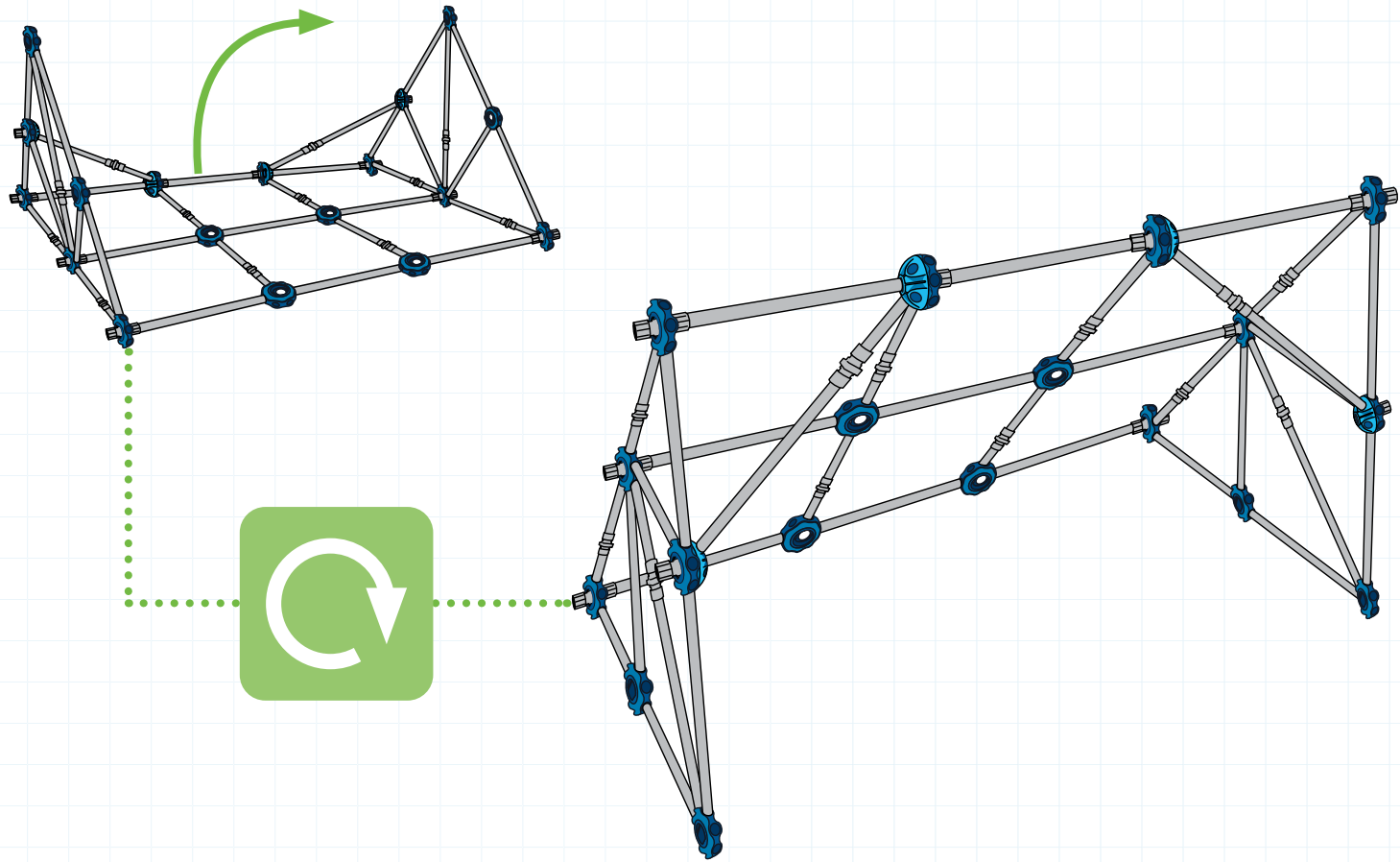
x6



x4





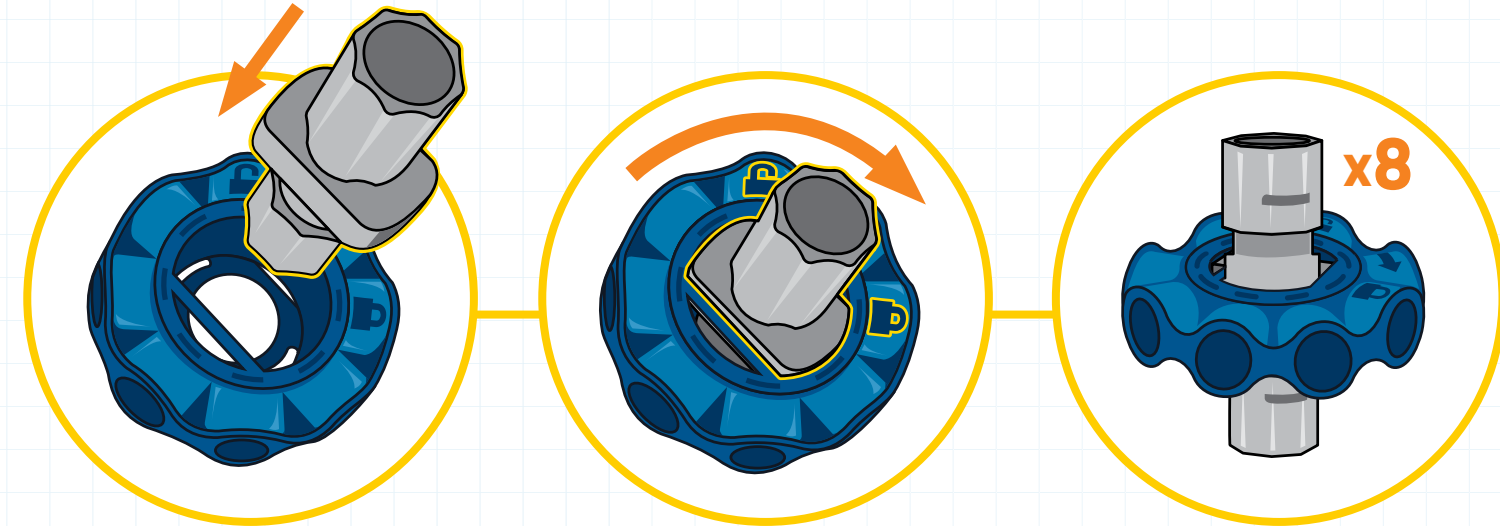
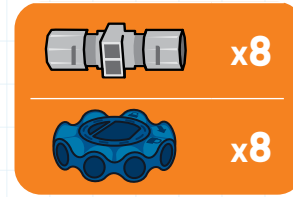
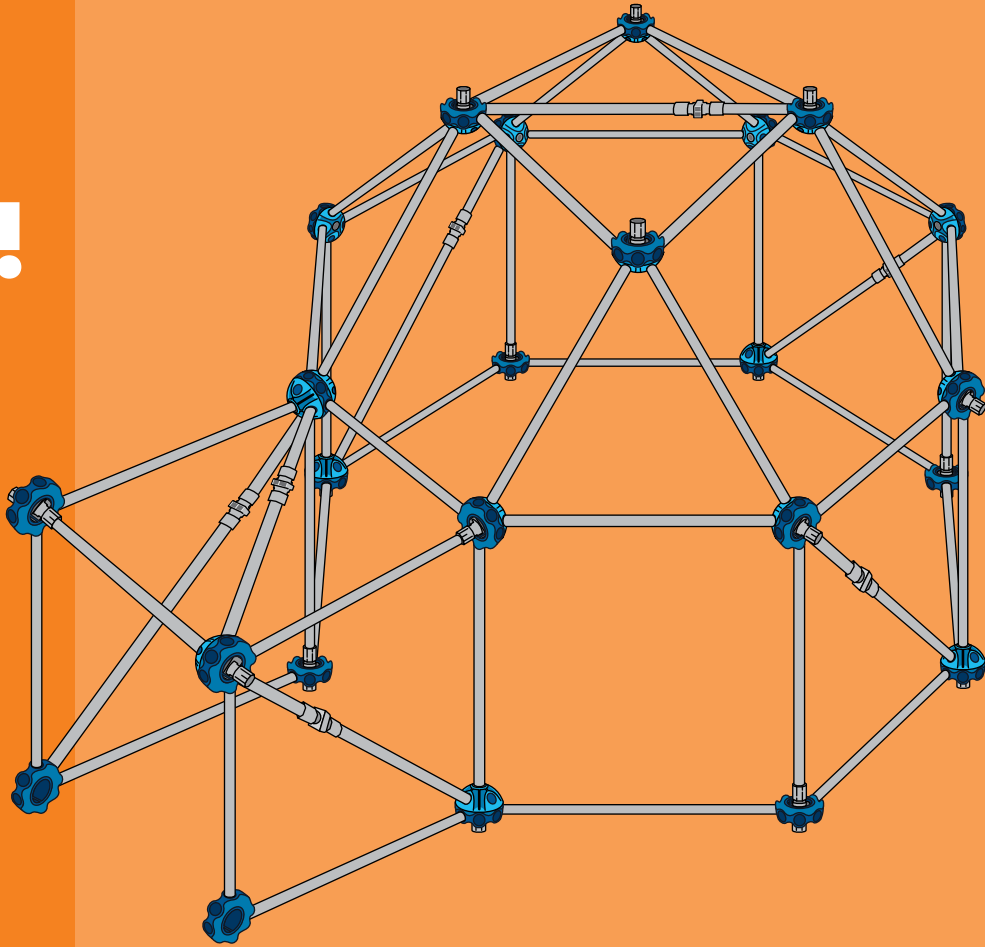


