

ROKENBOK®

04129

9+

Teaching Kids to Make
Things That Do Things

Young Engineers Start Set

CHALLENGE YOUR ENGINEERING SKILLS WHILE
EXPLORING 1 OF 4 ENGINEERING BUILDS:



DRAWBRIDGE

ELEVATOR WITH
TRESTLE BRIDGE

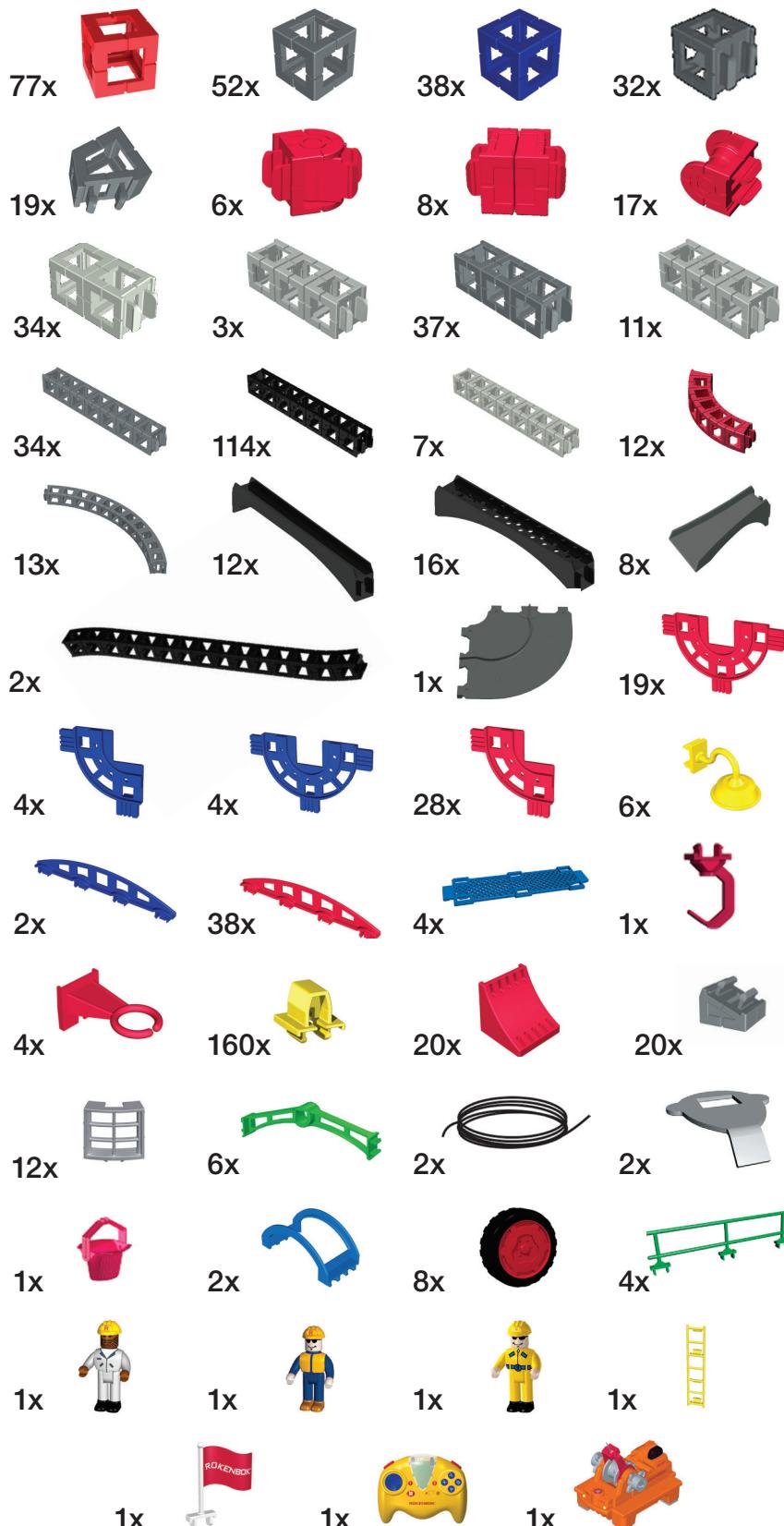
COMPOUND GEAR CRANE

GANTRY CRANE

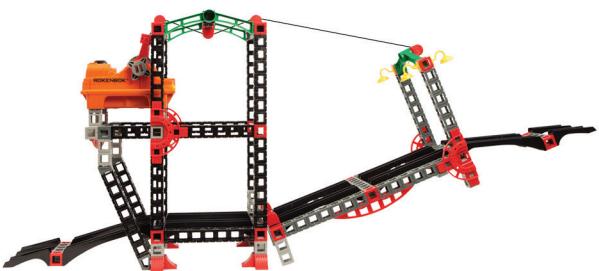


WARNING:
CHOKING HAZARD.
Toy contains small parts and small
balls. Not for children under 3 years.

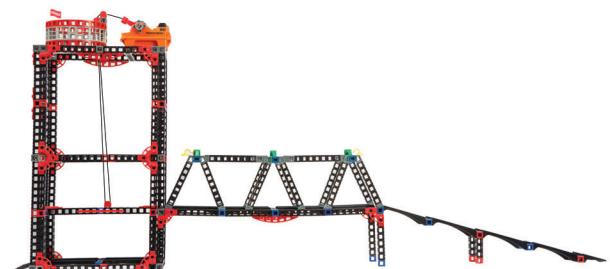
BILL OF MATERIALS



Color of building pieces may differ from those shown.



DRAWBRIDGE PG. 1



ELEVATOR PG. 8



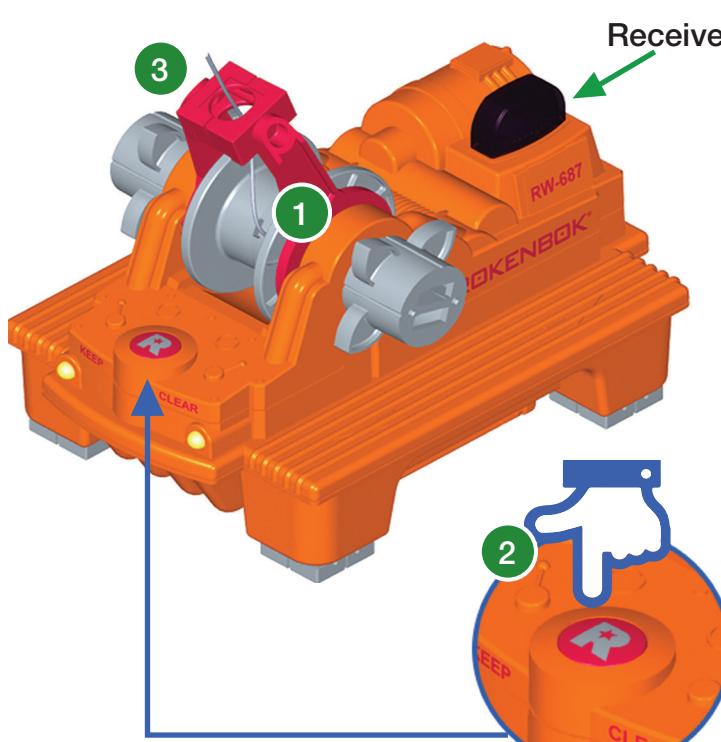
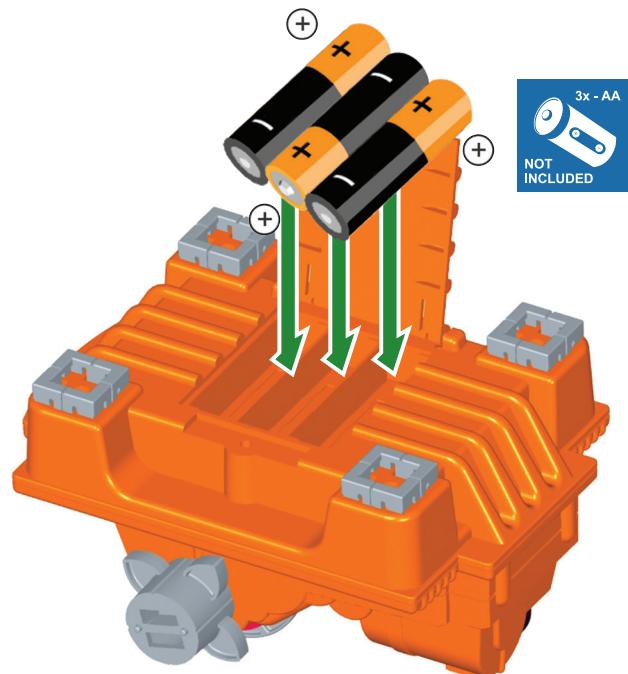
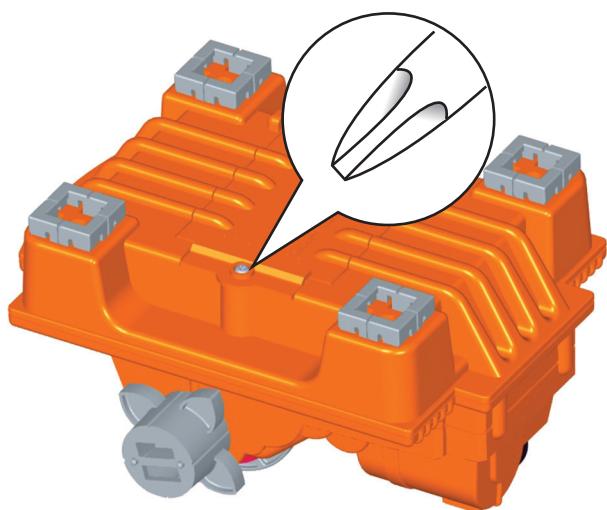
GANTRY CRANE PG. 21



GEAR CRANE PG. 32

BATTERY INSTALLATION AND OPERATION

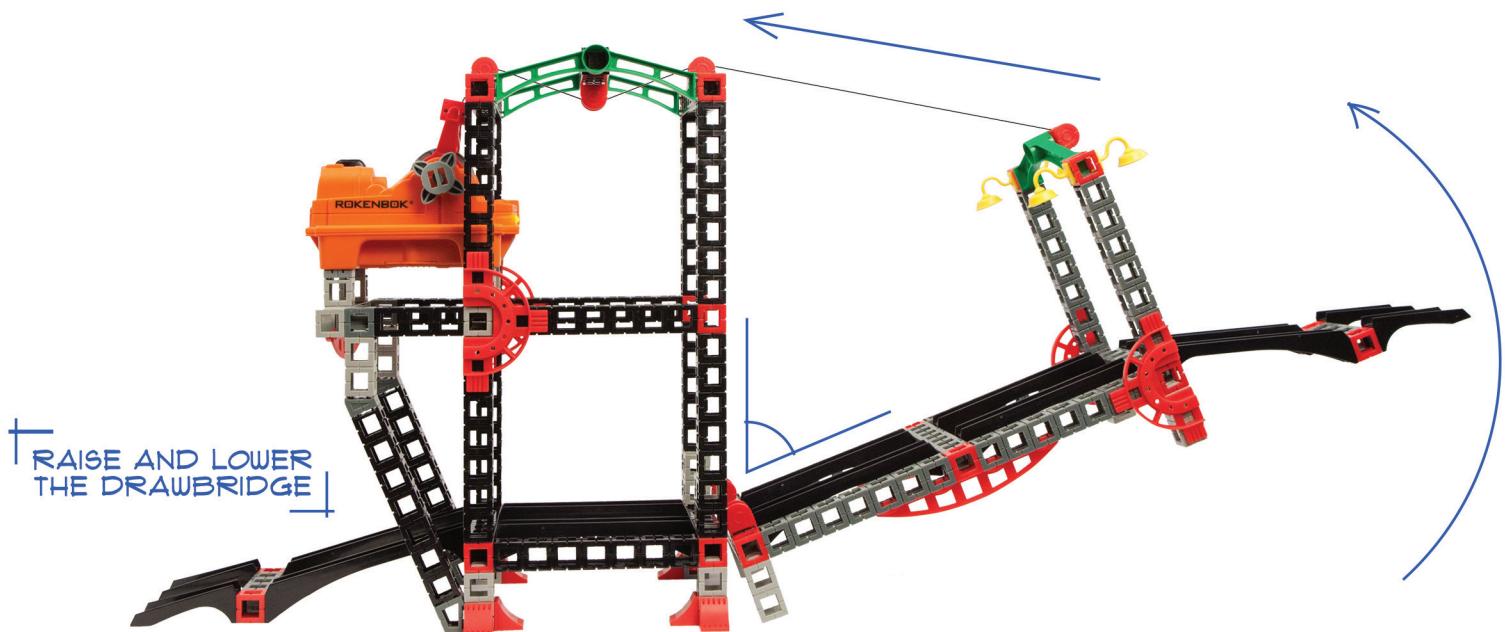
- Rokenbok recommends premium alkaline batteries for use in your Rokenbok machines.
- Batteries are to be inserted with correct polarity as shown.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc), or nickel-cadmium batteries.



FEEDING STRING ONTO X2:

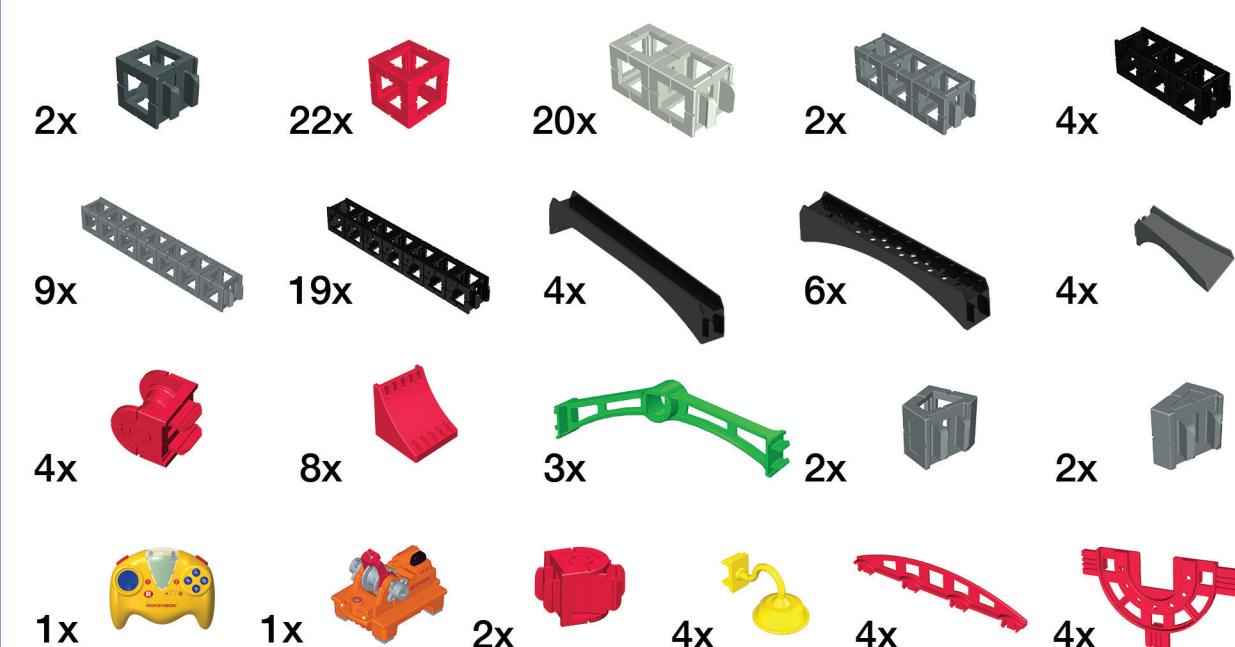
1. Insert one end of the “knotted” string into the notch on the Winch Spool. (see diagram)
2. Power on the X2 machine. Using your ROK Star Controller, press the red “R” select button while pointing at the receiver on the X2 machine. When you have selected the X2 machine, hold down the “B” button on your ROK Star Controller and feed the string onto the X2 spool until about six inches of the string remains unspooled. (see diagram)
3. Guide the remaining end of the string up through the hole in the cable guide as shown. (see diagram)

DRAWBRIDGE

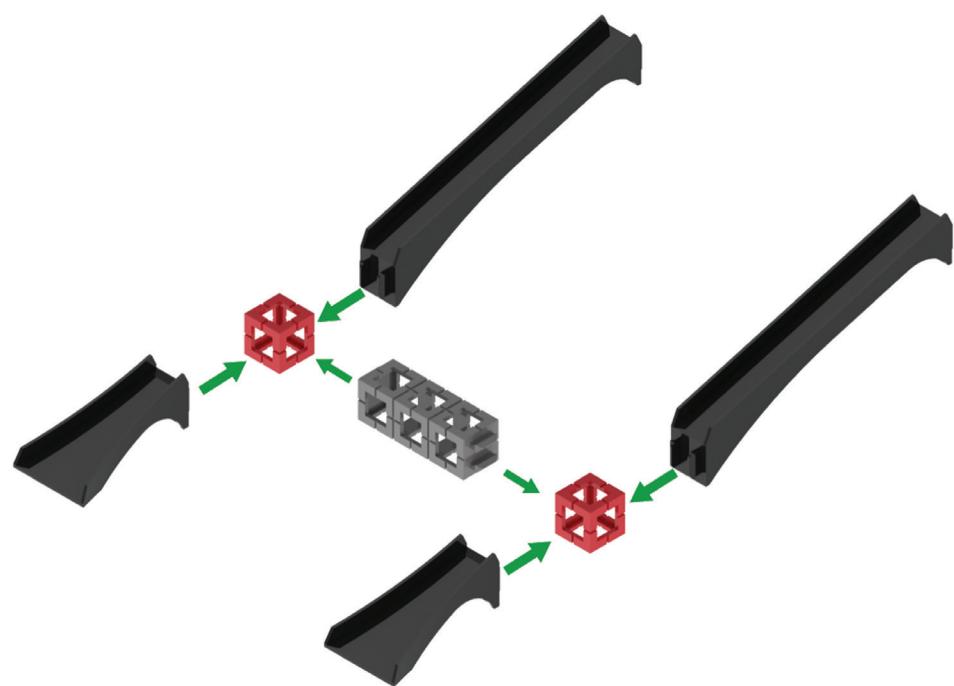
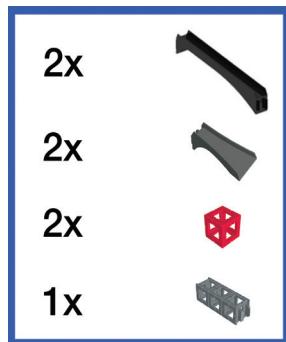