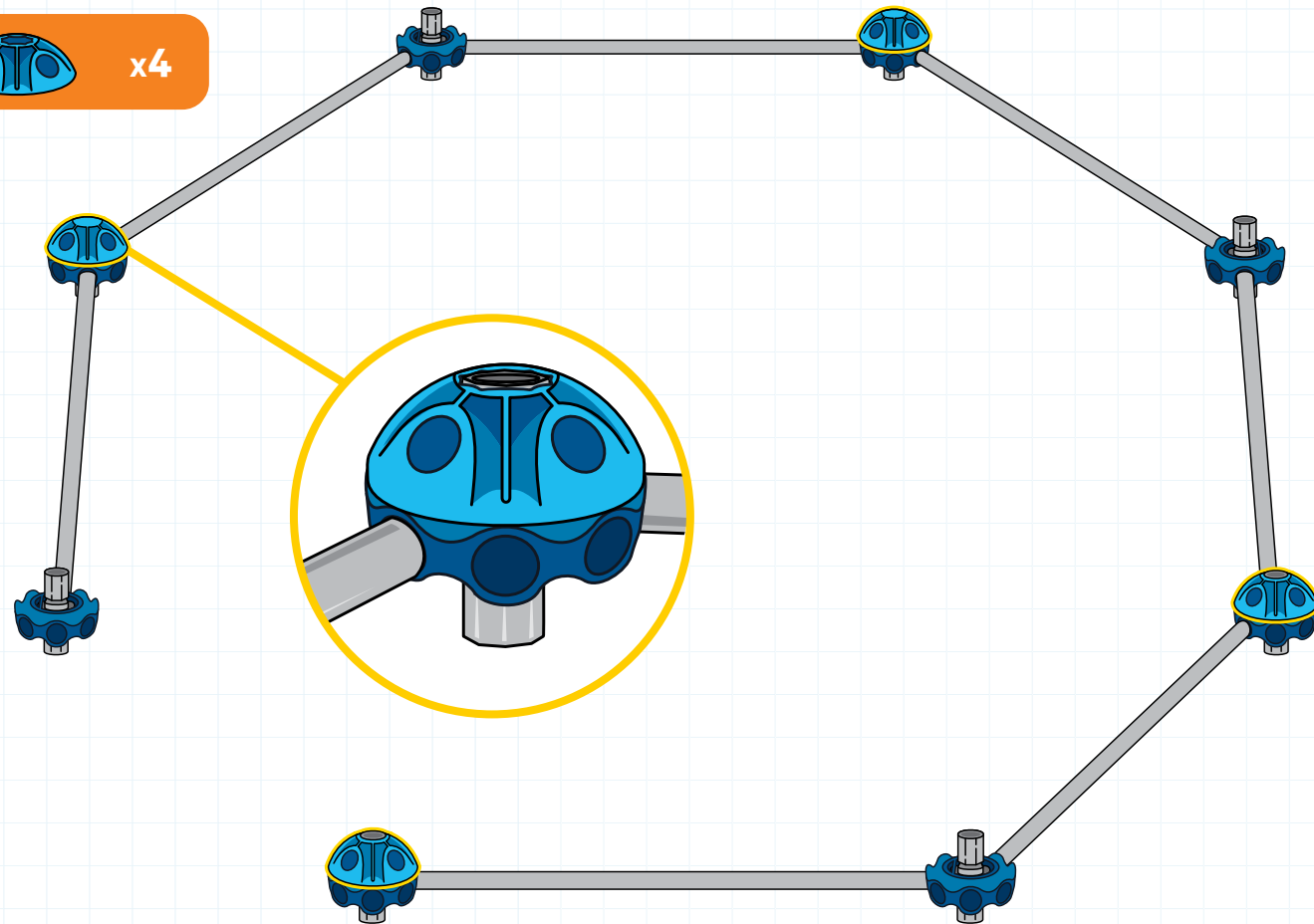
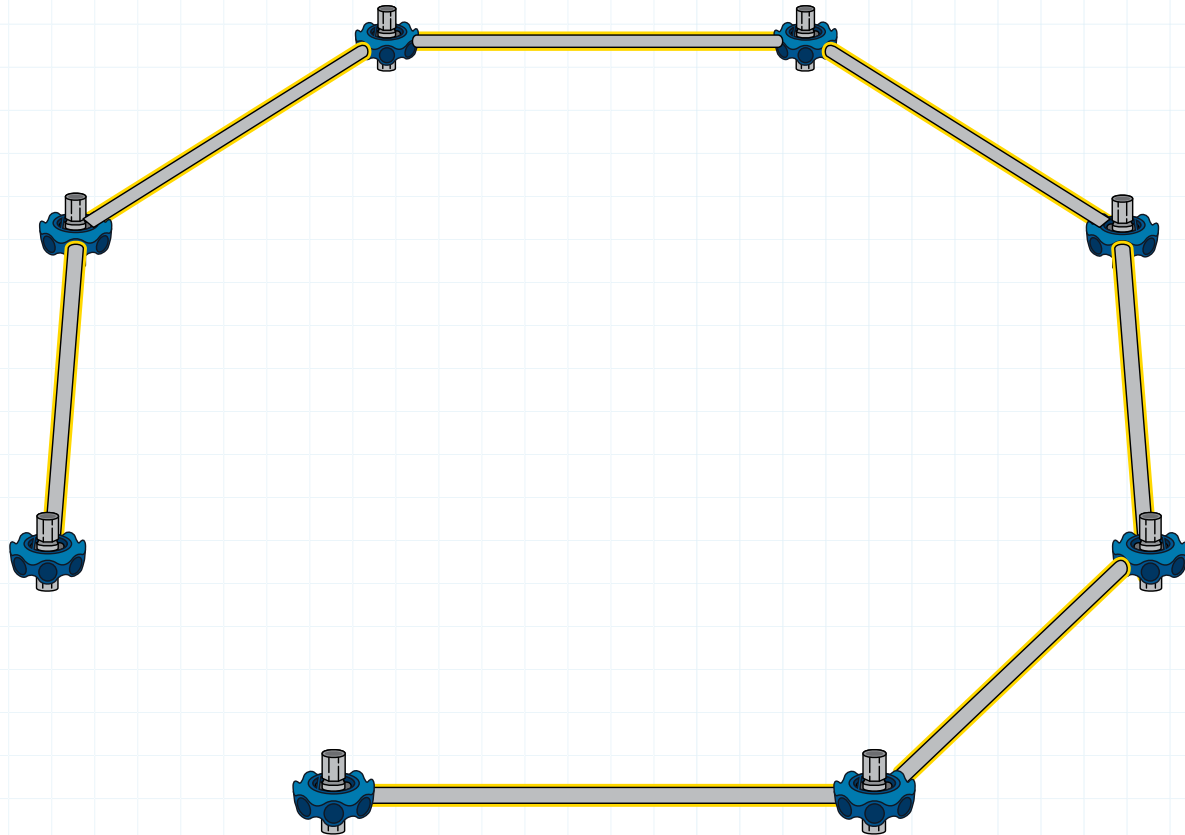
Great
Job!

Use your clips to attach
lightweight sheets to
complete your fort!

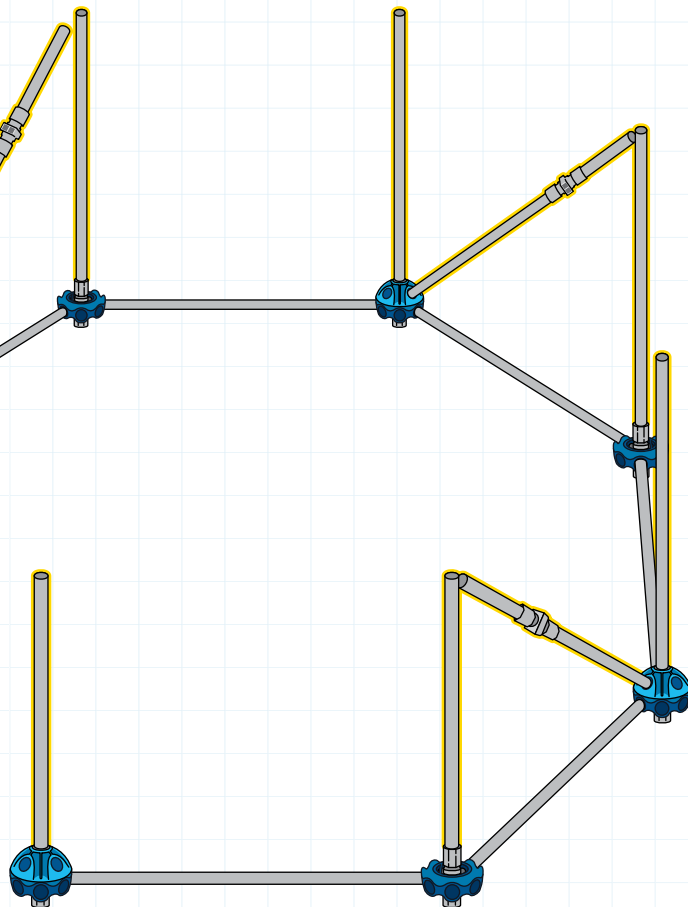
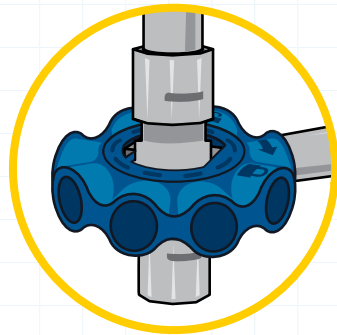
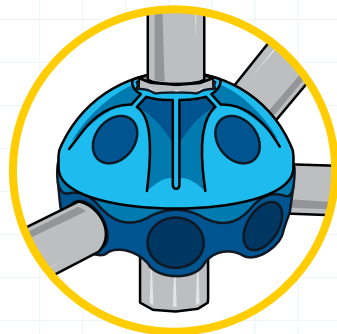


Let's Start Building!

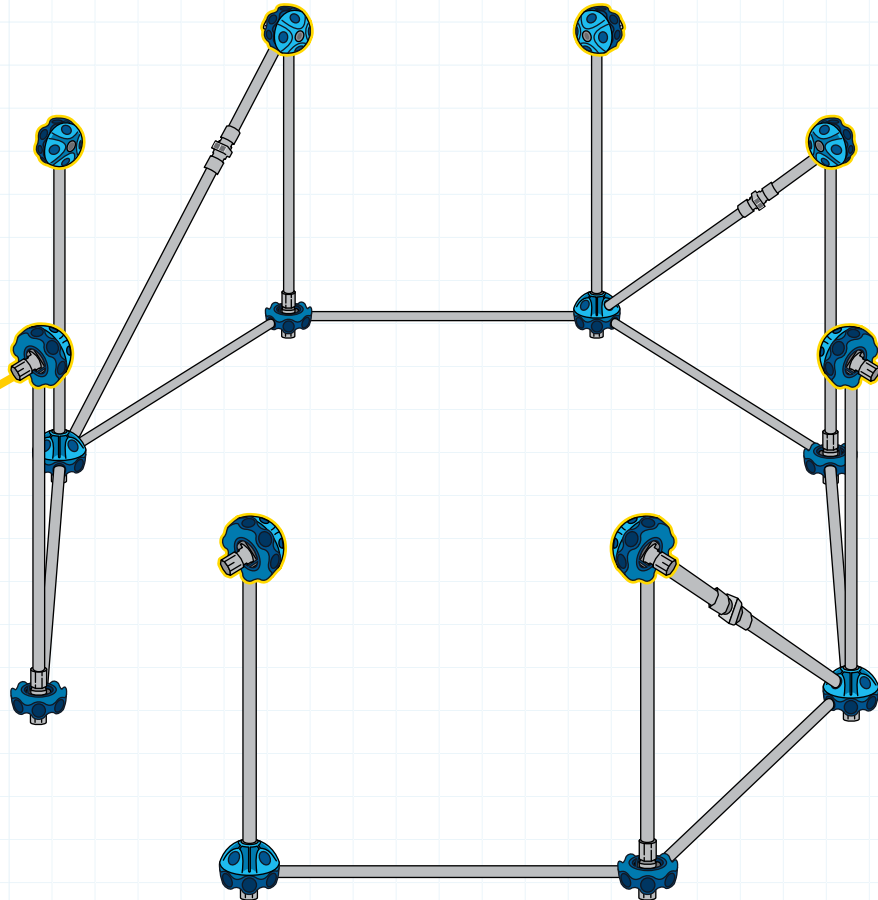
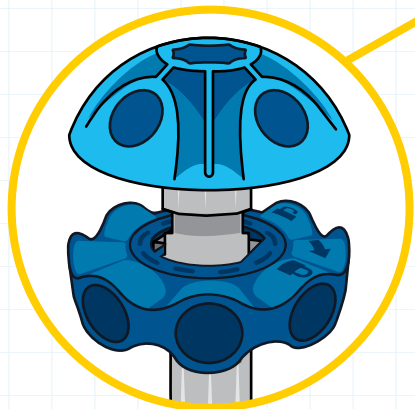