RAISE AND LOWER
THE DRAWBRIDGE

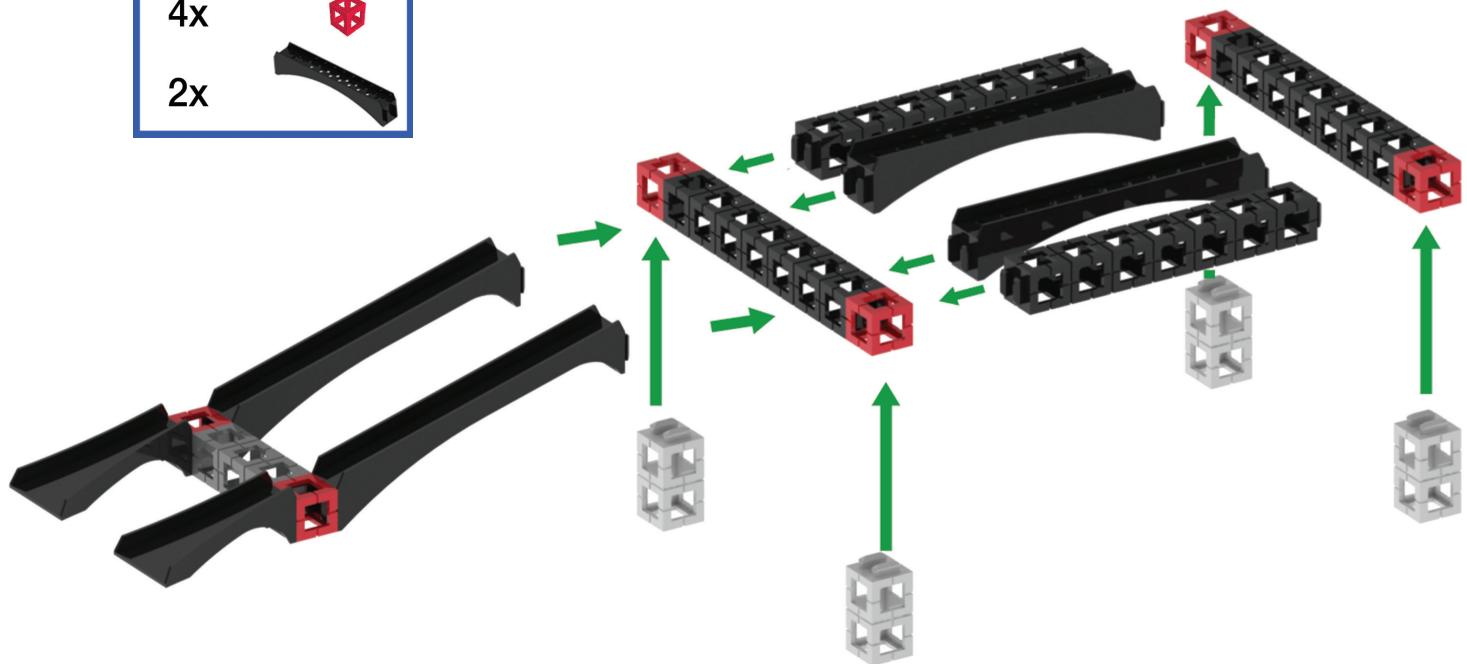
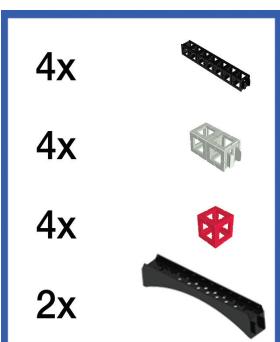
BILL OF MATERIALS



1

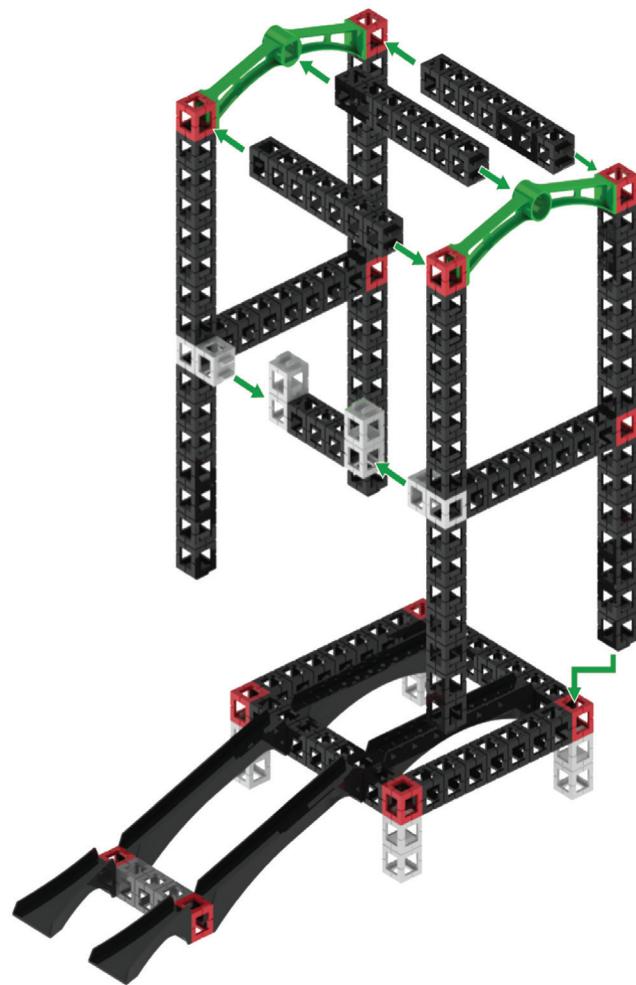


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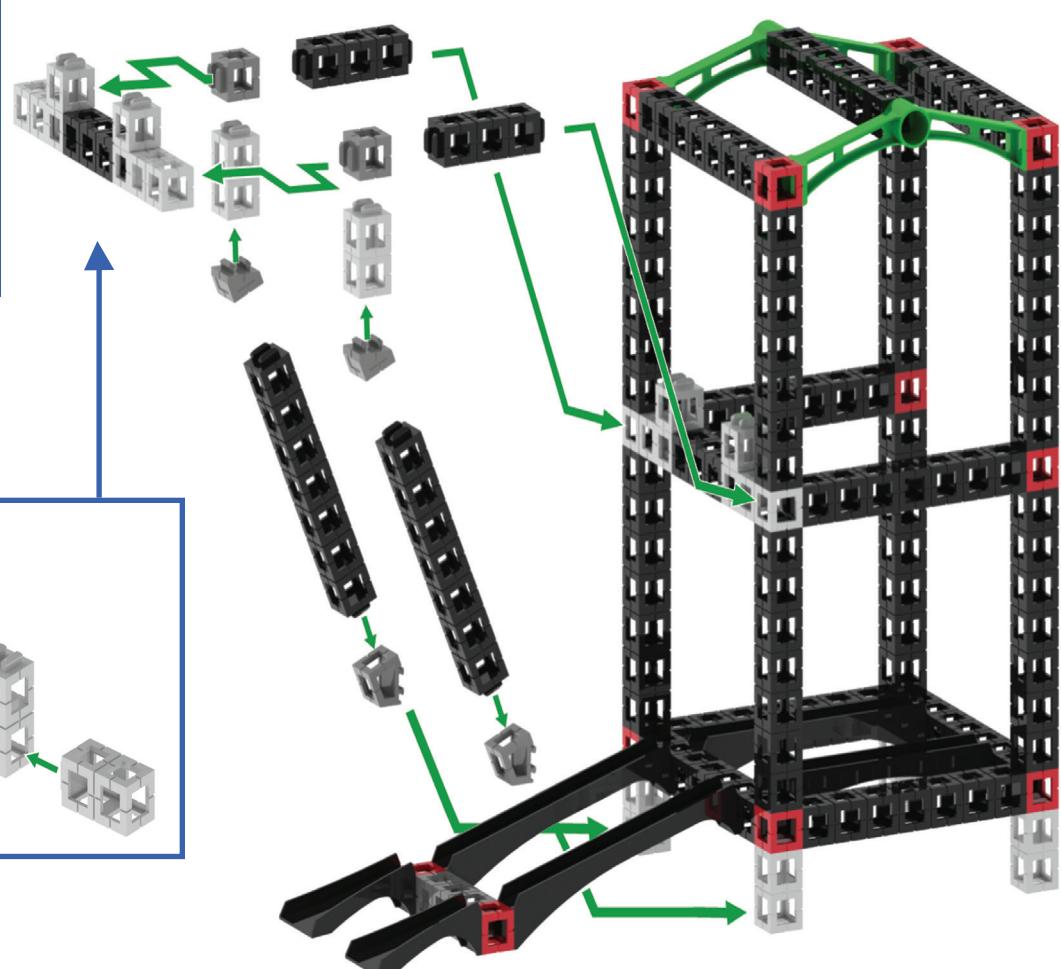
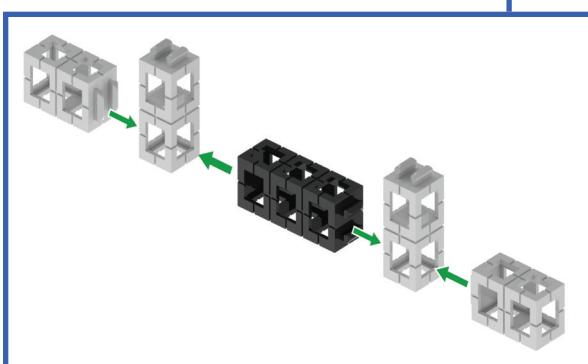
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13x	
6x	
4x	
2x	
1x	

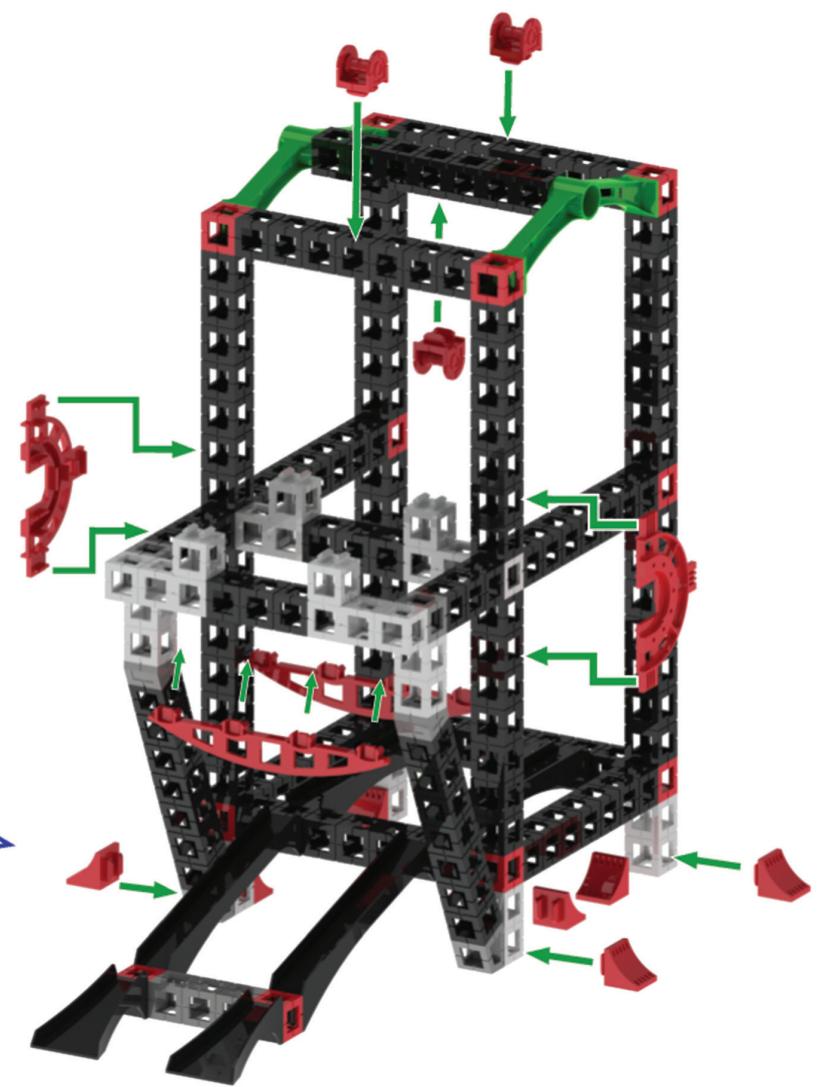
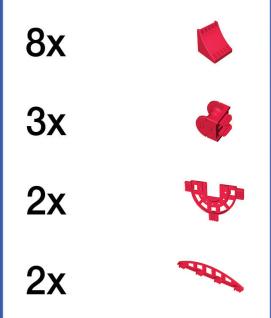


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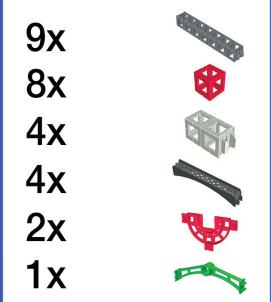
6x	
3x	
2x	
2x	
2x	
2x	



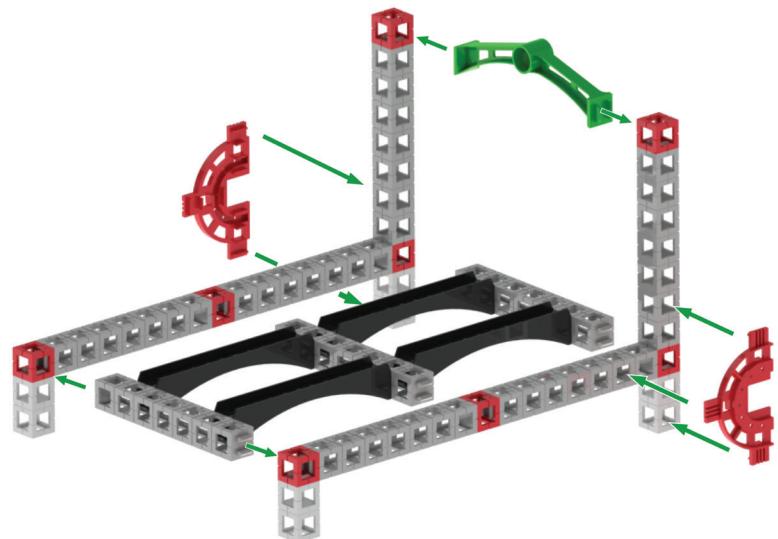
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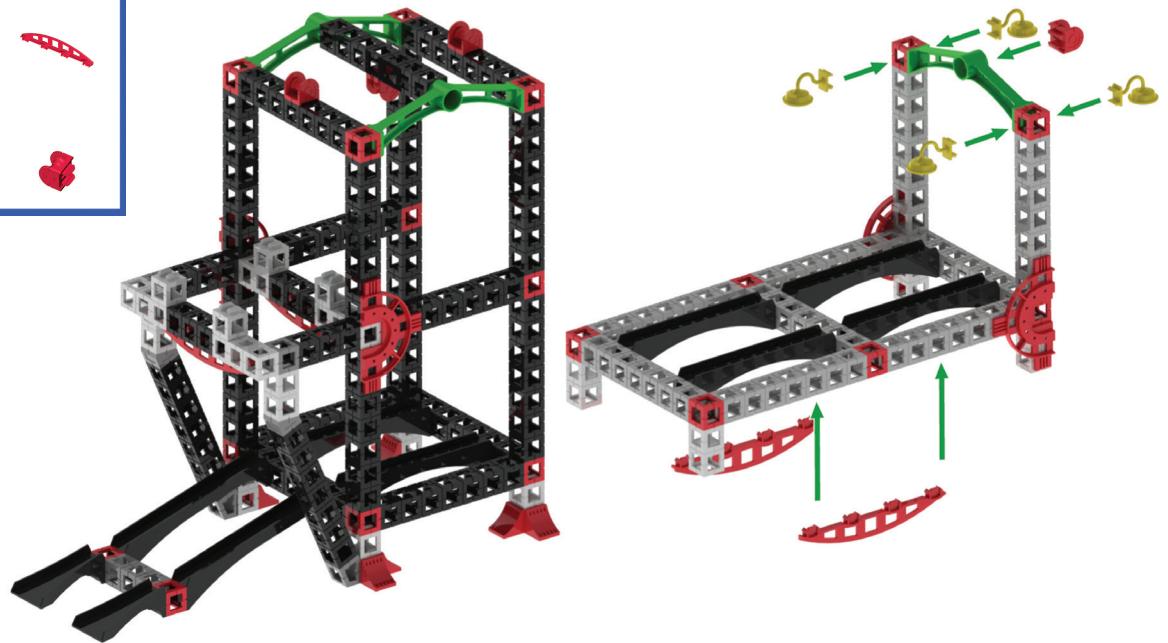
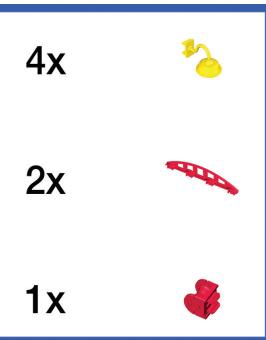
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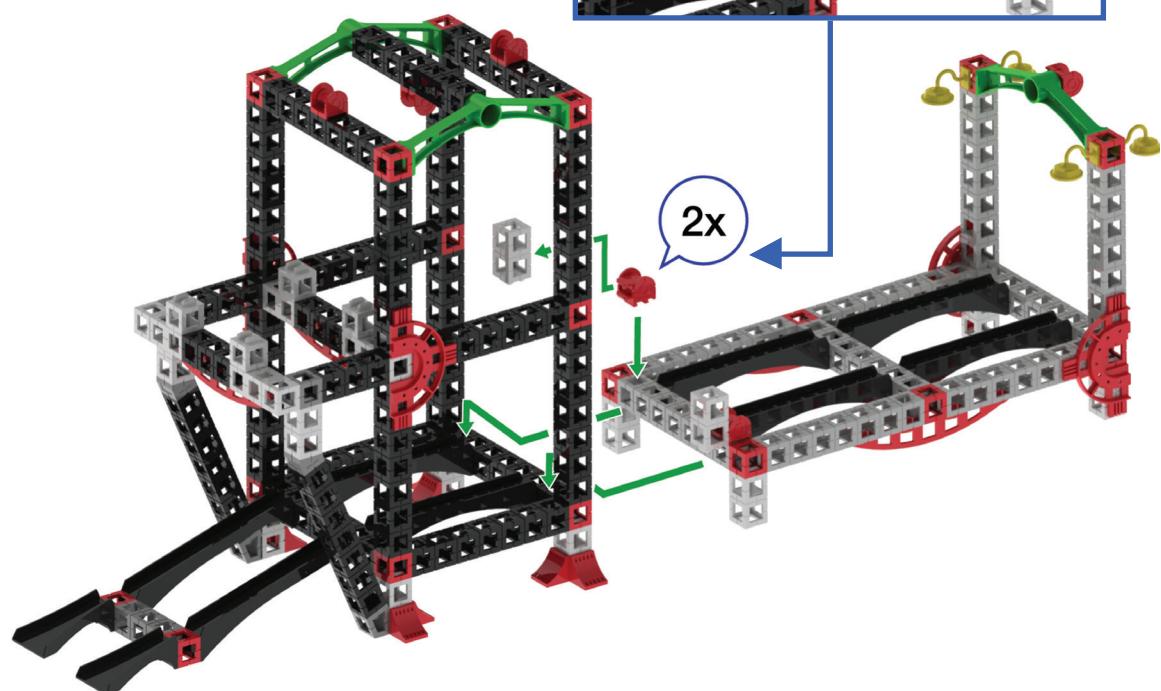
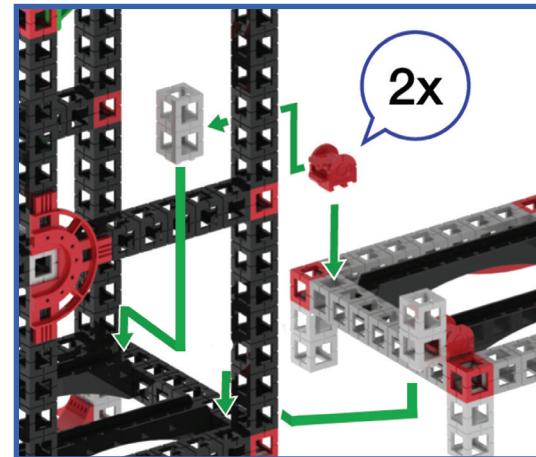
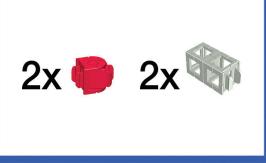
8x



7



8



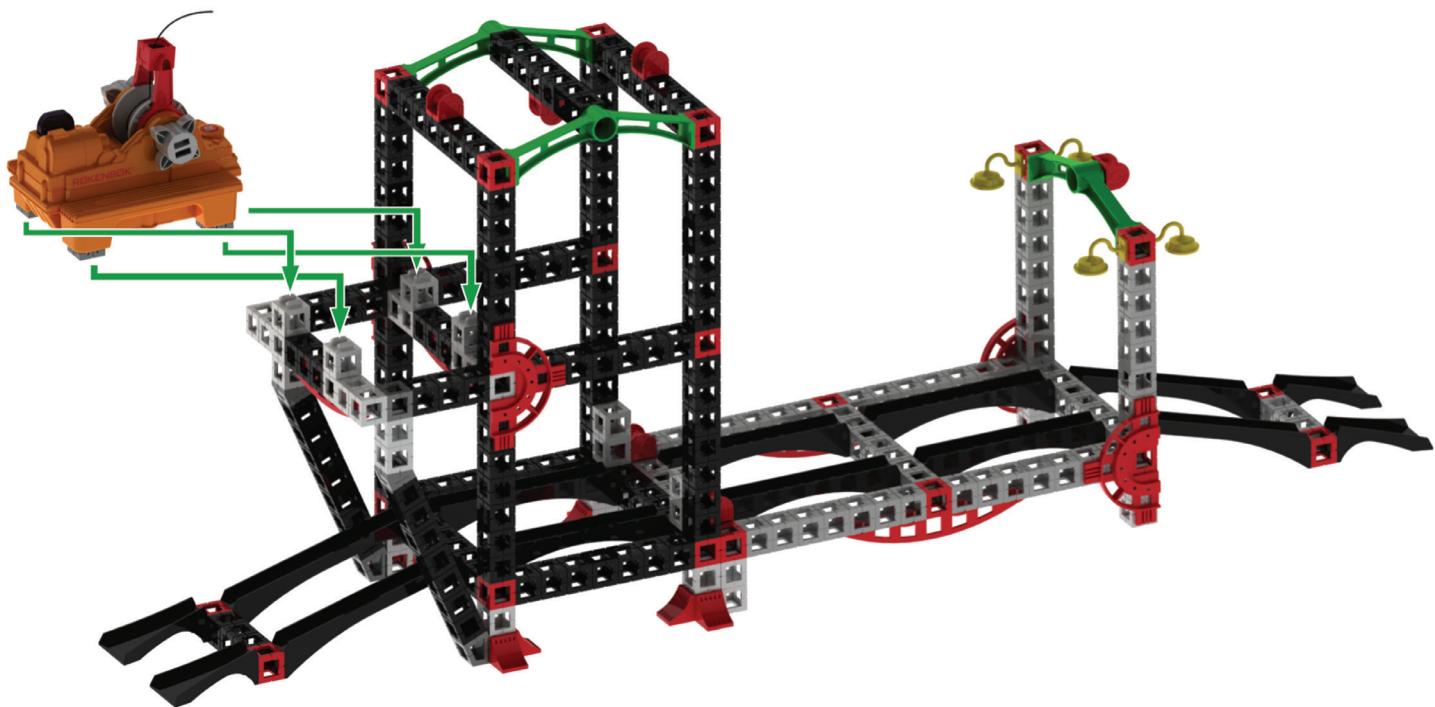
9

- | | |
|----|--|
| 2x | |
| 2x | |
| 2x | |
| 1x | |

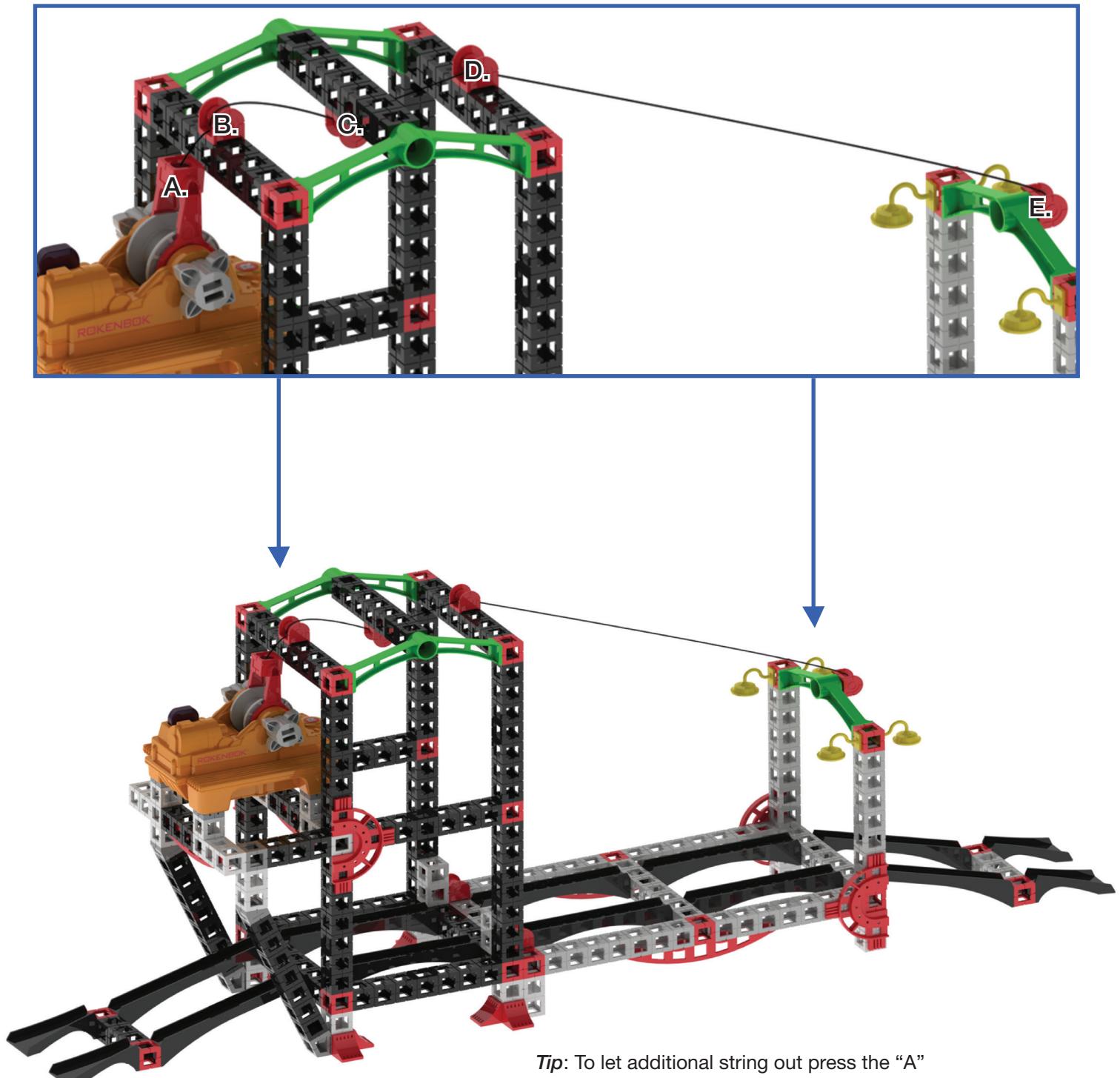


10

- | | |
|----|--|
| 1x | |
|----|--|



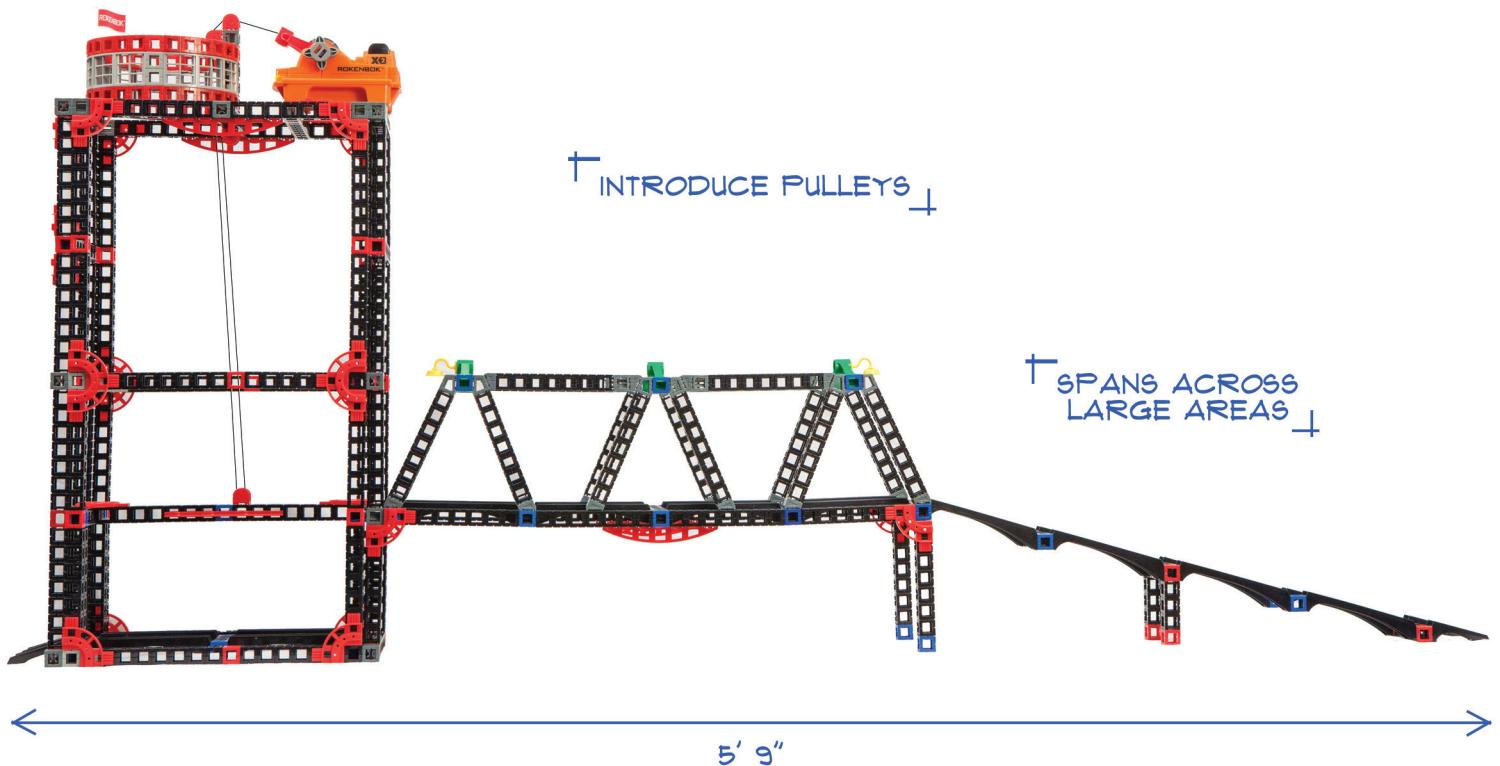
**FINAL ASSEMBLY:
ASSEMBLING THE WINCH STRING TO THE DRAWBDIGE.**



Tip: To let additional string out press the “A” button on your ROK Star Controller.

1. Guide the string from the winch cable guide over the pulley marked “B”.
2. Guide the string through the pulley marked “C”.
3. Guide the string over the pulley marked “D”.
4. Guide the string over the pulley marked “E”, and tie it to the final pulley.

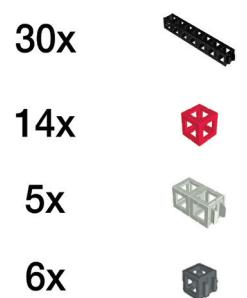
ELEVATOR WITH TRESTLE BRIDGE



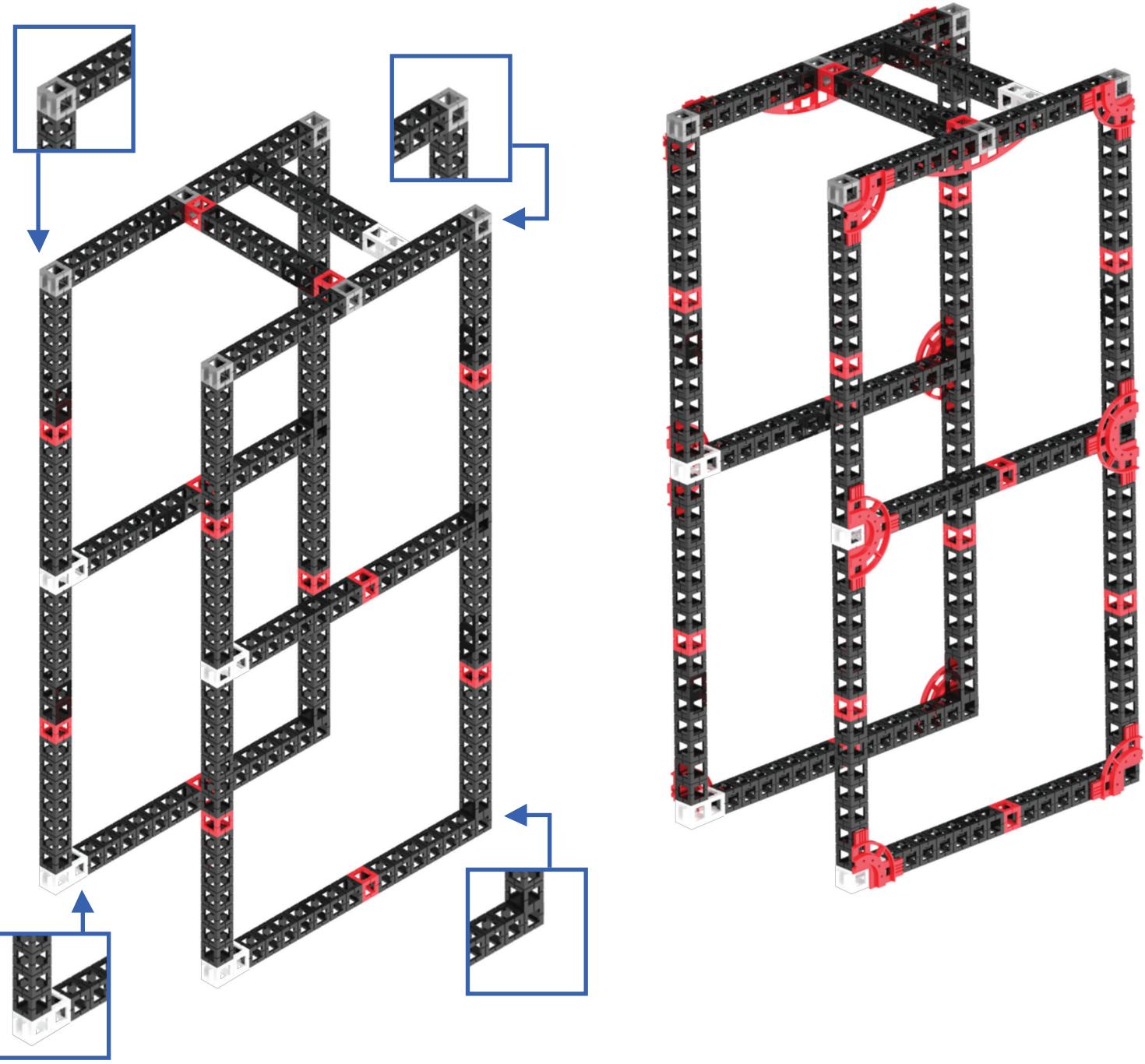
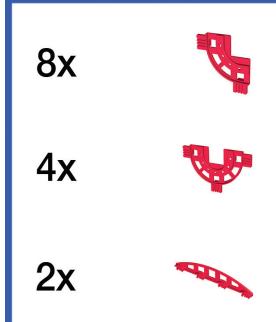
BILL OF MATERIALS