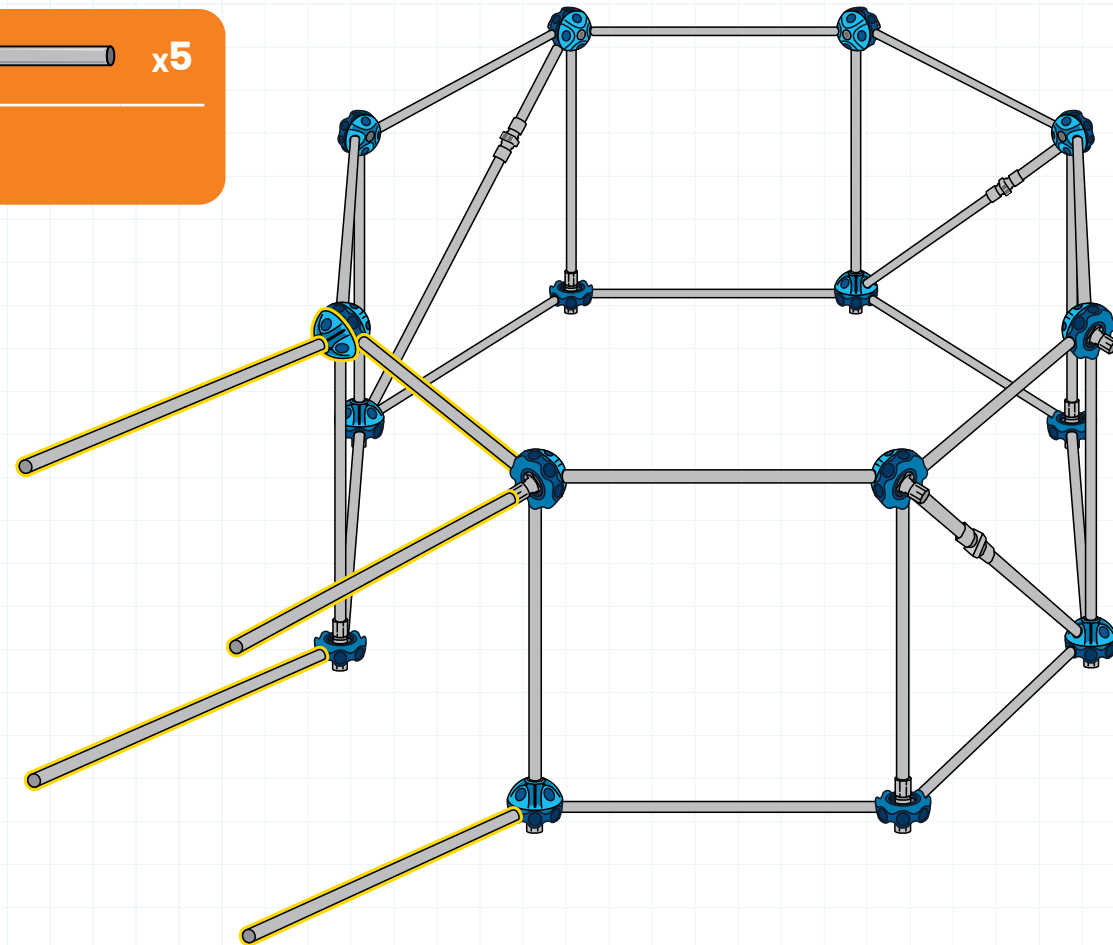
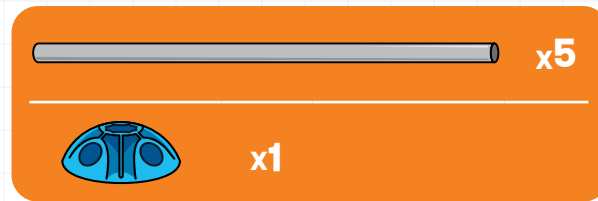
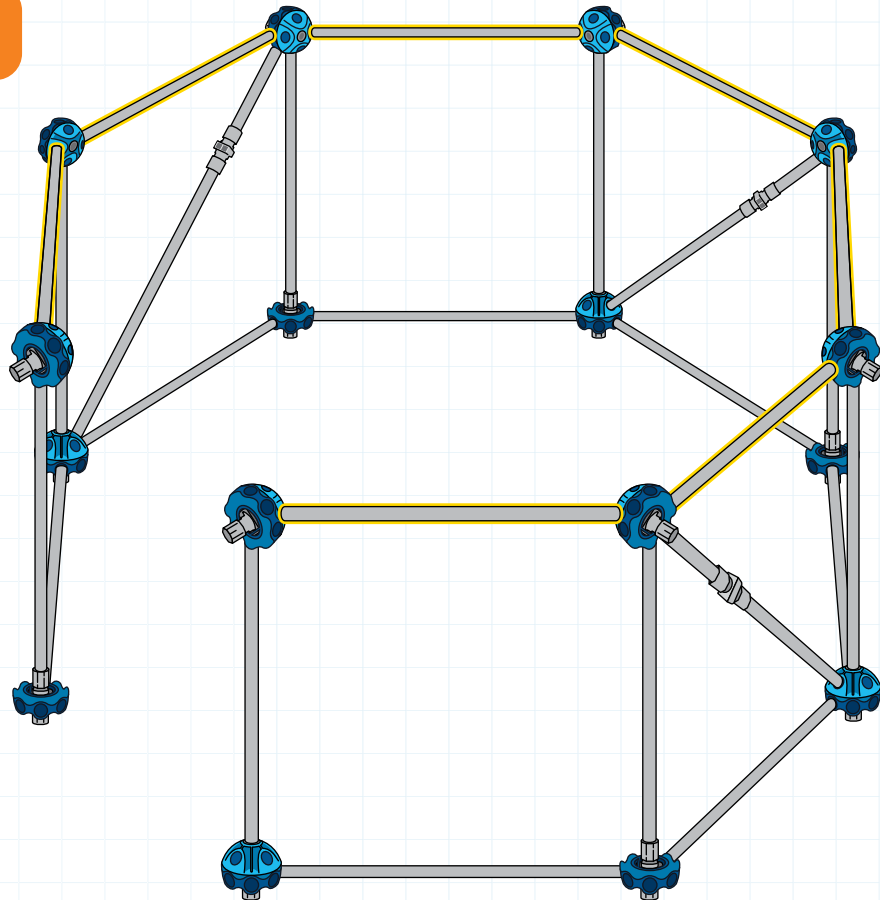
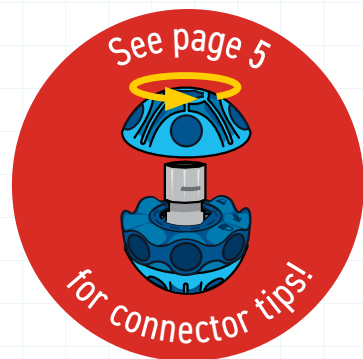


	x11
	x3
	x3

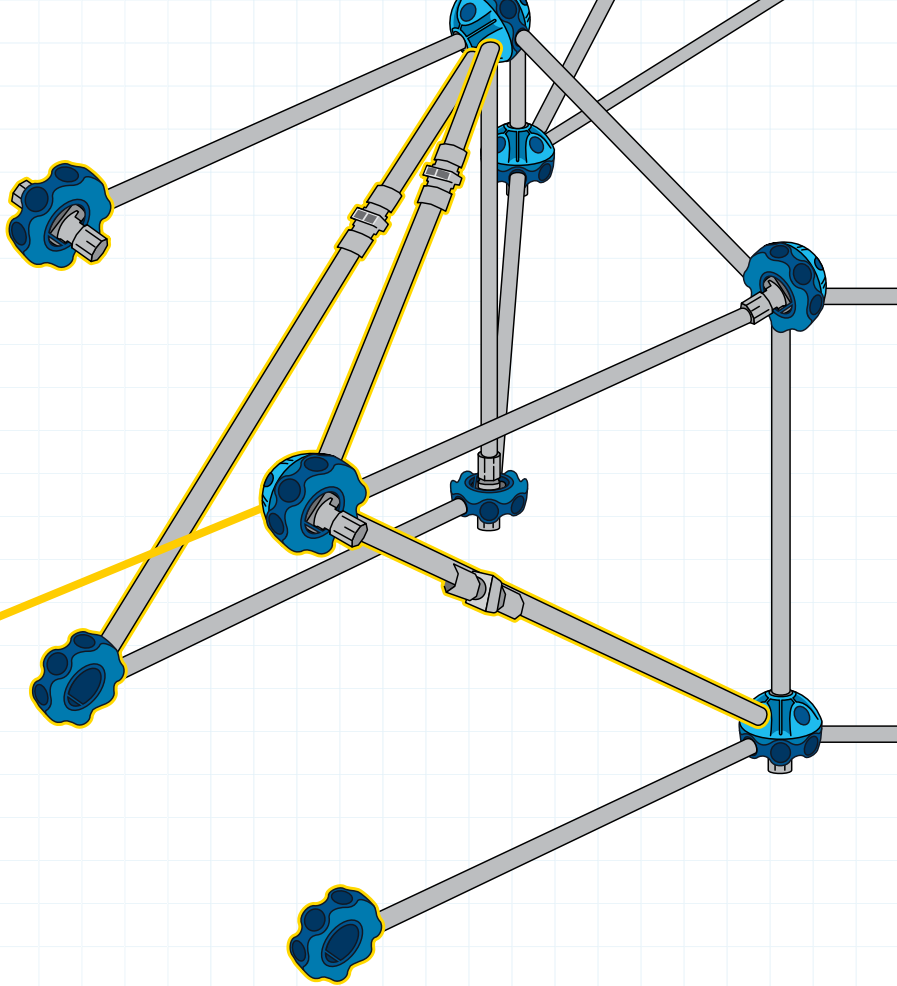
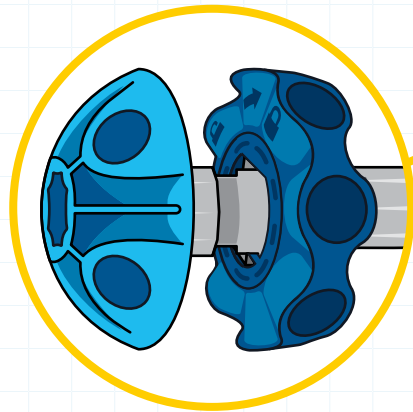