1x		12x		20x		10x		3x	
8x		4x		12x		28x		16x	
2x		8x		42x		33x		9x	
8x		8x		91x		12x		1x	
4x		1x		1x					

1



2

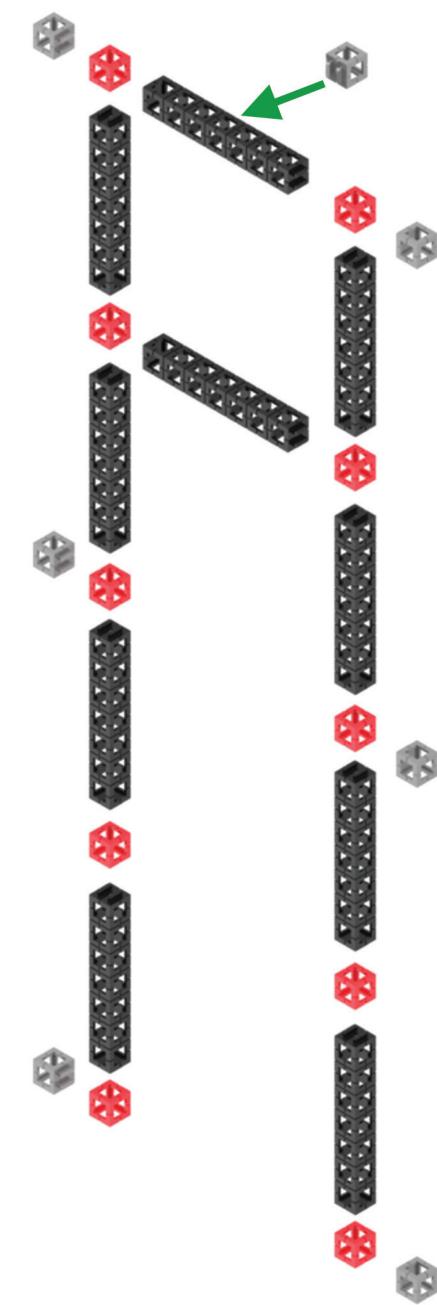
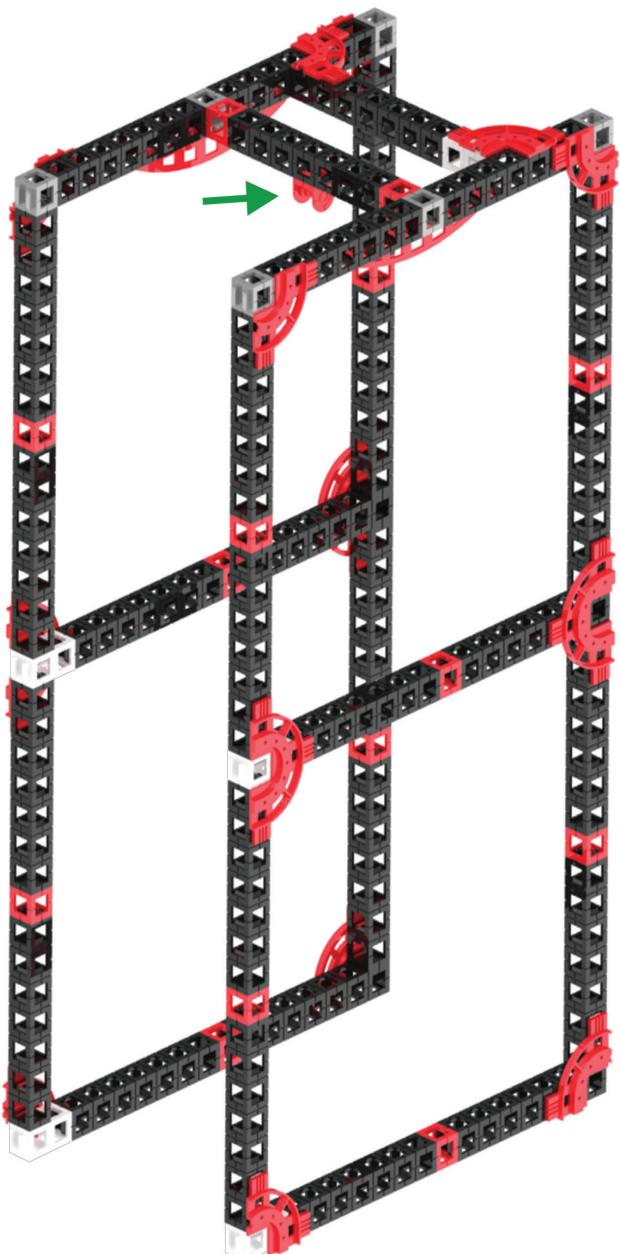


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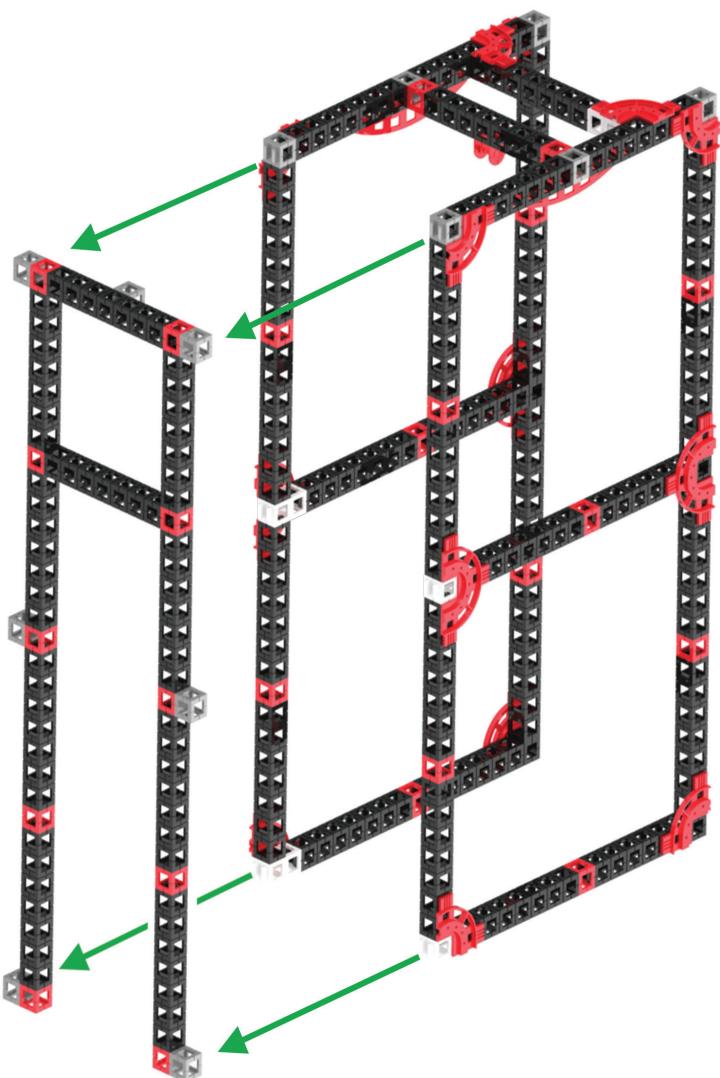
1x 2x

4

10x
10x
7x

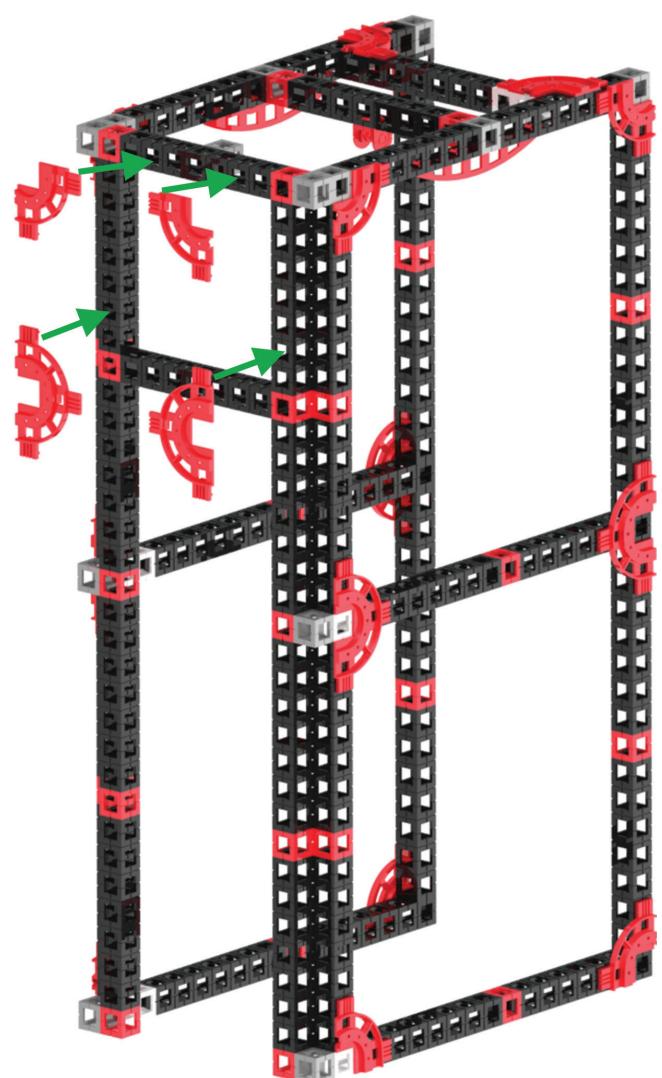


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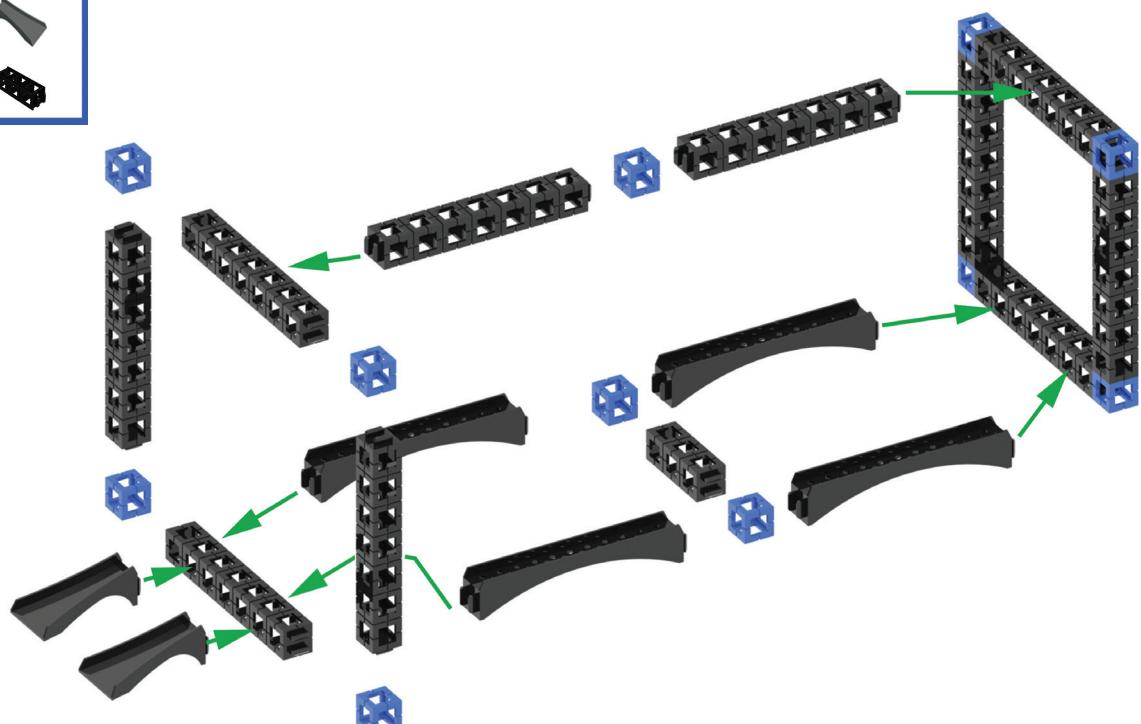
6