	x8
	x8
	x8

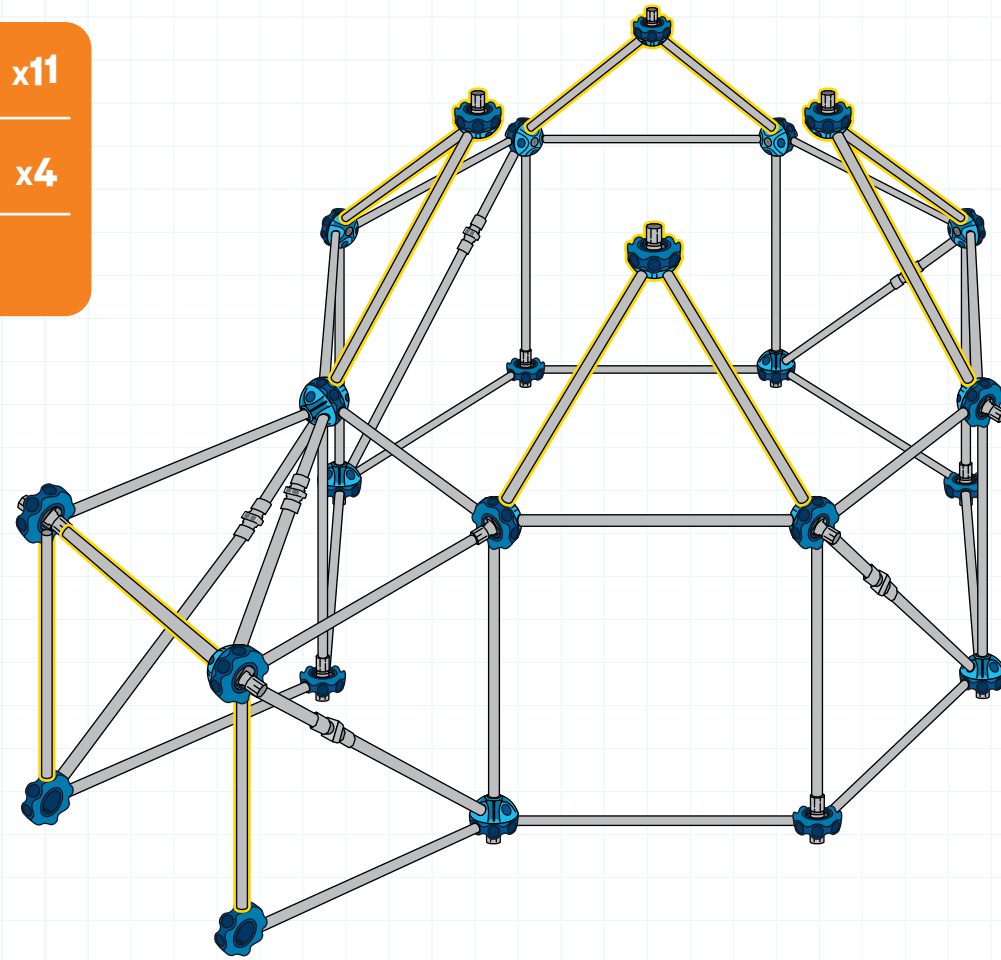


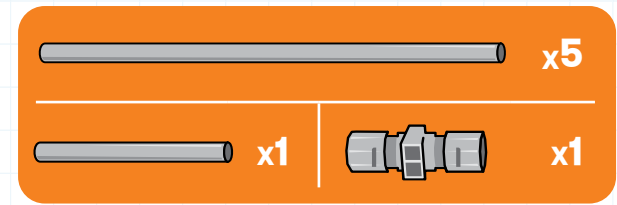


	x3
	x3
	x1
	x5
	x4

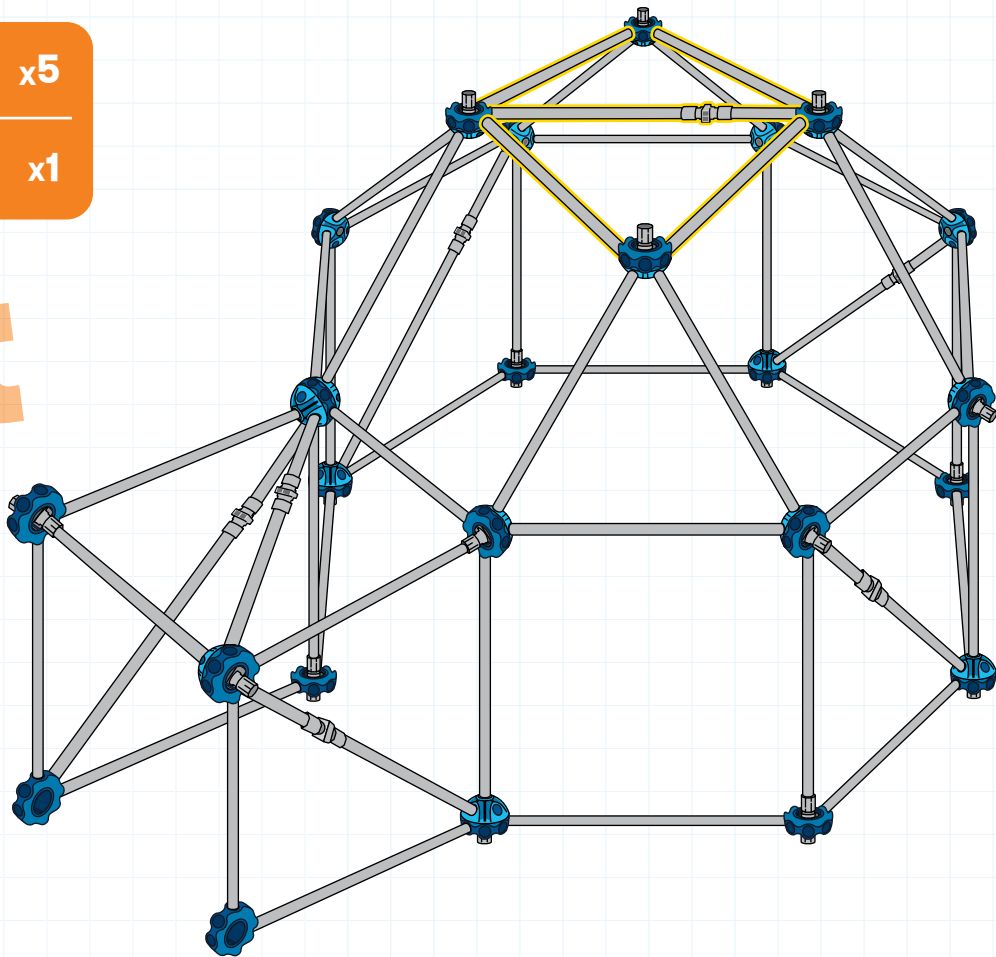


	x11
	x4
	x4
	x4

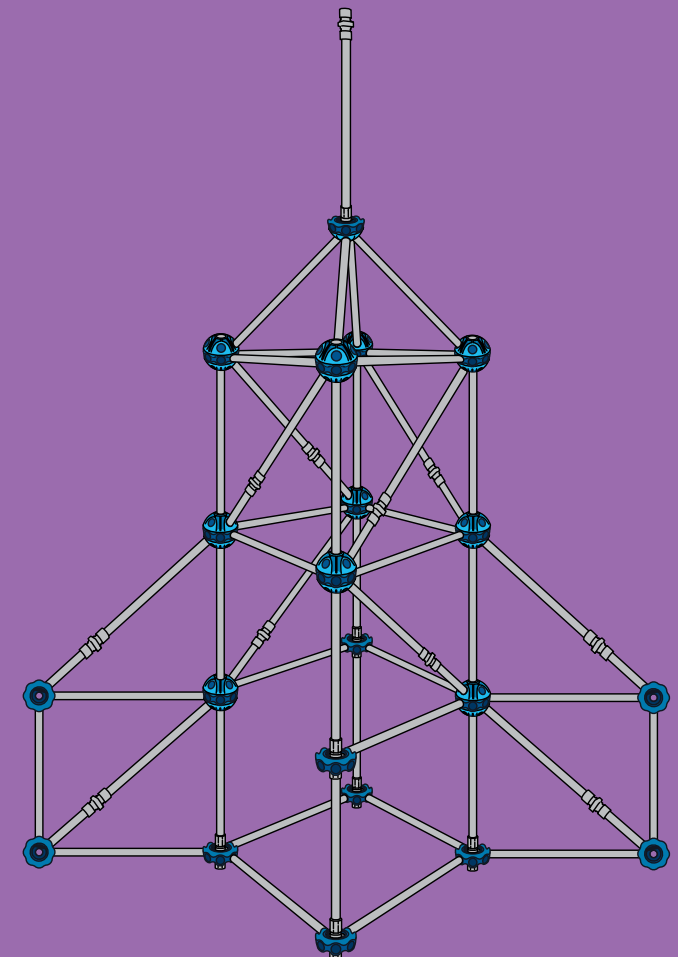


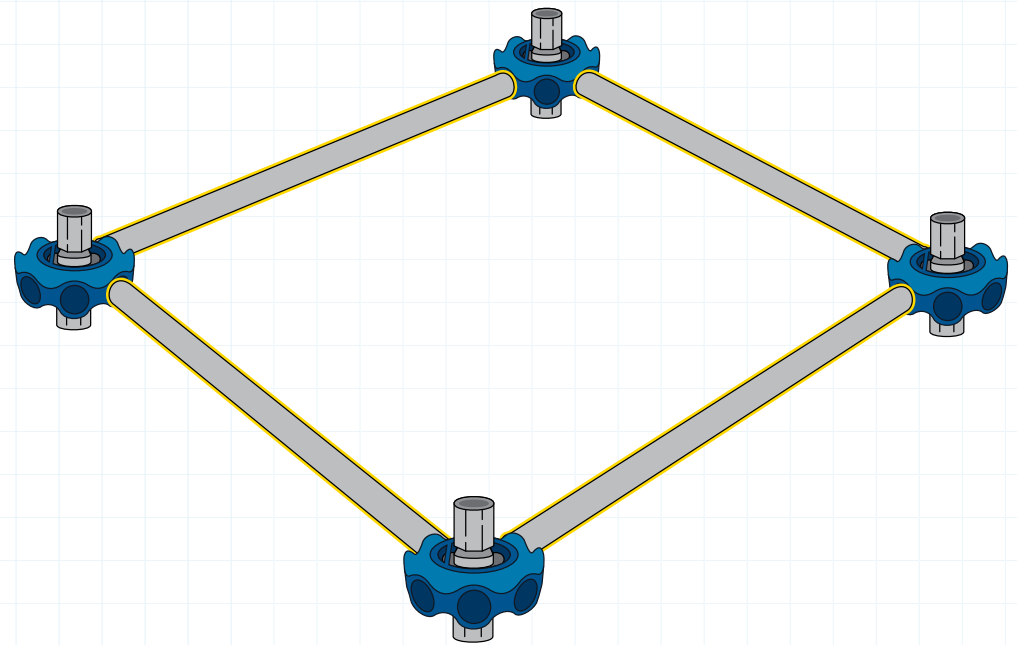
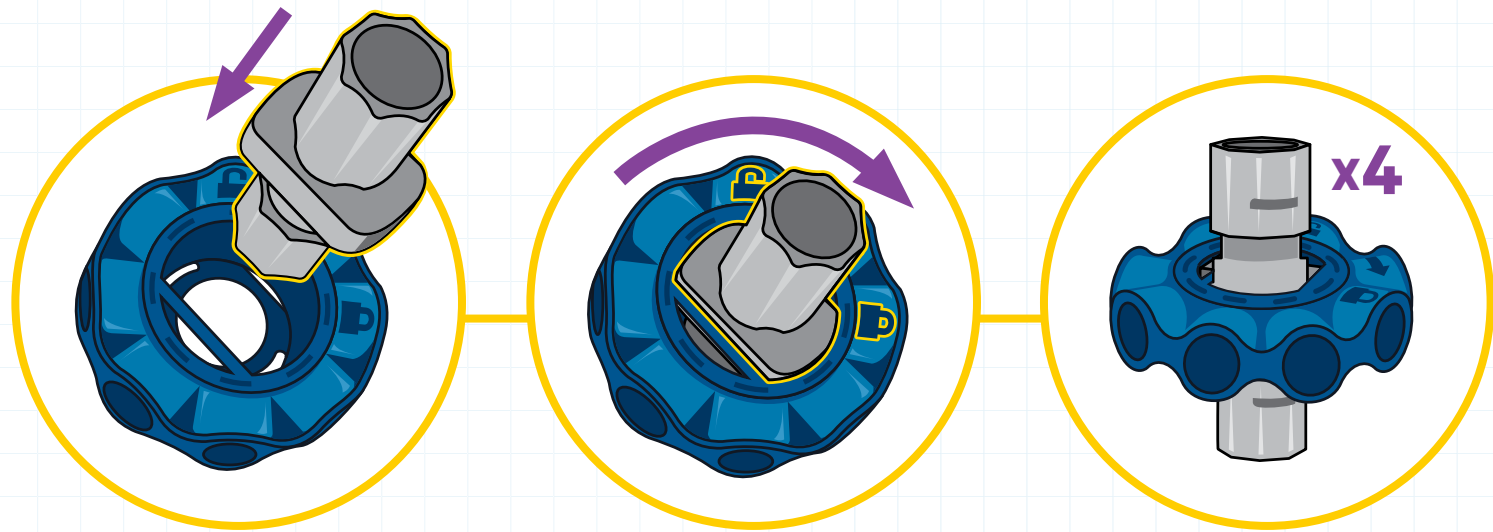
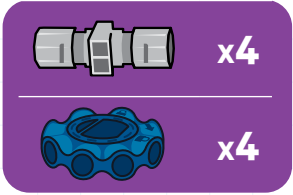


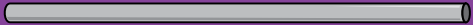
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Job!

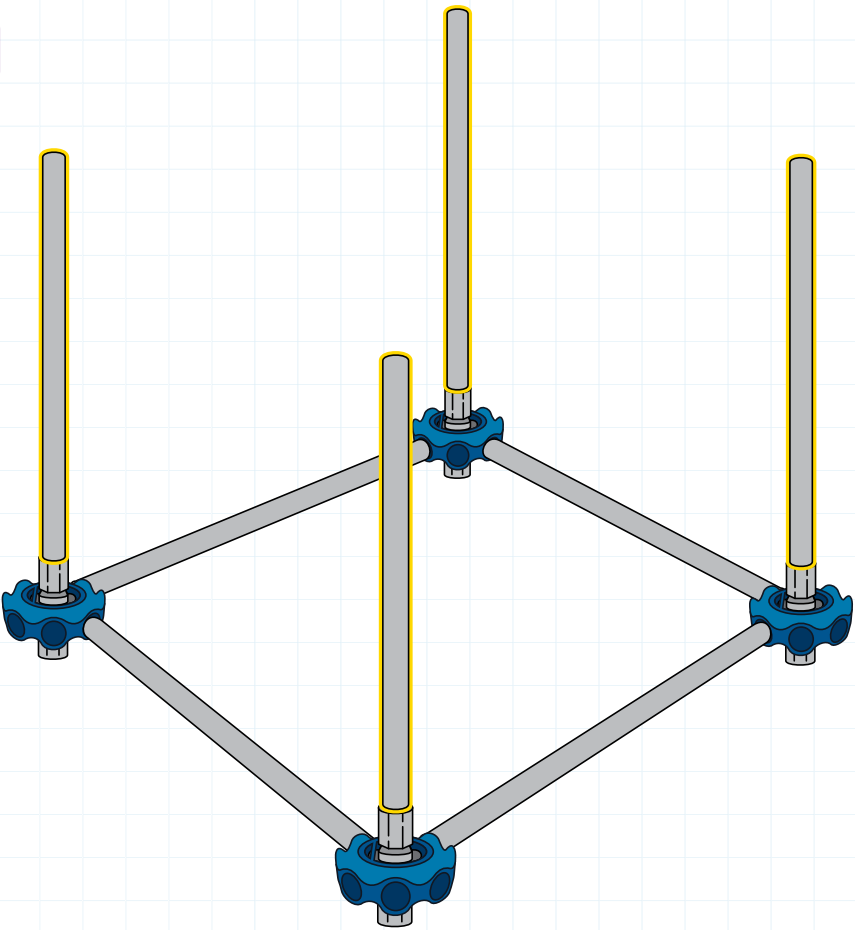


Let's
Start
Building!

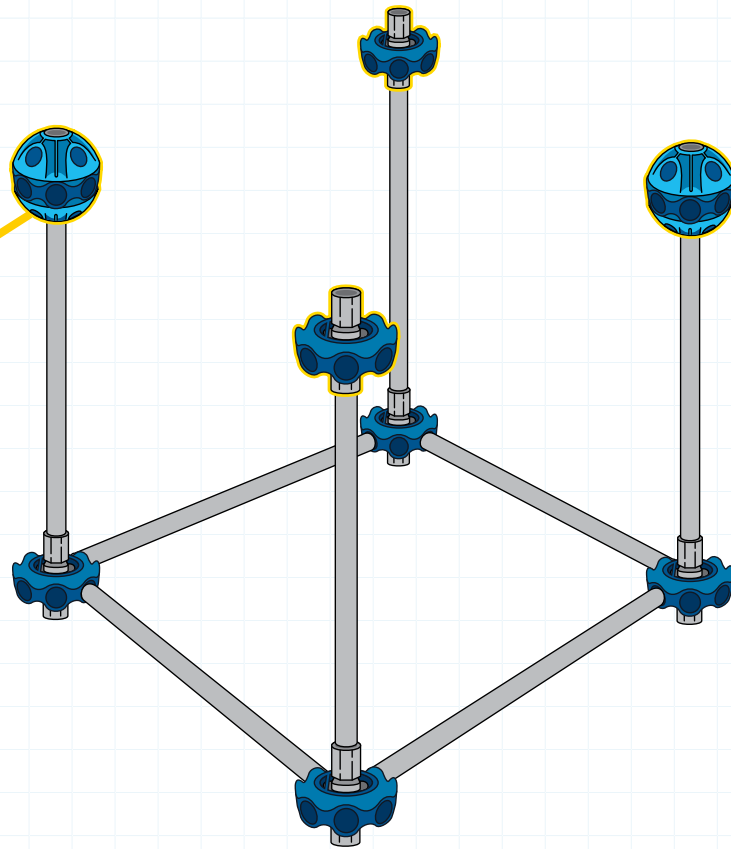
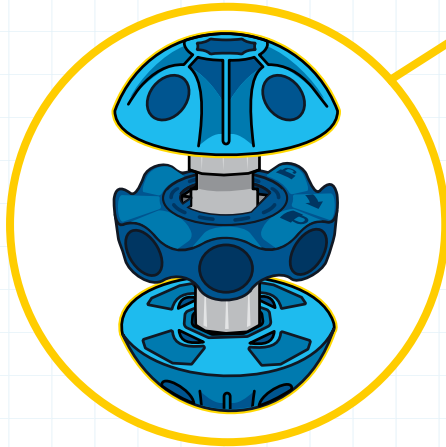




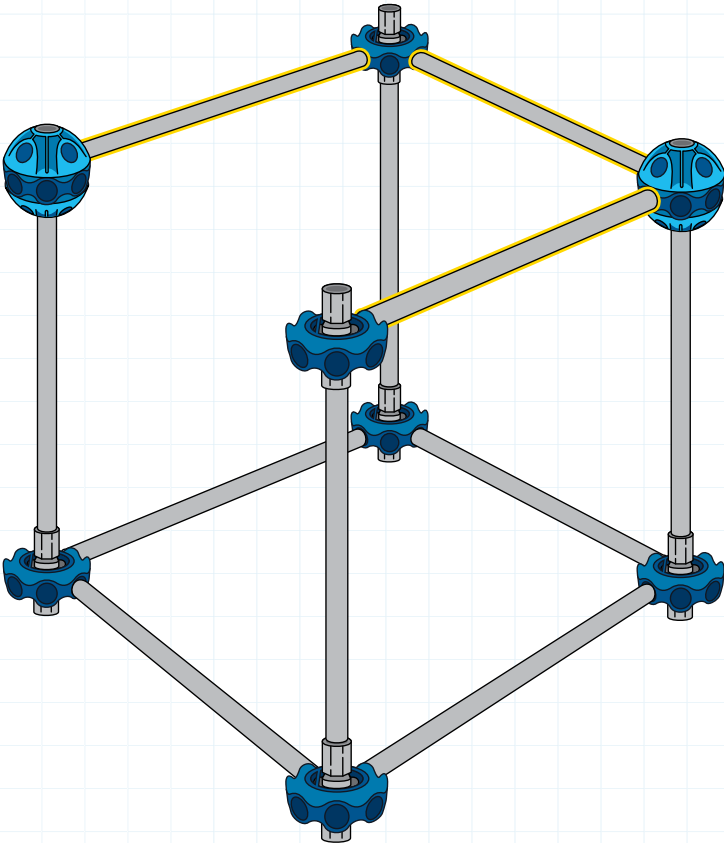
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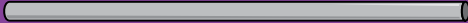