2x 2x



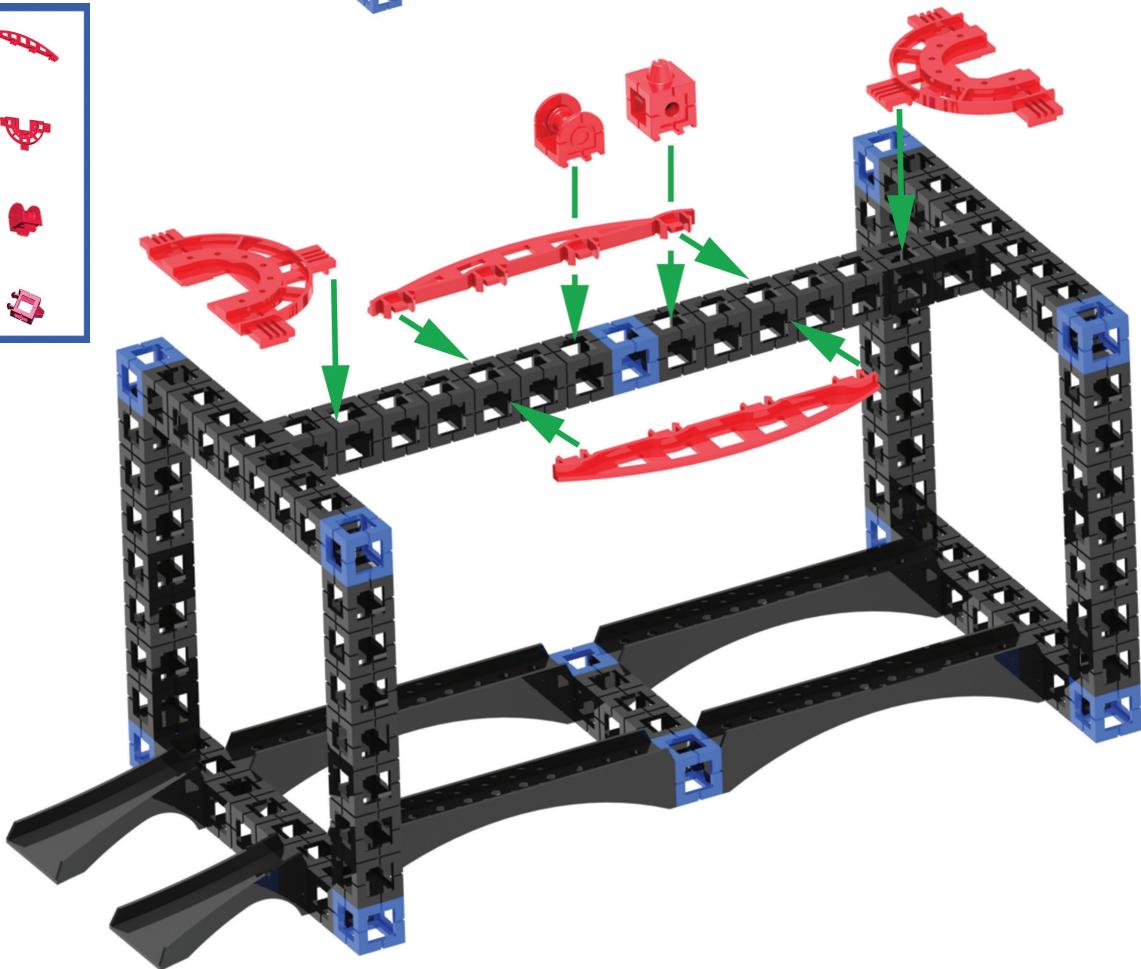
7

11x	
10x	
4x	
2x	
1x	



8

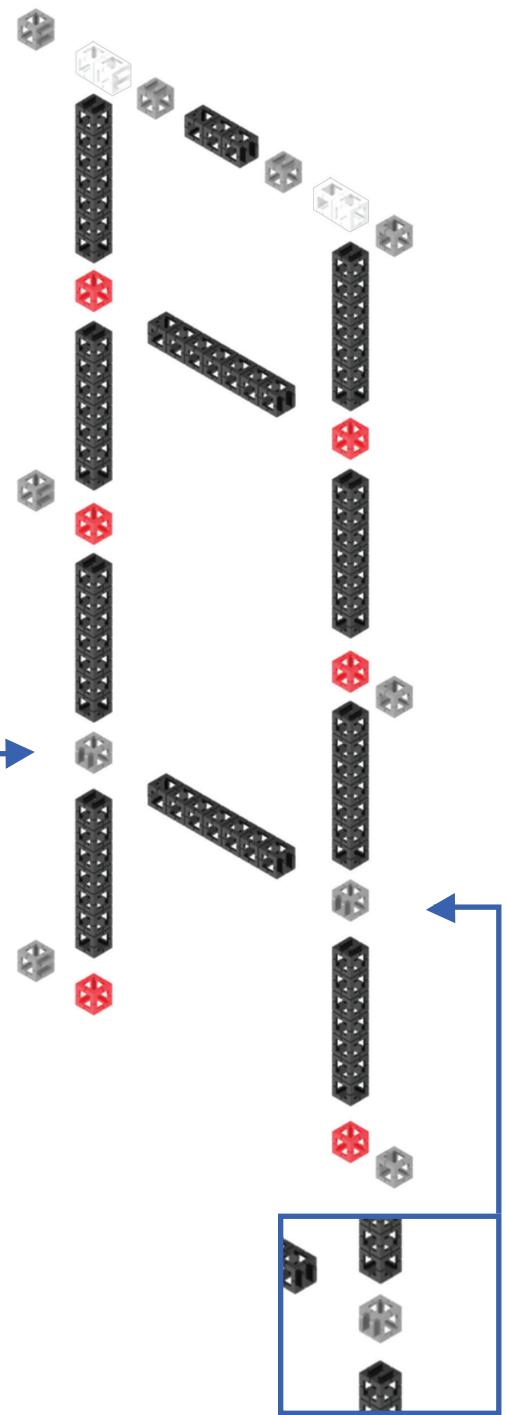
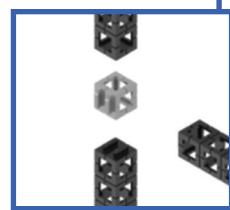
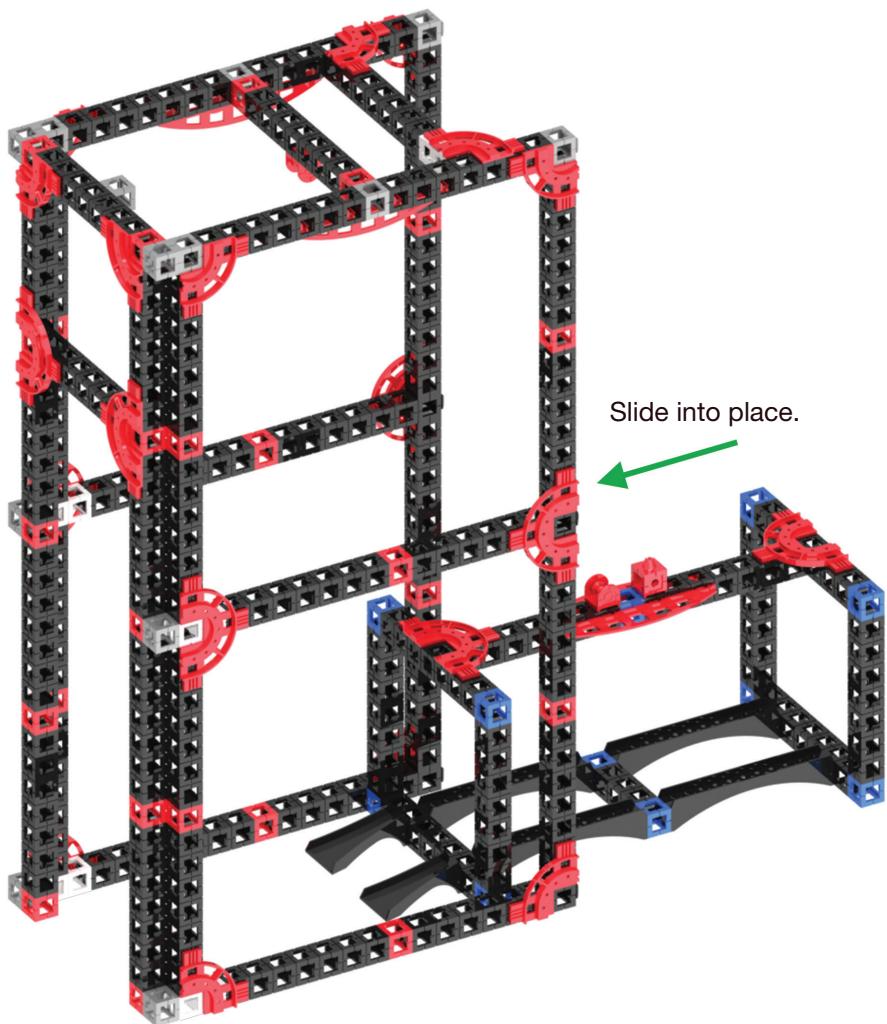
2x	
2x	
1x	
1x	



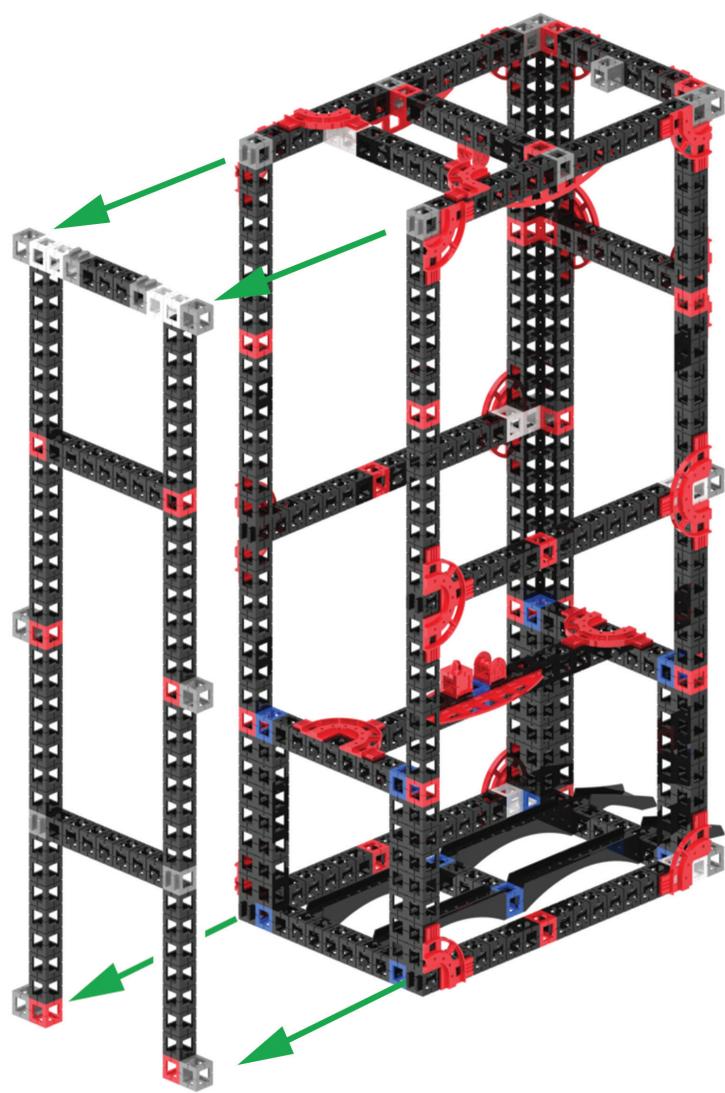
9

10

10x	
10x	
6x	
2x	
1x	

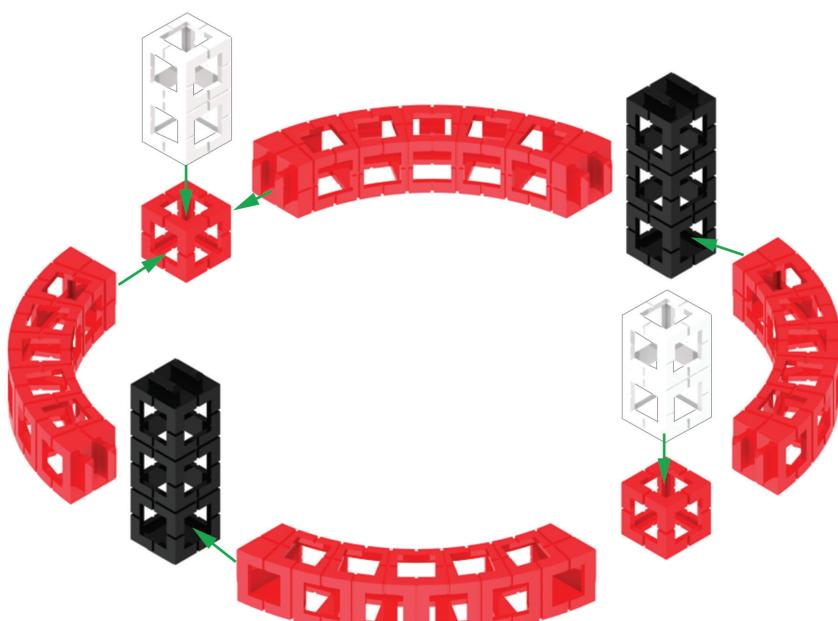


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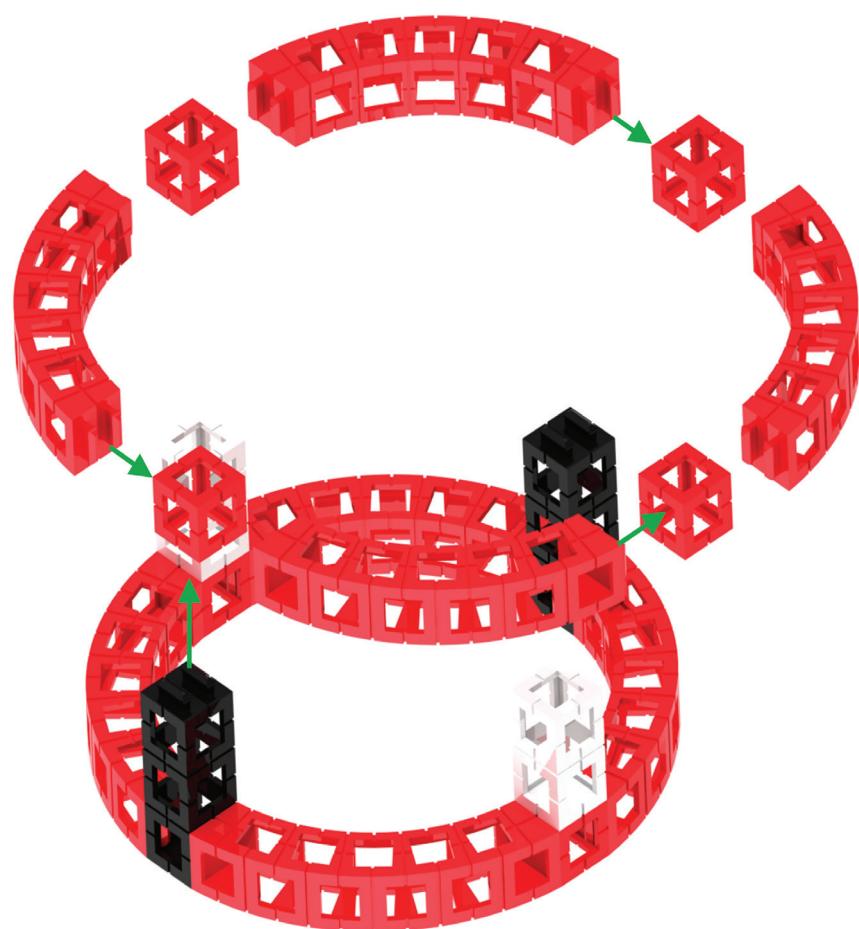
12

4x	
2x	
2x	
2x	



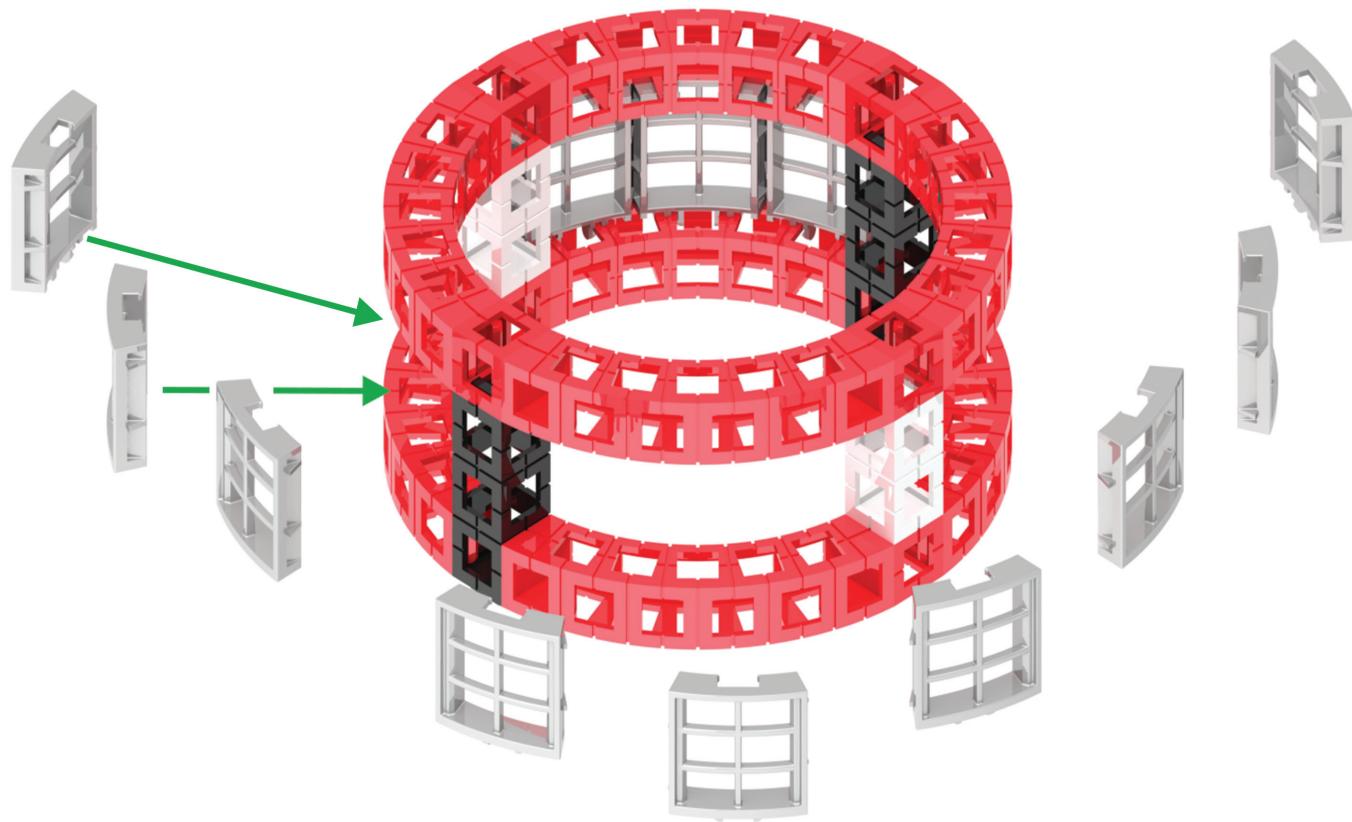
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4x 4x



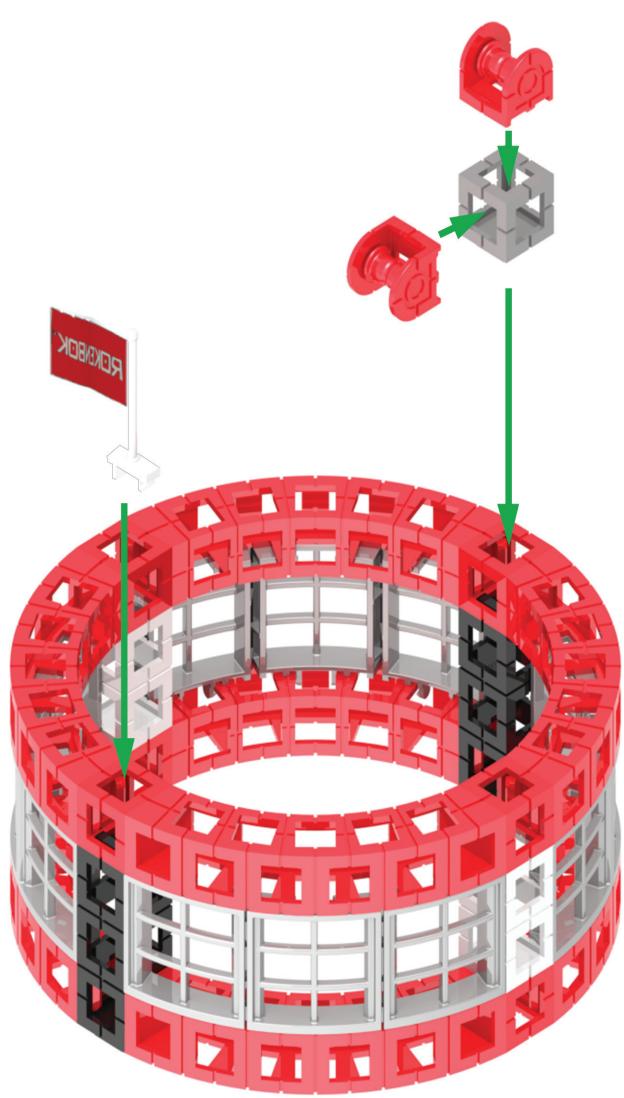
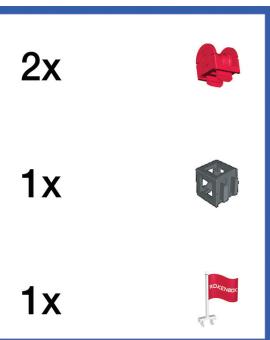
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12x