	x4		x4
	x4		



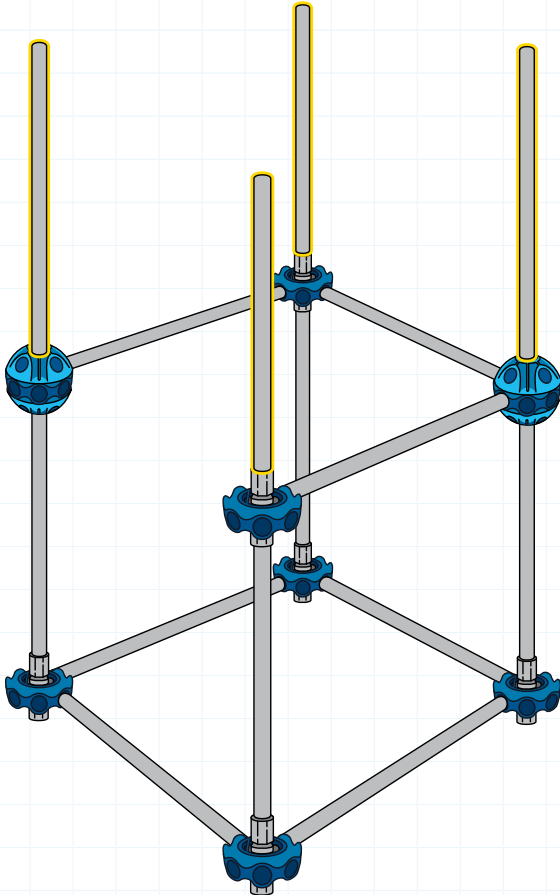

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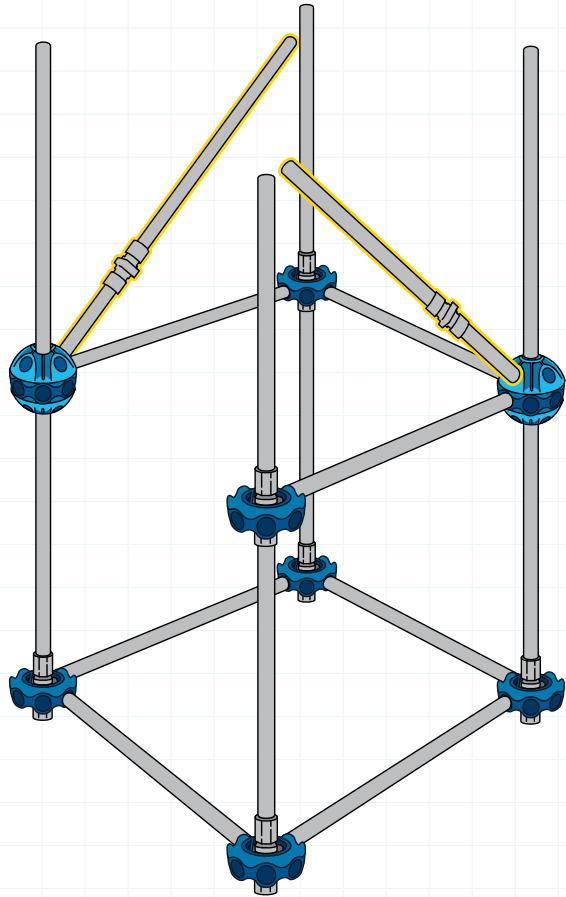
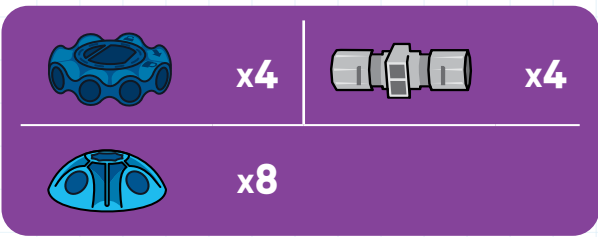
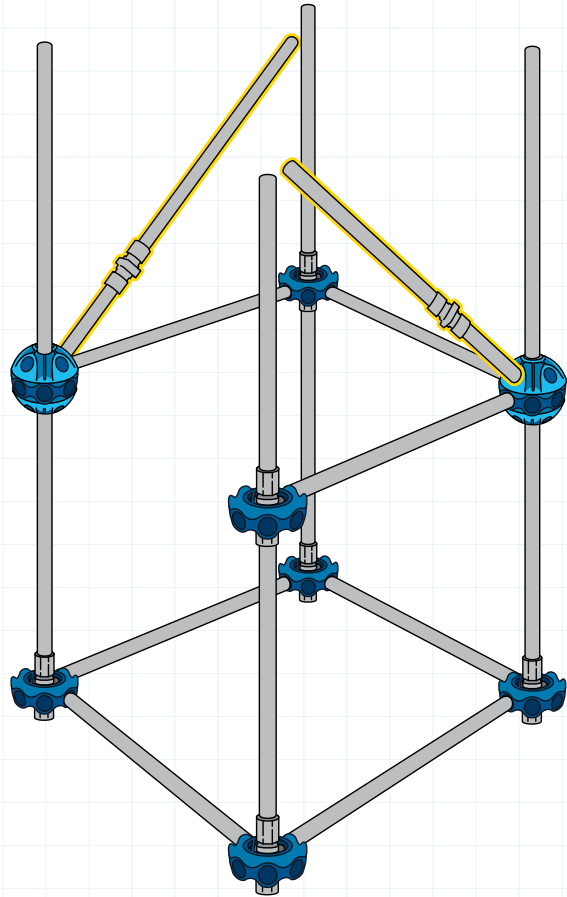


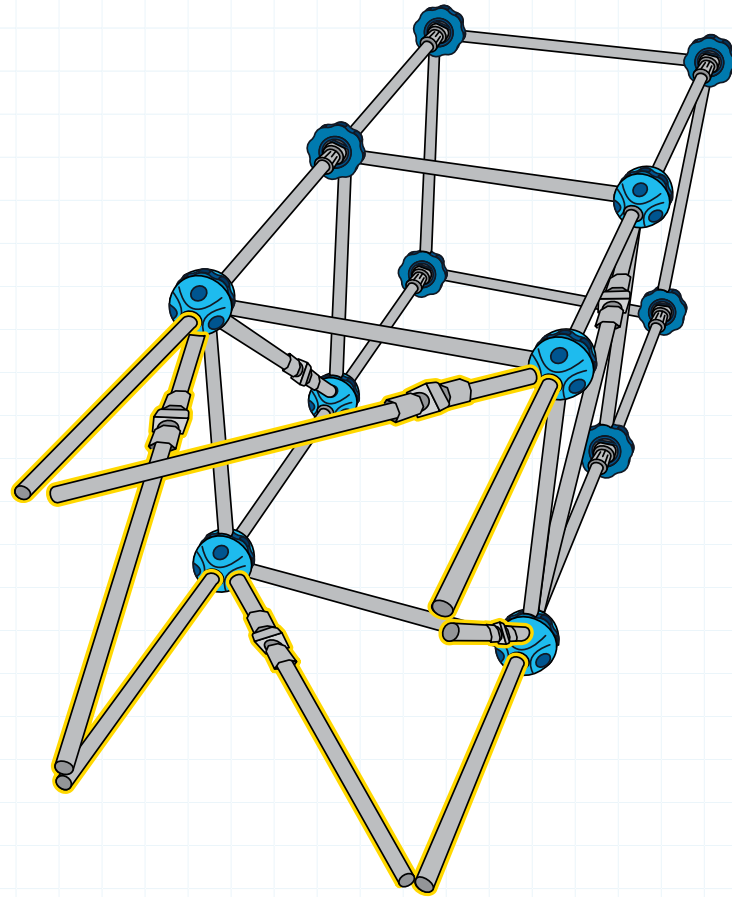
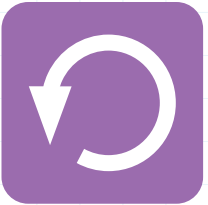
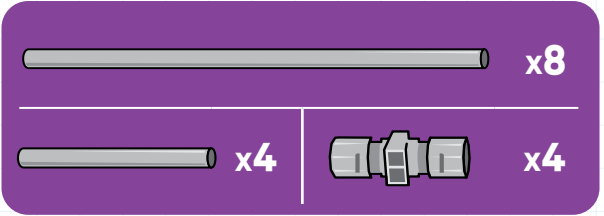
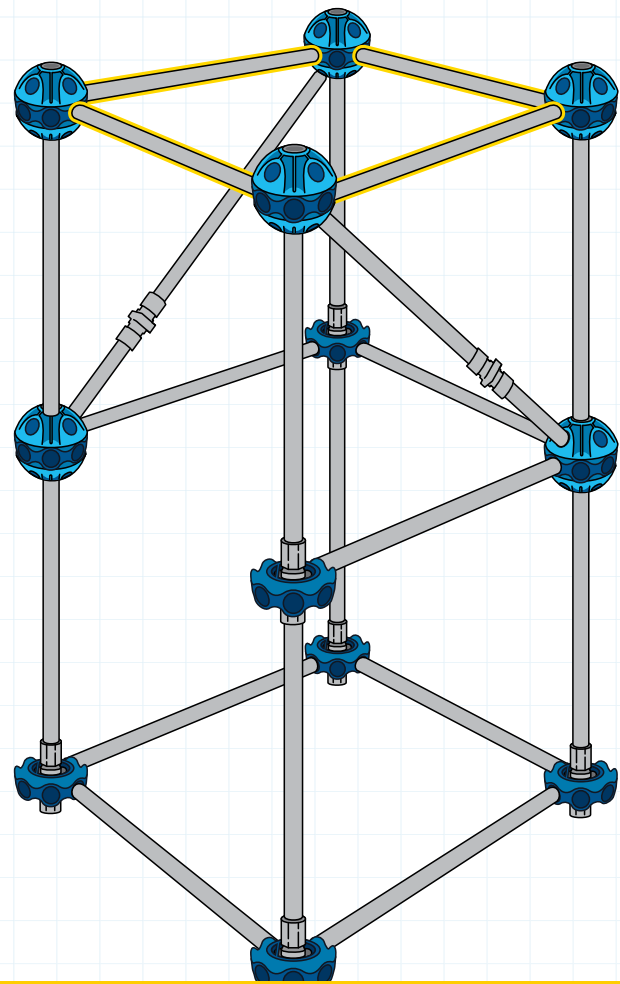

x2


x2


x2









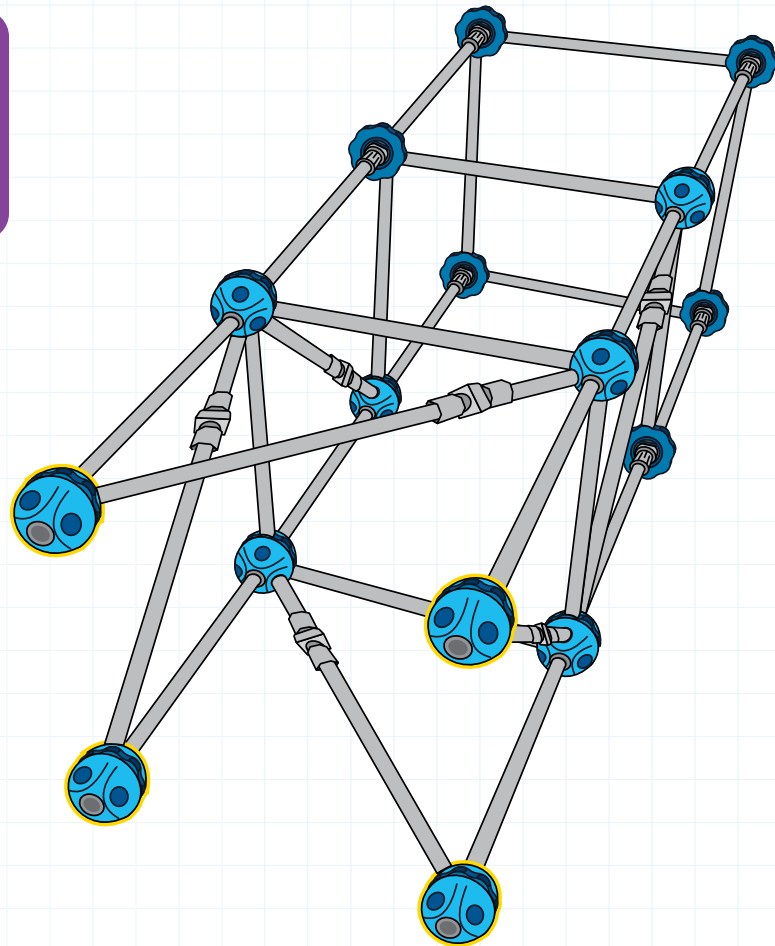
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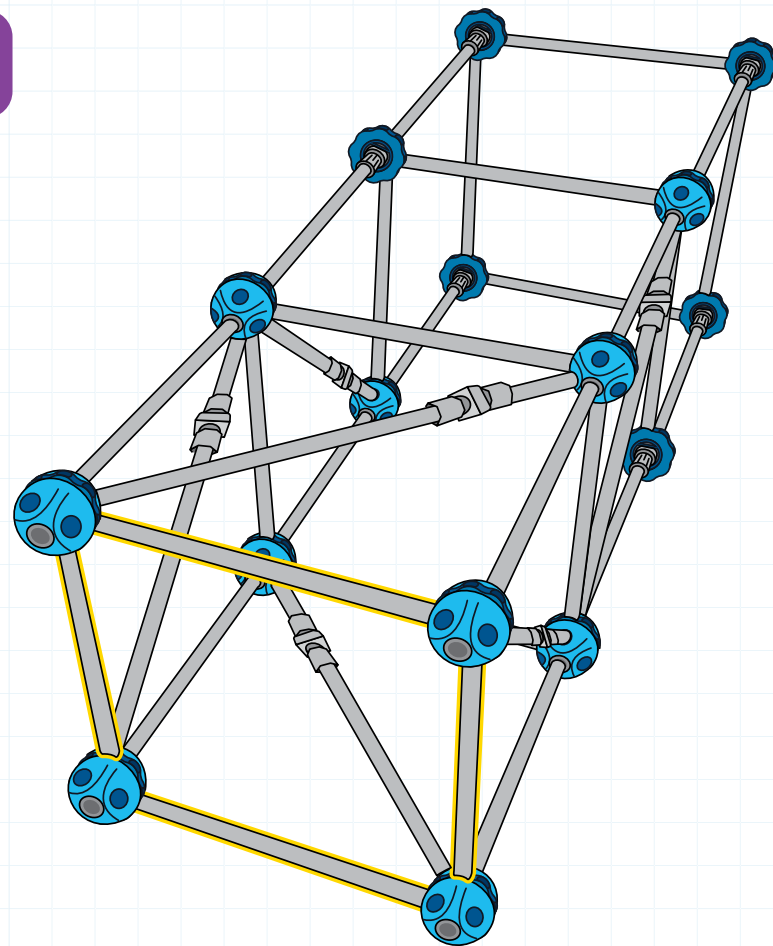
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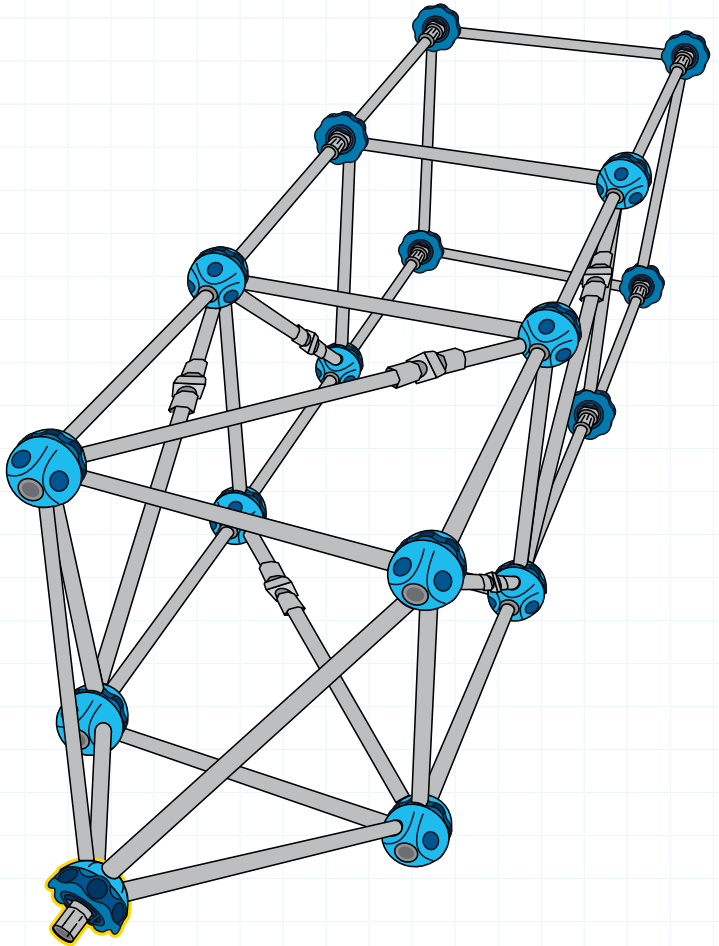
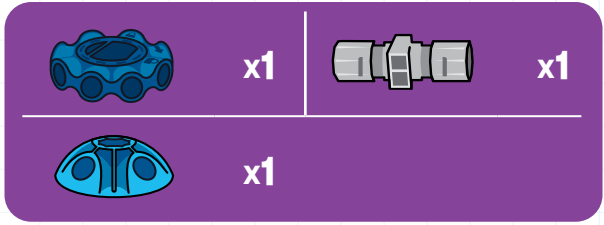
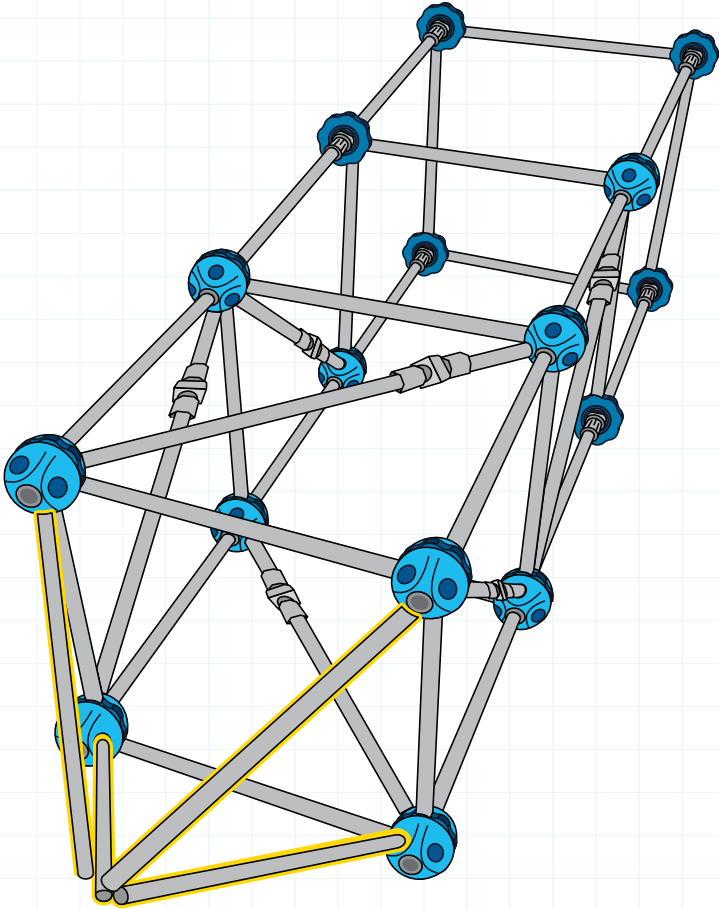


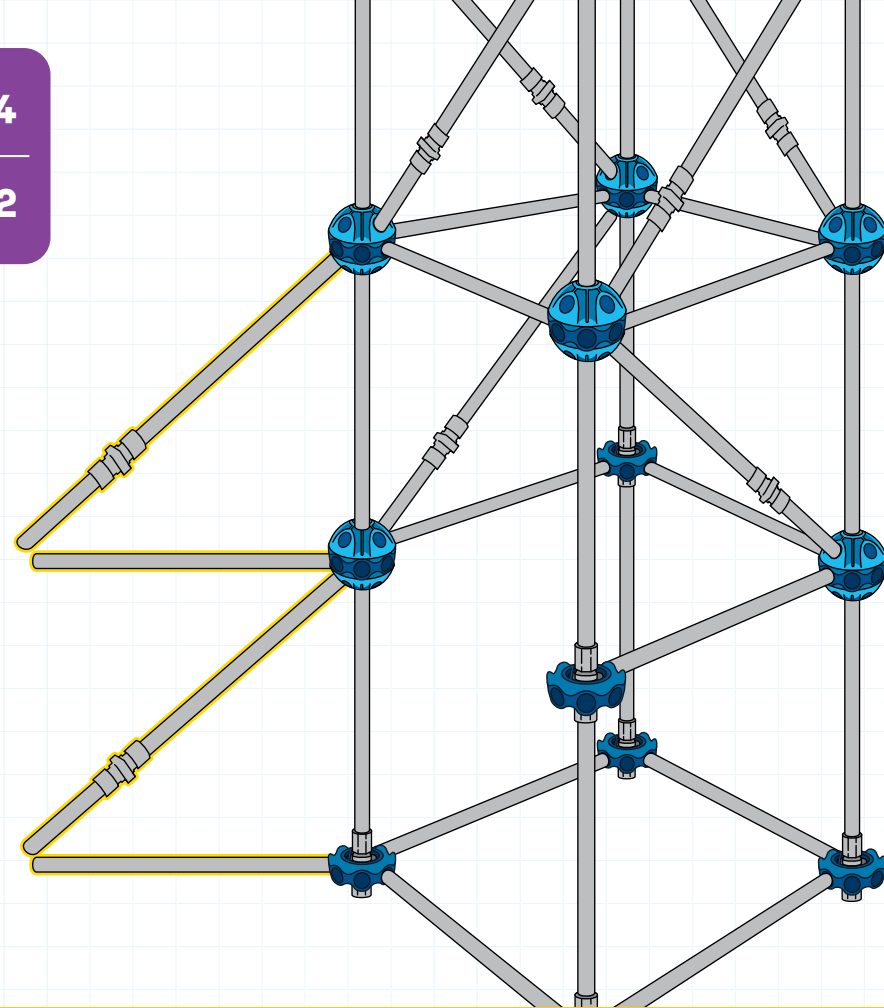
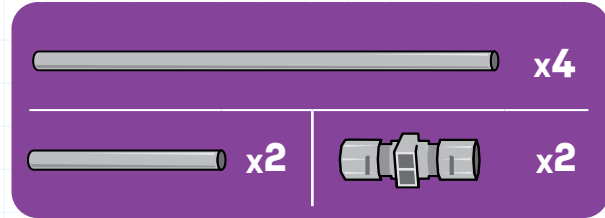
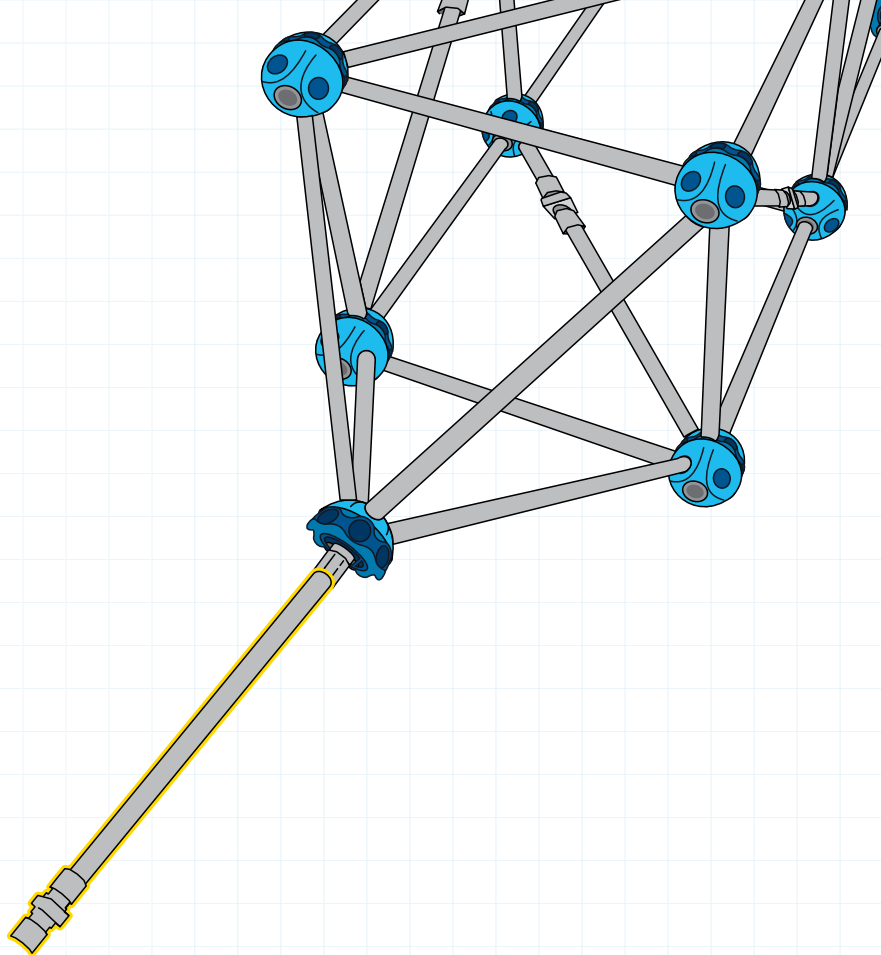
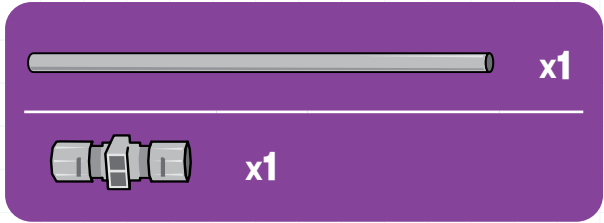
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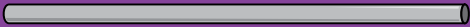