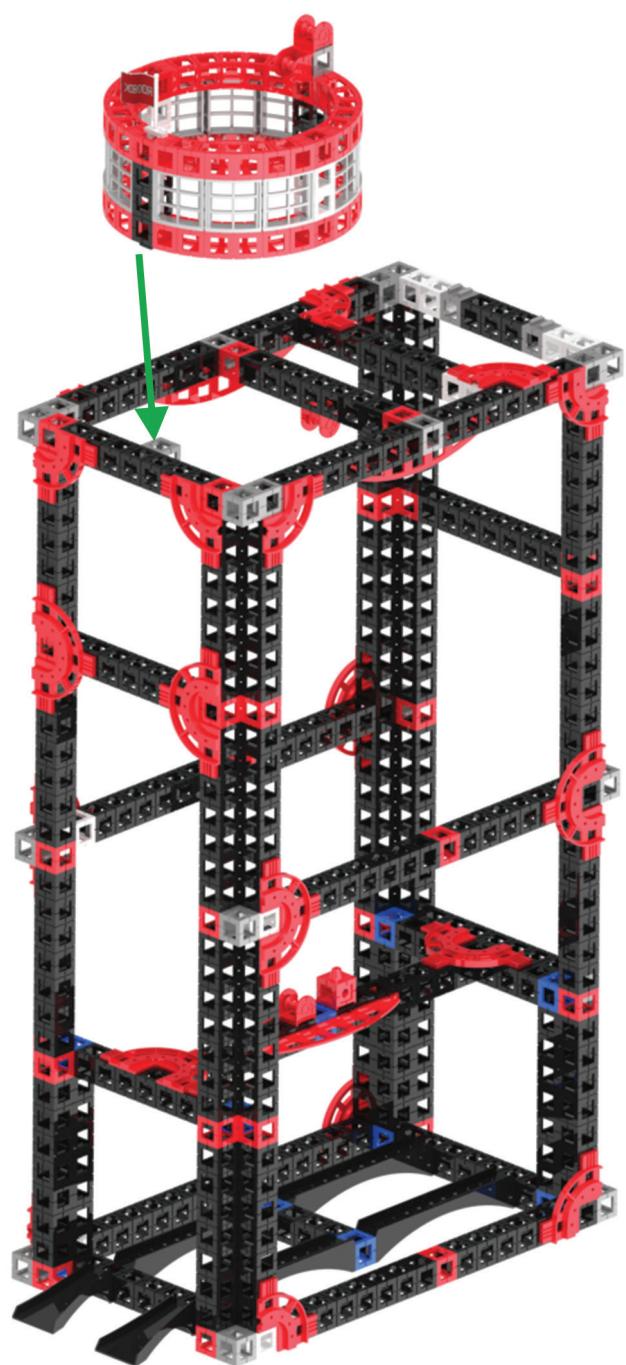


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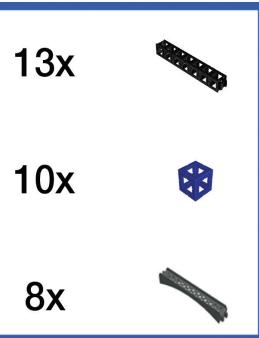
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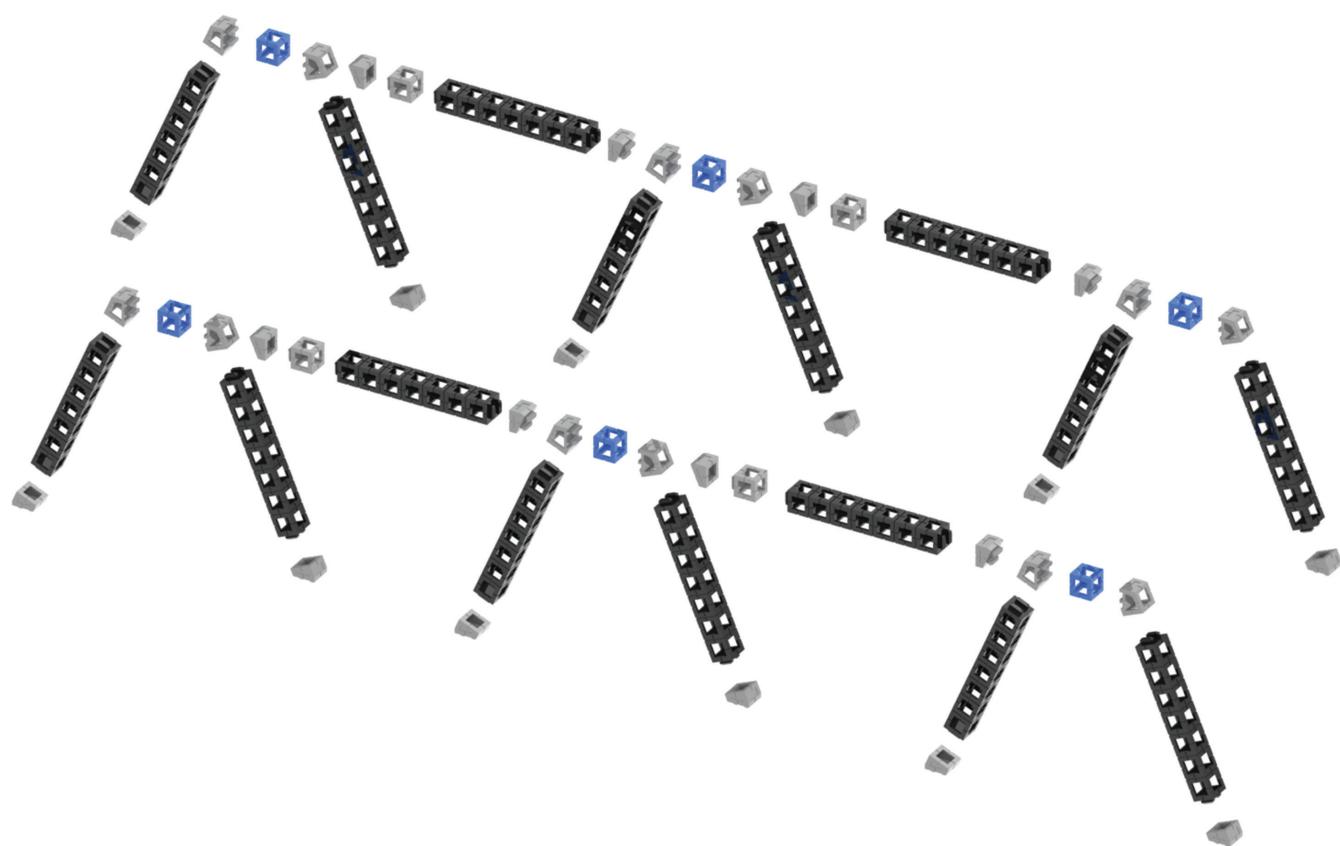
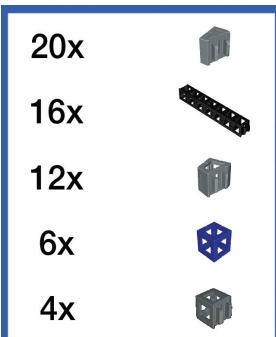
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17

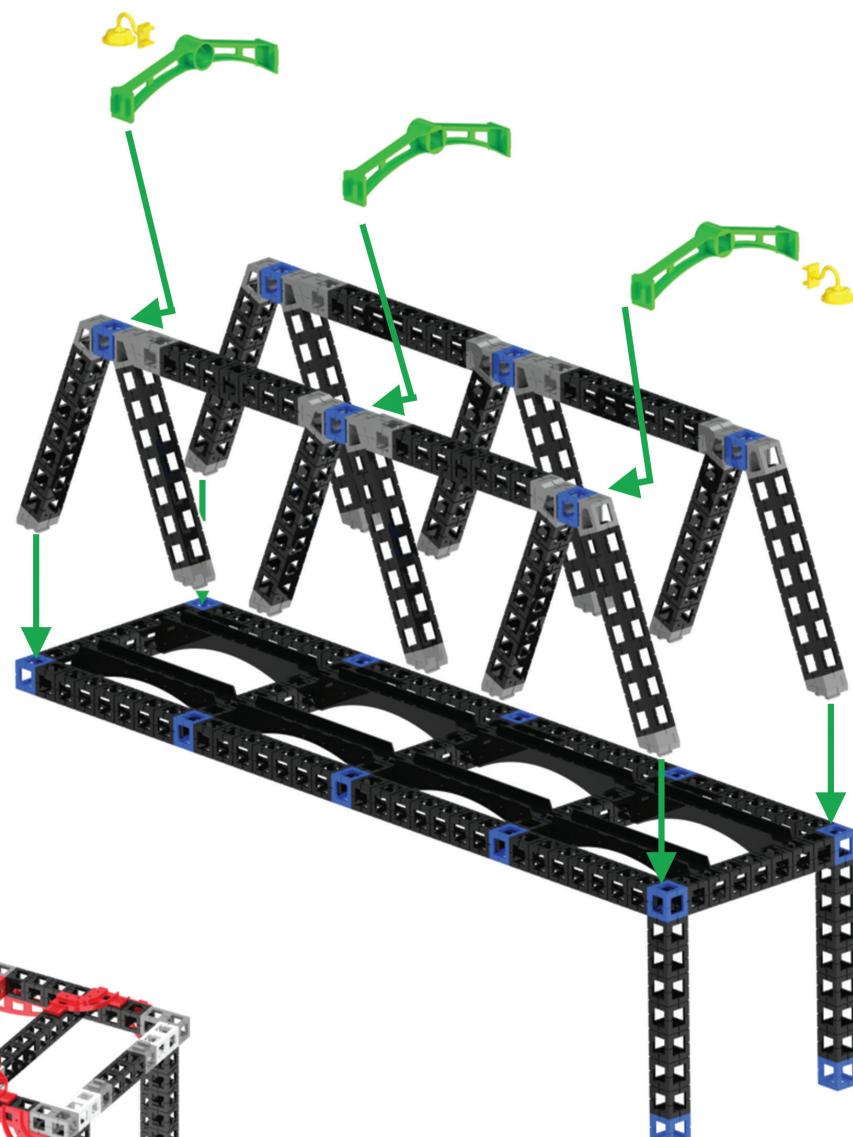
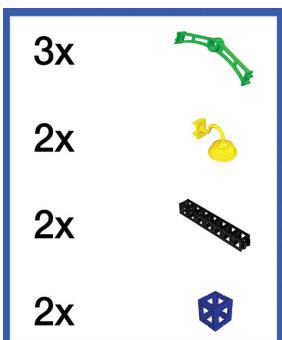


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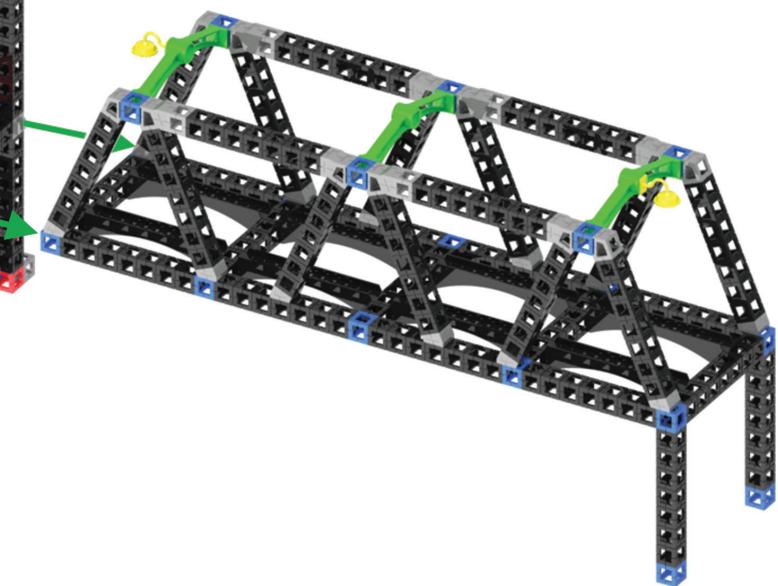
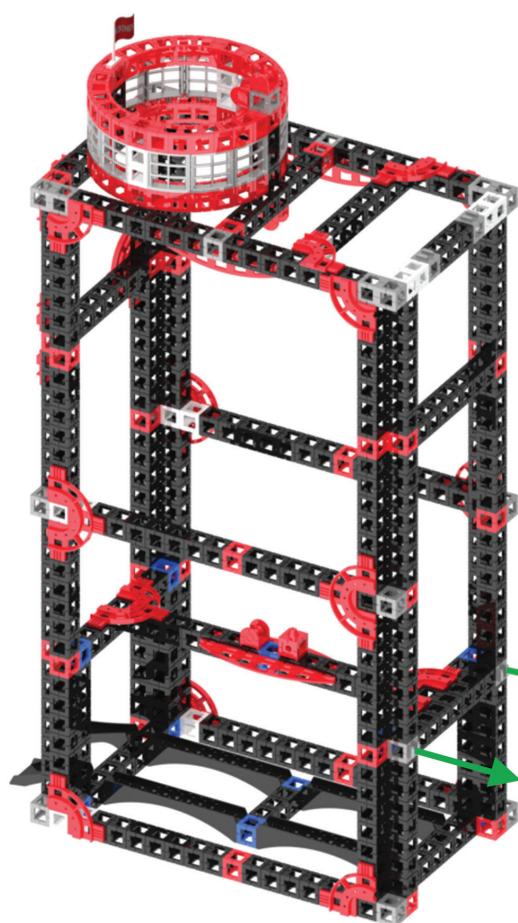


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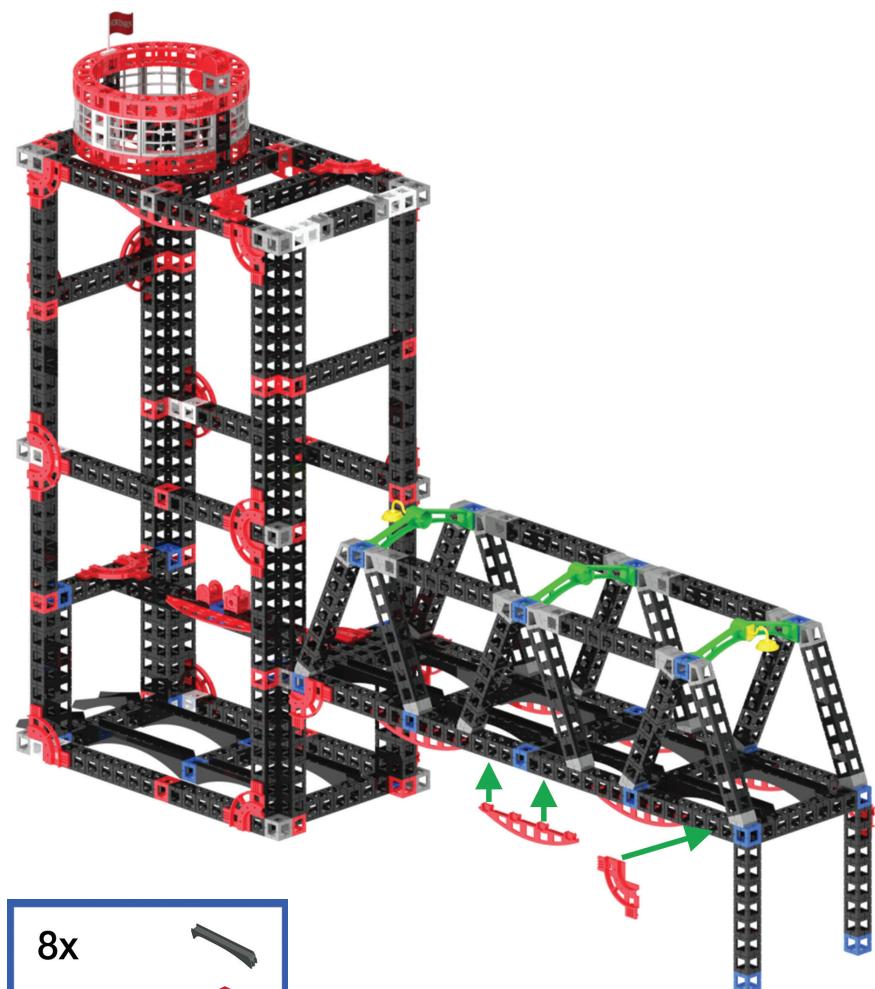


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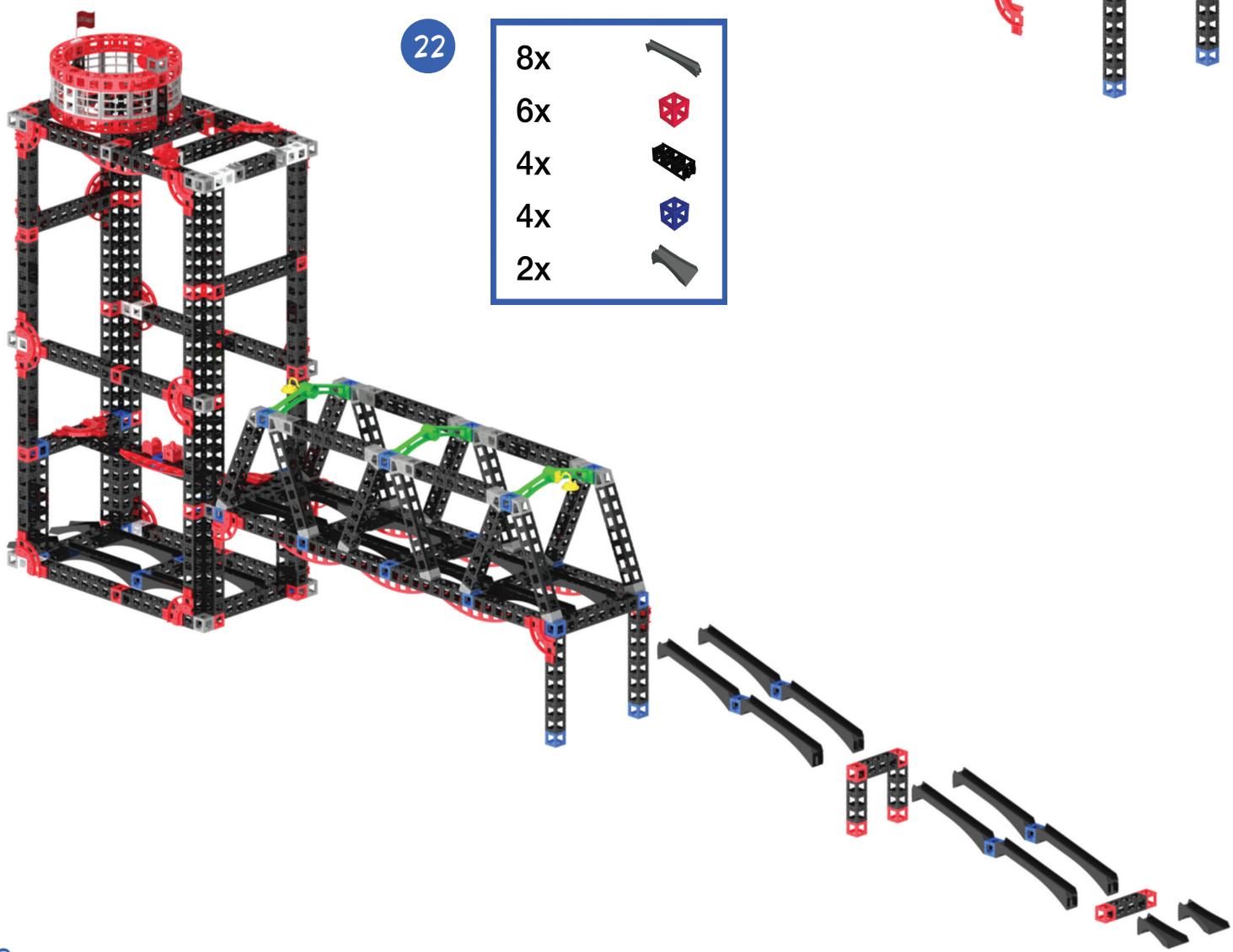
21

6x 4x



22

8x
6x
4x
4x
2x

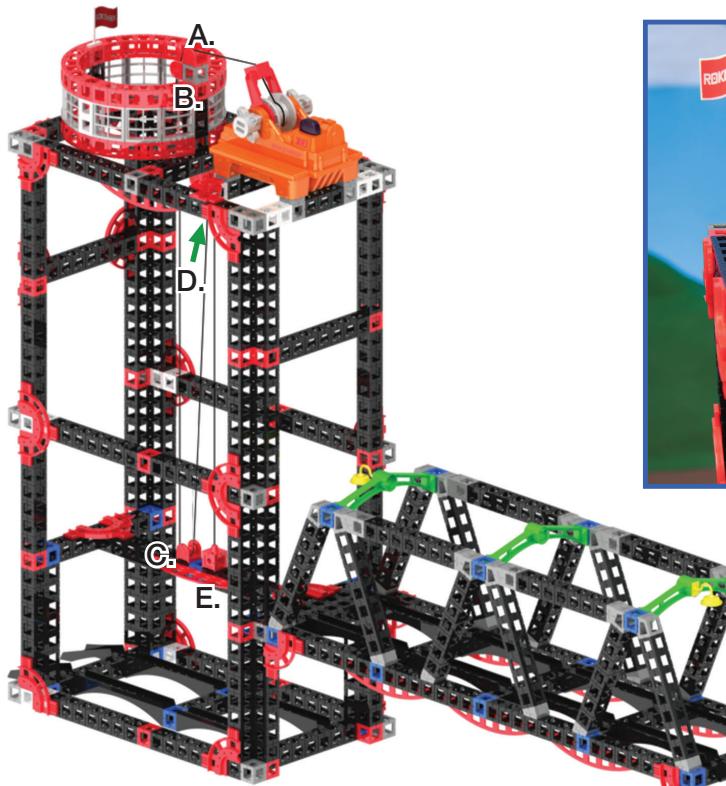


23

1x



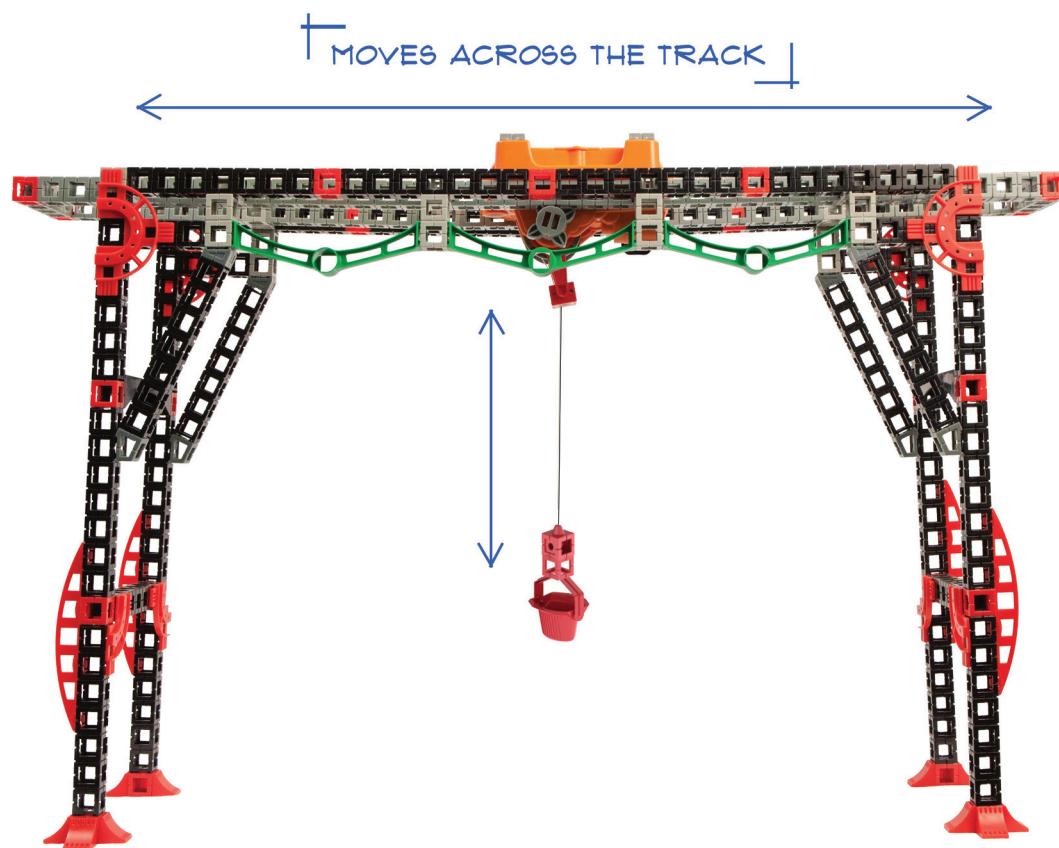
FINAL ASSEMBLY



ATTACHING THE WINCH STRING TO THE ELEVATOR

1. Guide the string from the cable guide up and over pulleys marked "A" and "B".
2. Guide string down and under pulley marked "C".
3. Guide string back up to the pulley marked "D".
4. Guide string back down to the string block marked "E", and slip the knotted end of the string into the block as shown.

GANTRY CRANE

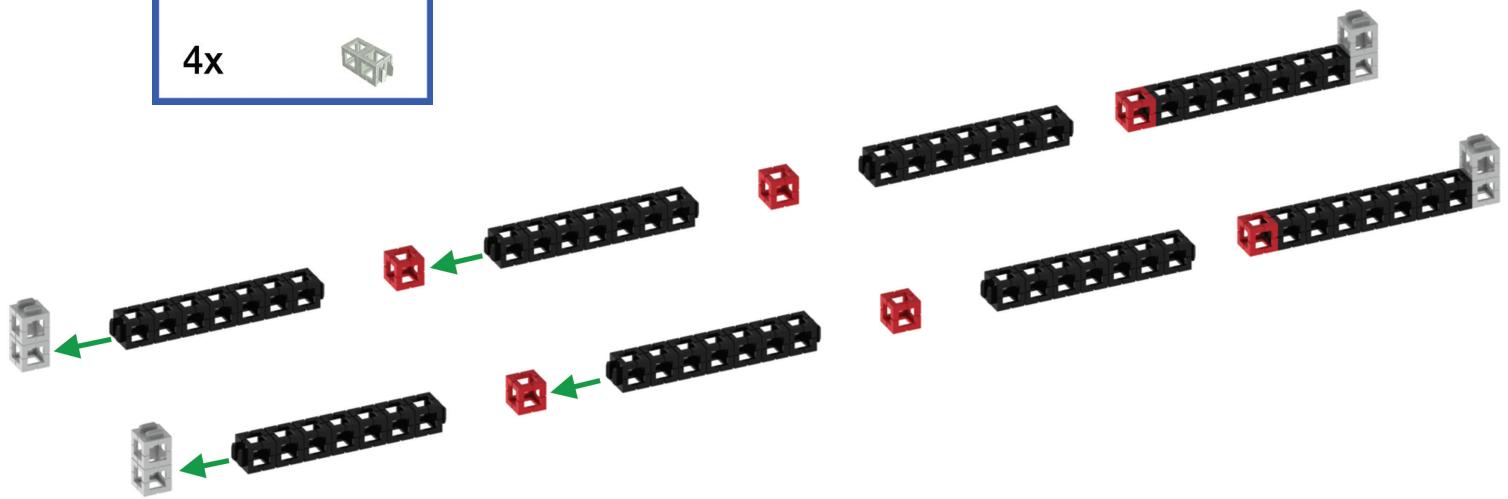
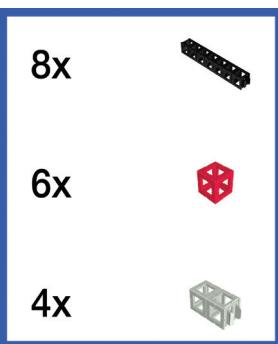


BILL OF MATERIALS

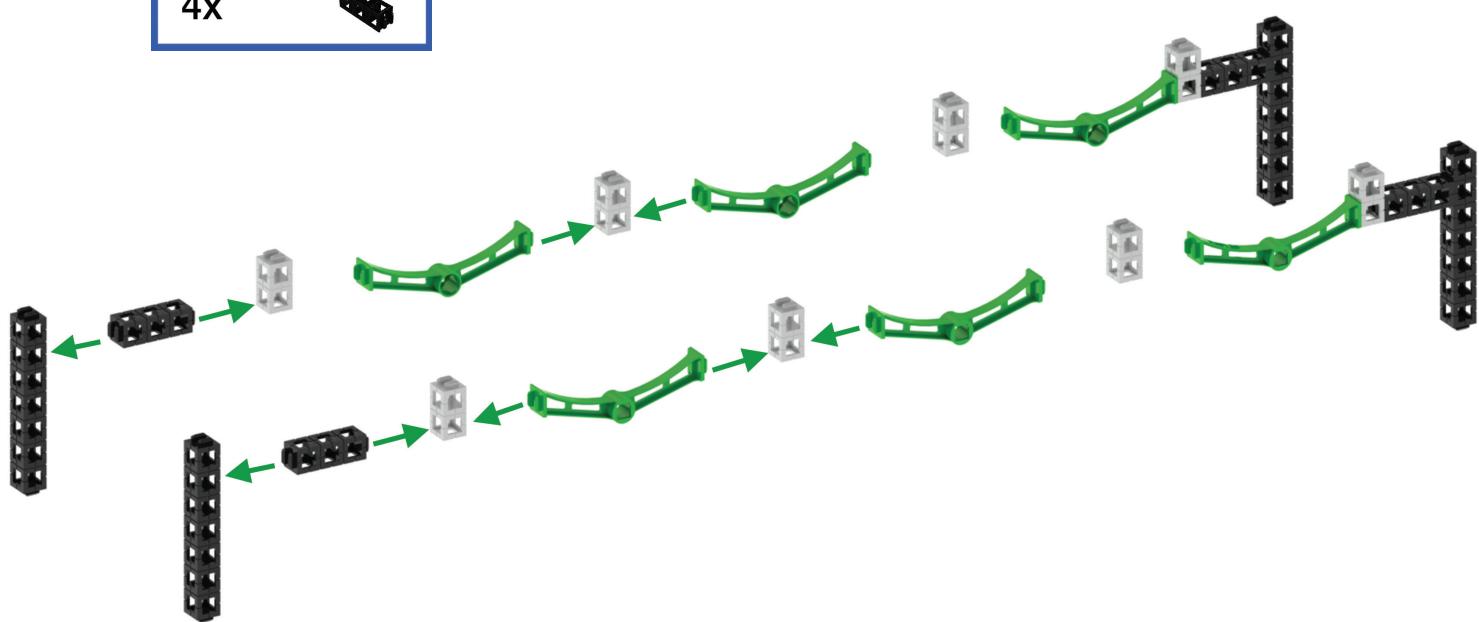
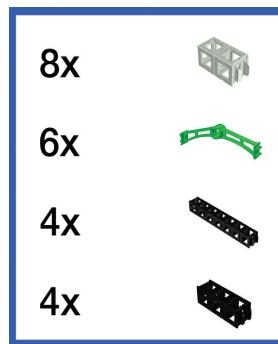
12x		4x		4x		4x		6x	
4x		8x		1x		15x		1x	
6x		4x		31x		1x		20x	
2x		11x		28x		10x		2x	
1x		1x		1x		1x		1x	

Color of building pieces may differ from those shown.

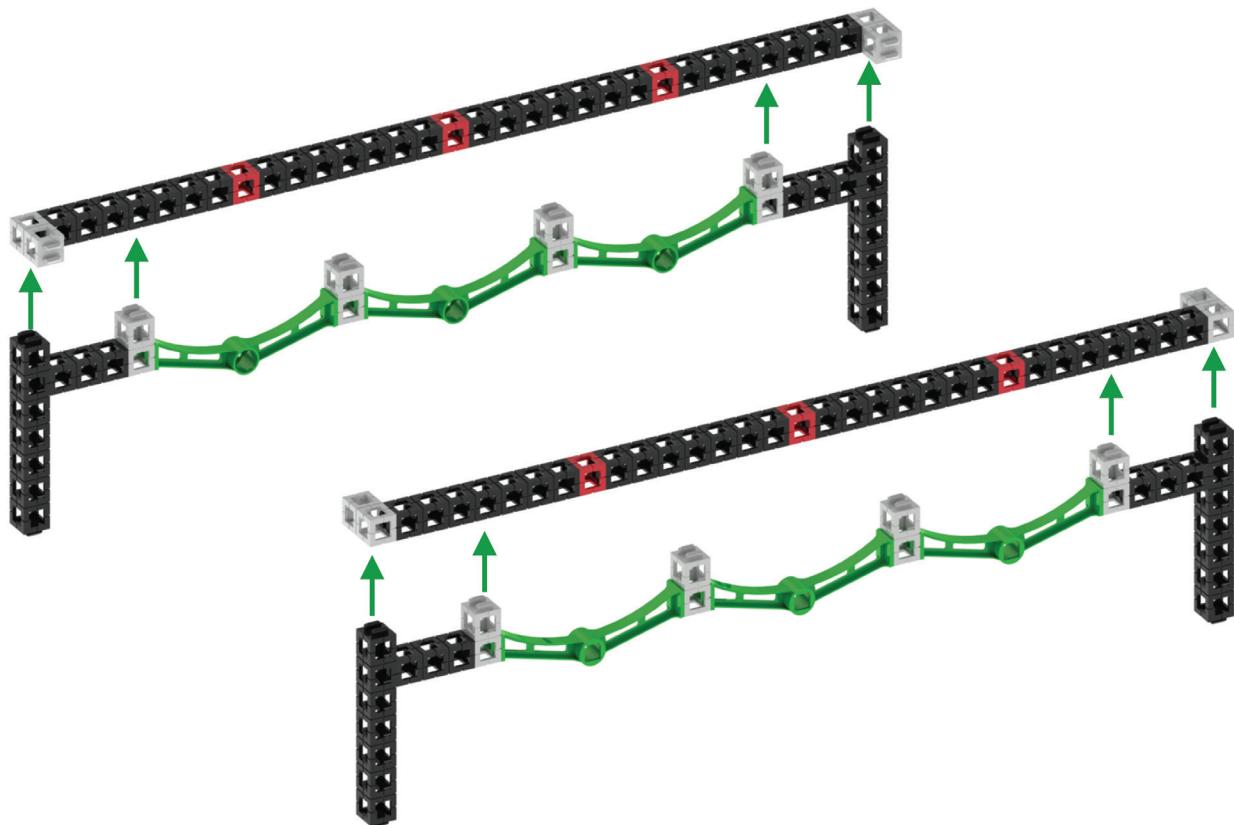
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2