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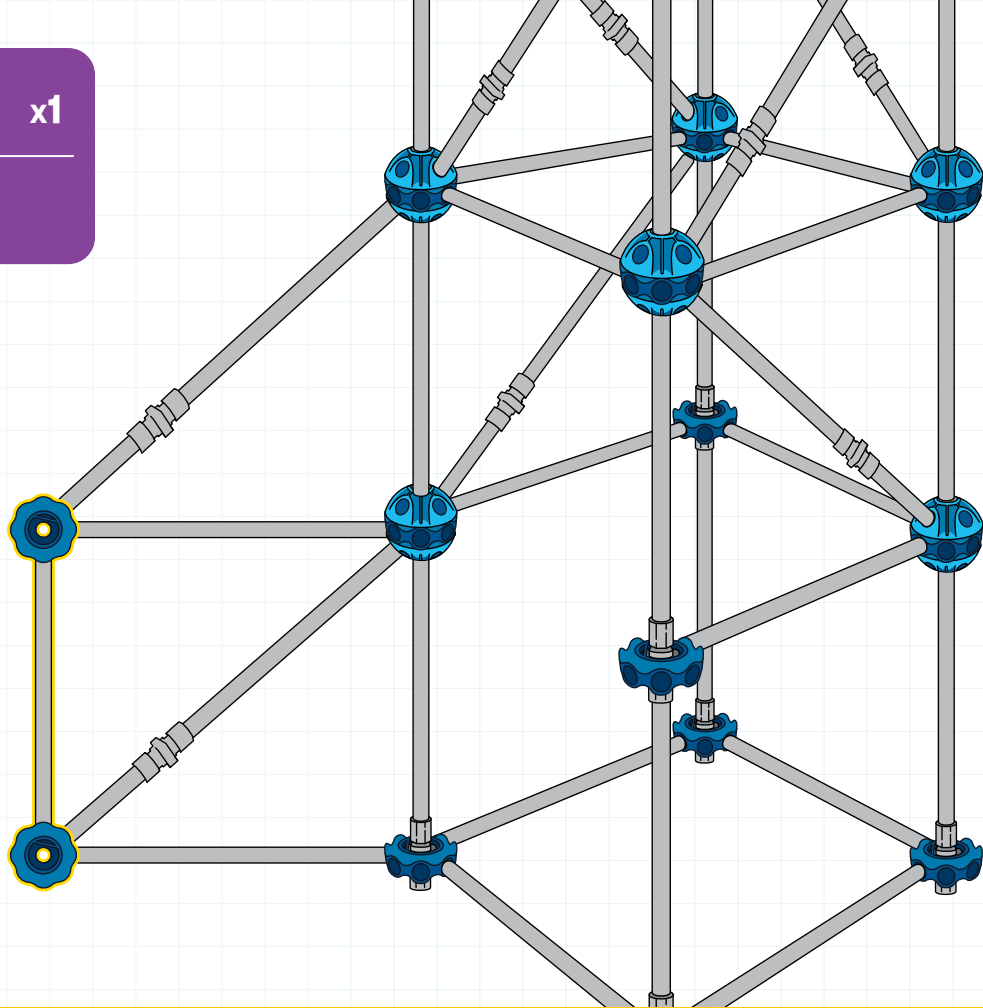






 x1

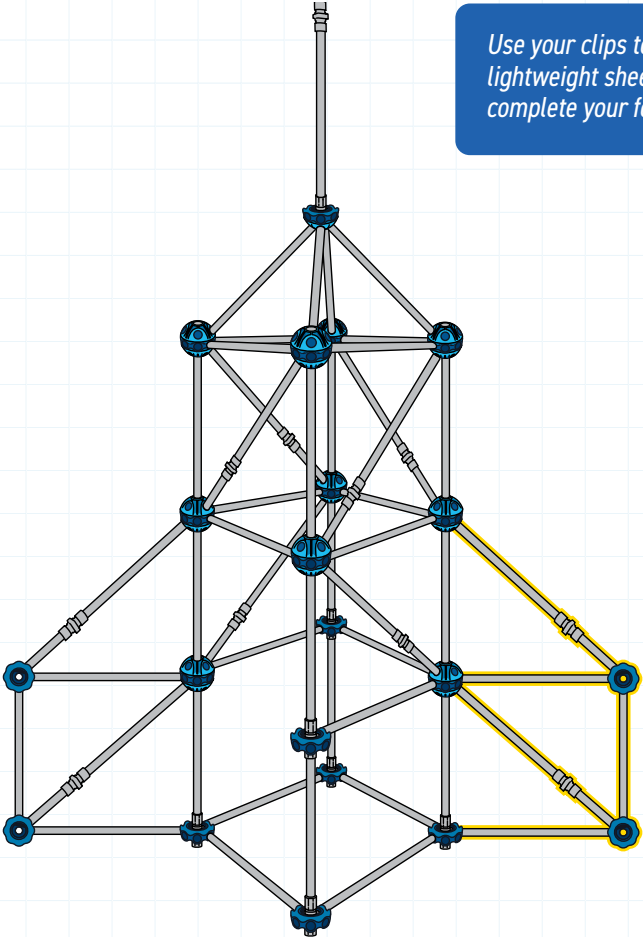
 x2



Repeat
pages 47-48
for other wing

Great
Job!

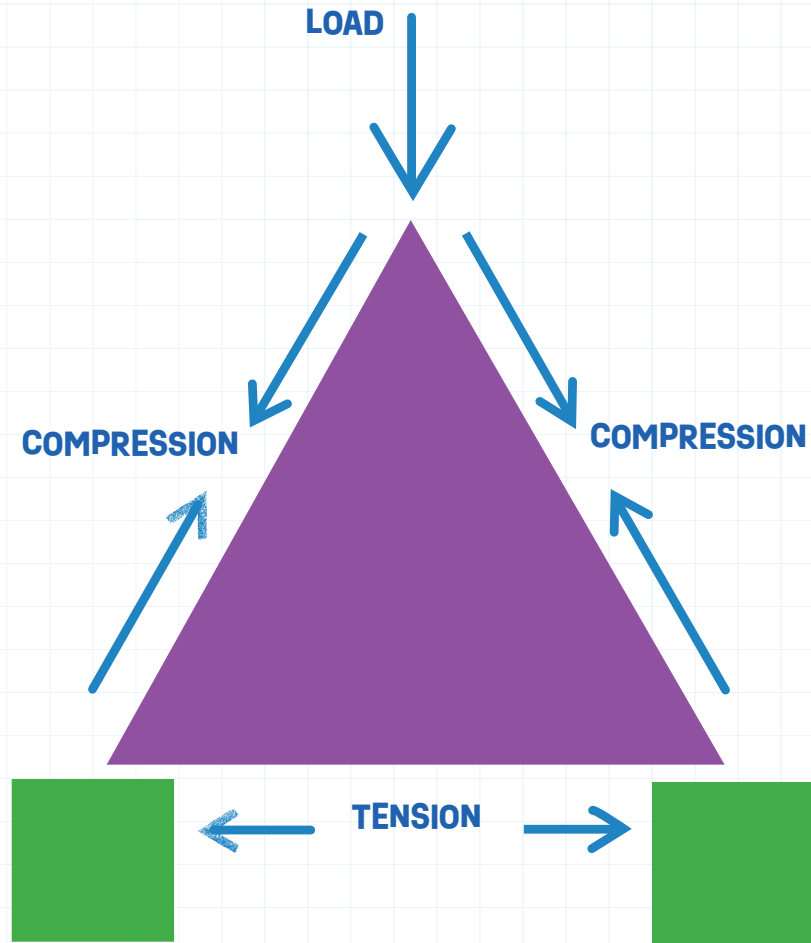
Use your clips to attach
lightweight sheets to
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Structural Engineering Concepts

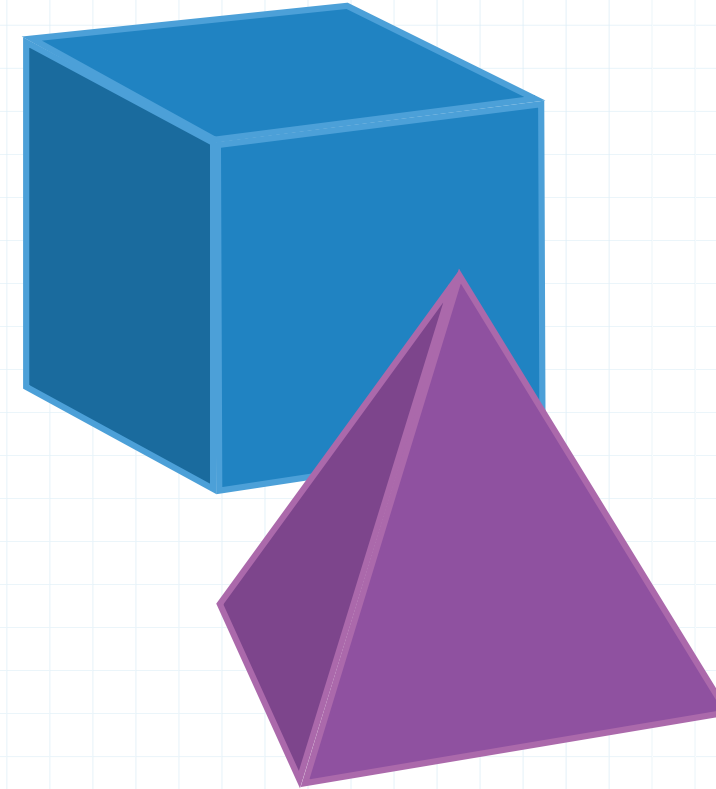
Square vs. Triangle

Triangles are stronger than squares when building. If you look back to the build on the previous page, you'll see extra-long poles connected diagonally throughout the build. These extra-long poles transform each square of the build into two triangles, making the whole structure much stronger. The same goes for the triangle shapes that create a pyramid at the top. Try to incorporate triangle shapes into your fort building whenever you can so it's as sturdy as possible!



Polyhedrons

Shapes like cubes or pyramids are called *polyhedrons*.



ENGINEERING FUN FACTS

The Great Pyramid of Giza

The Great Pyramid of Giza in Egypt was built over 4000 years ago during the reign of King Khufu. It took around 20 years to complete and was the tallest human-created structure for more than 3,800 years!



Triangles in Action

The Minato Bridge in Osaka, Japan is a truss bridge, which is made up of many triangular units that help to distribute heavy loads.





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