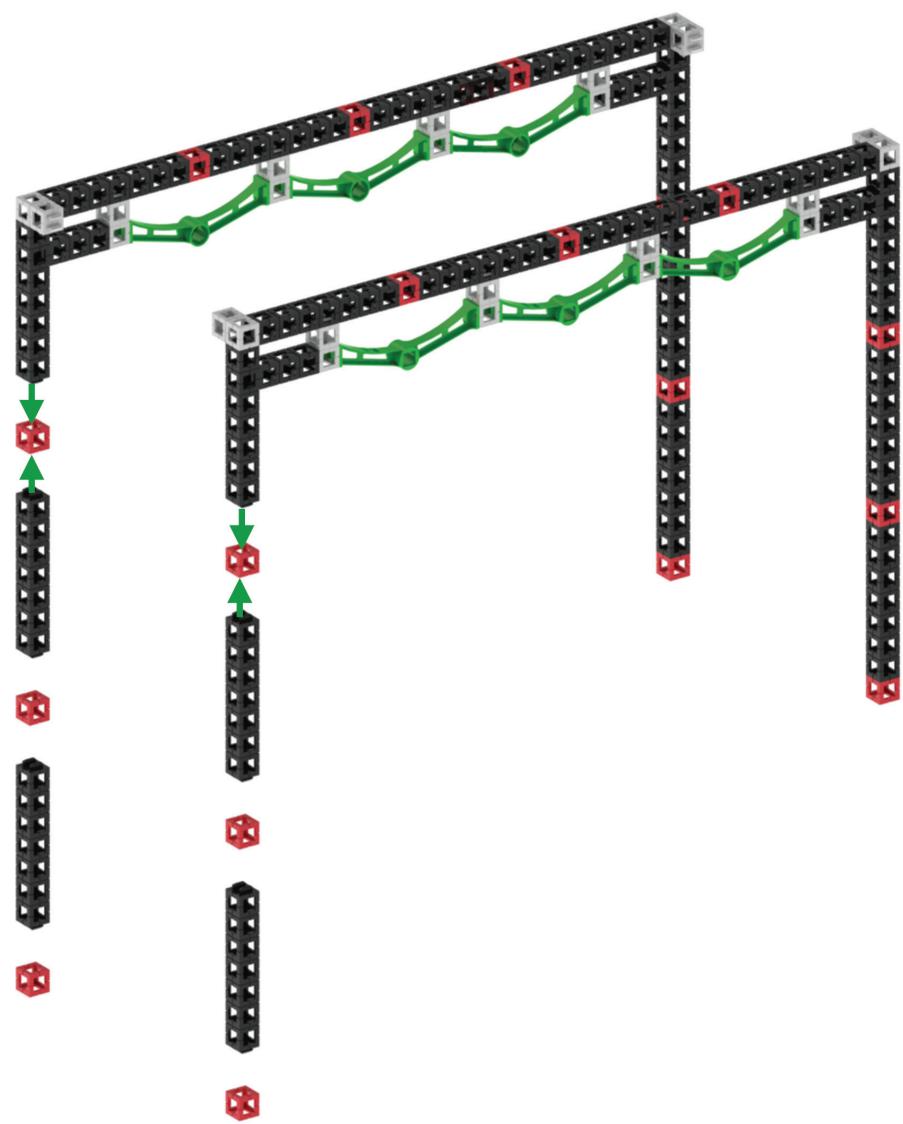


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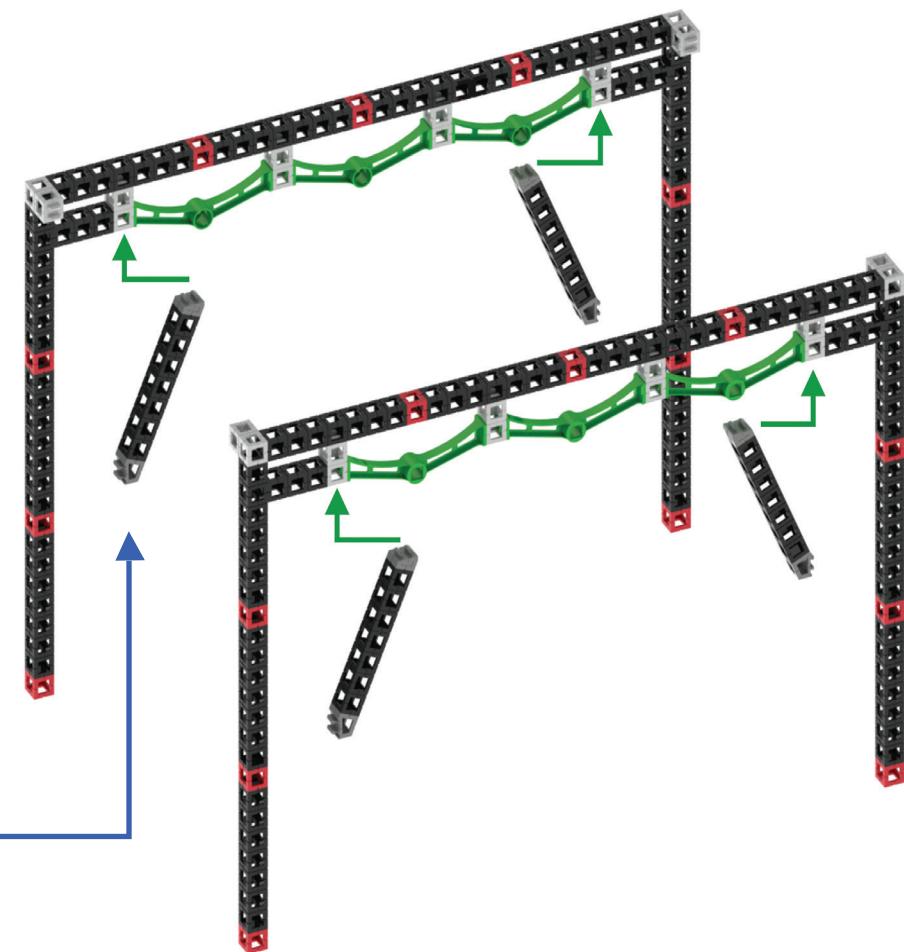
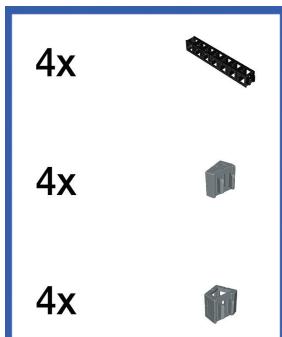


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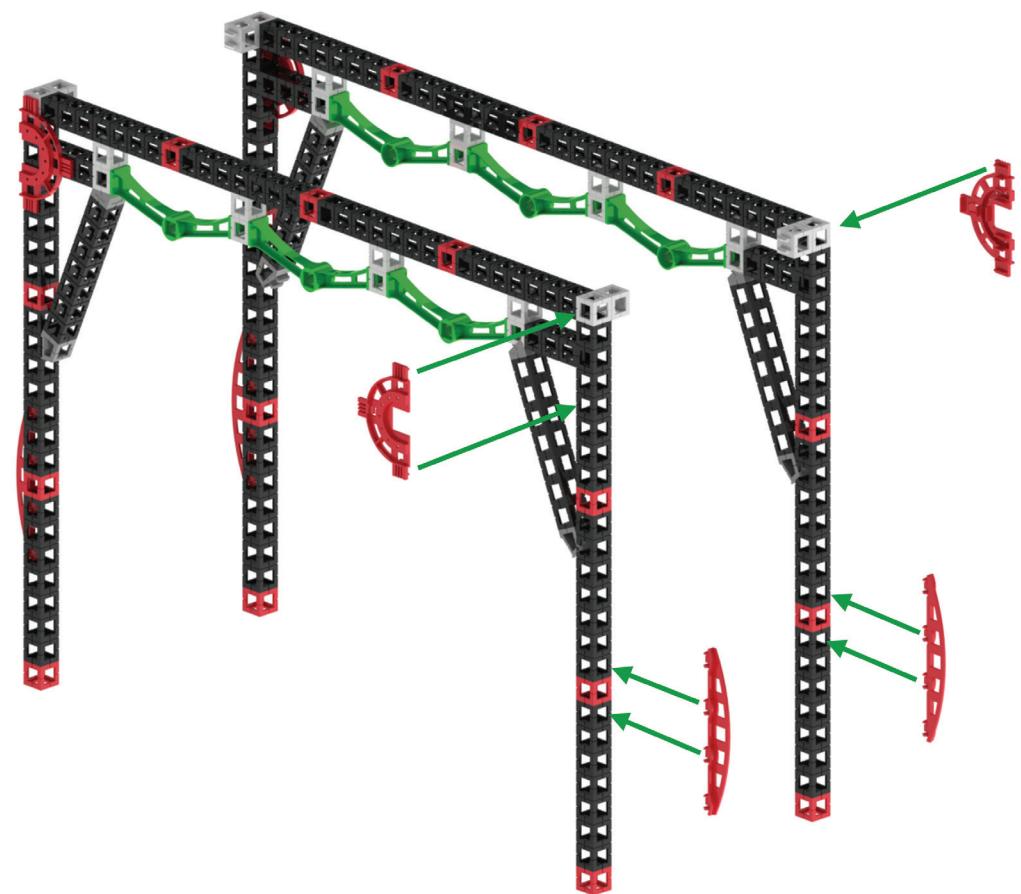
12x 8x



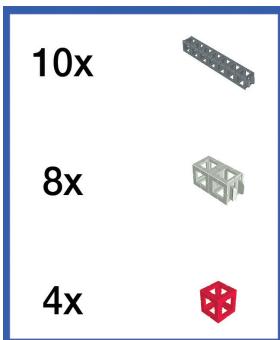
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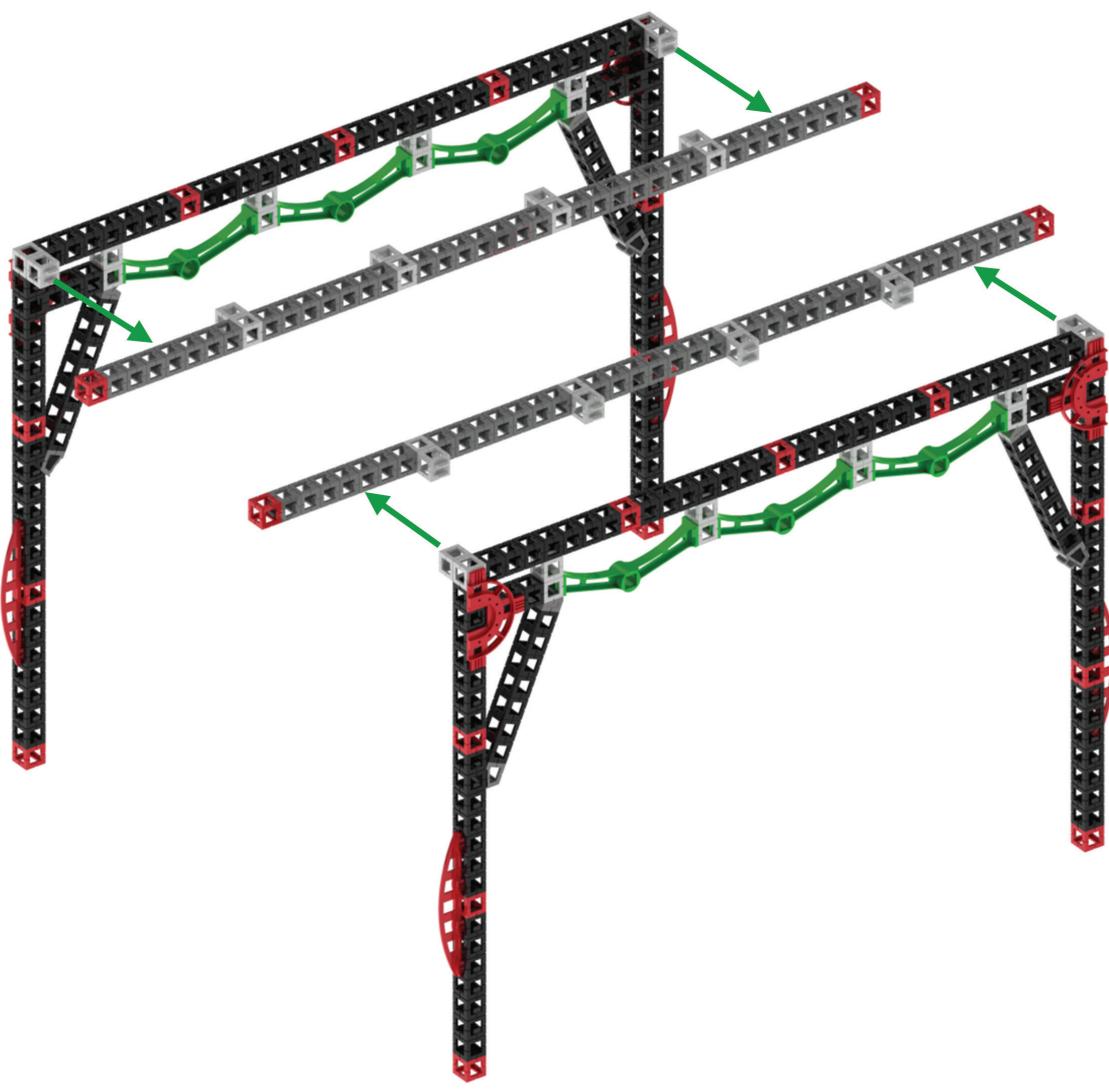
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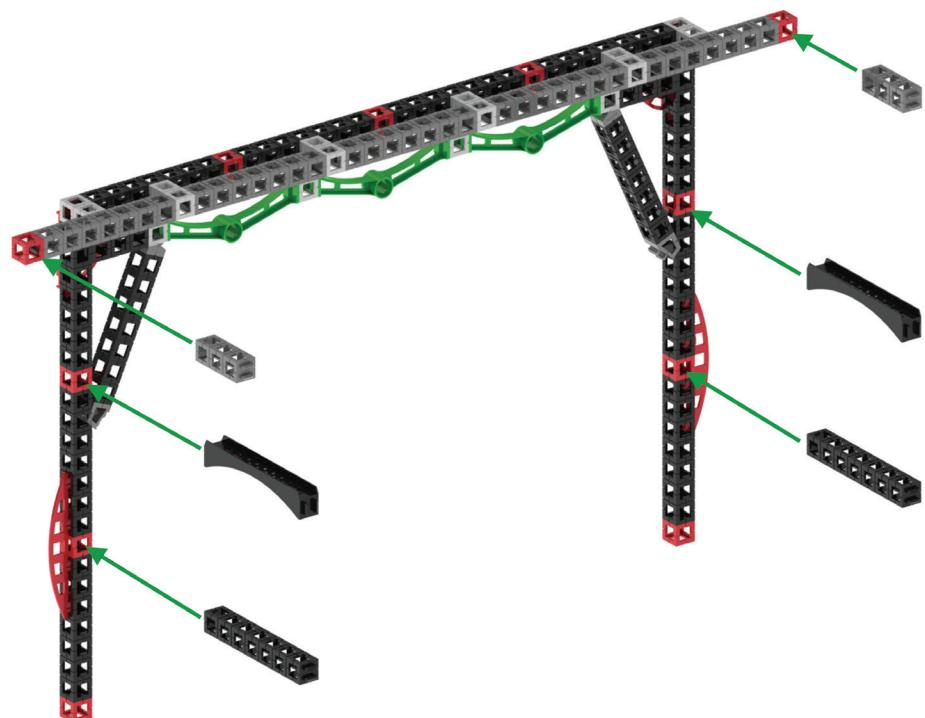
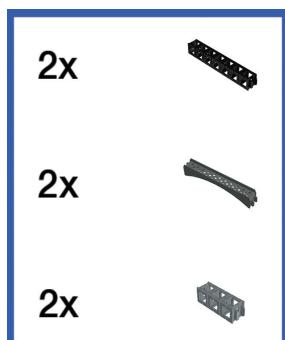
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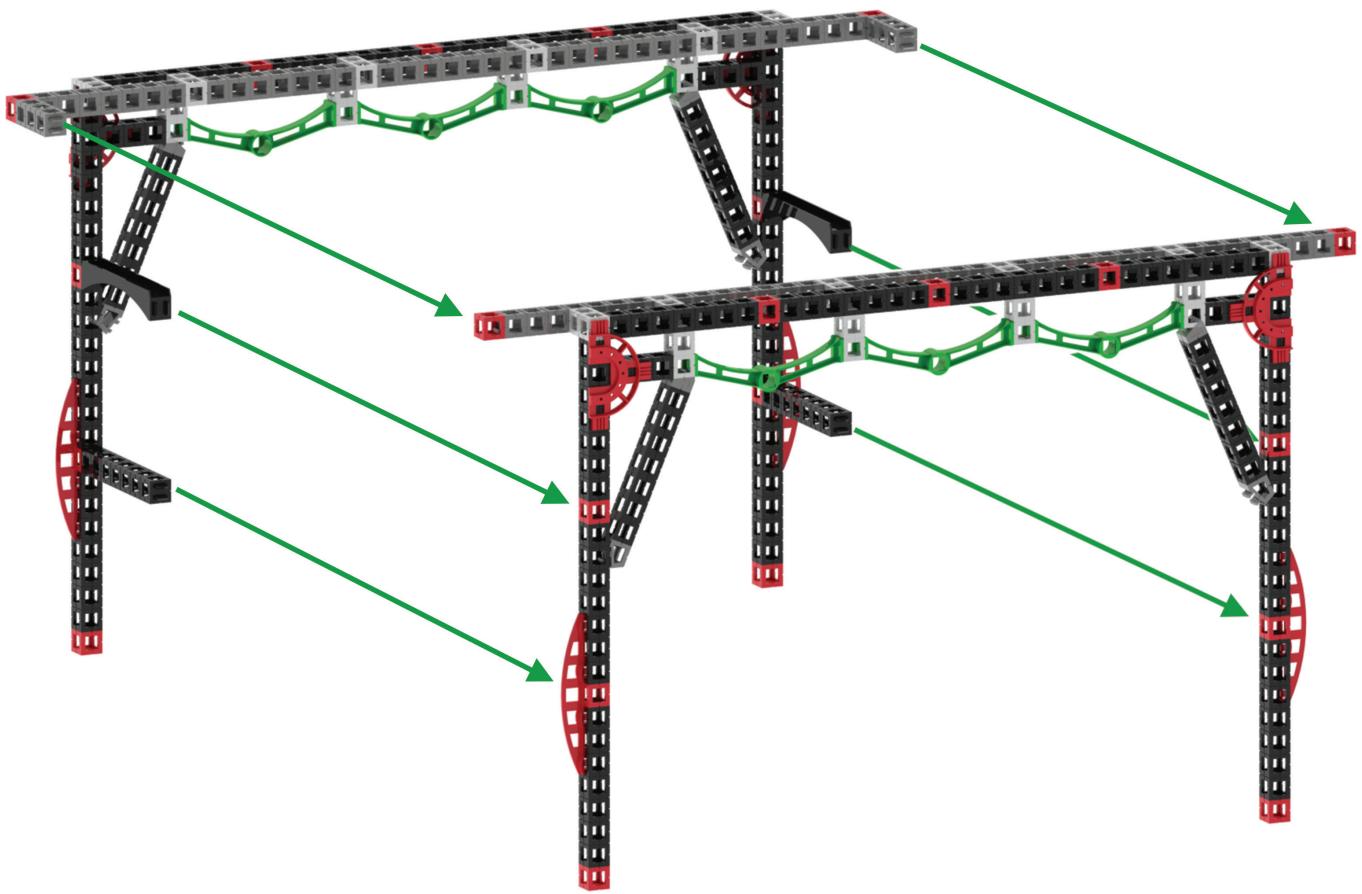
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9

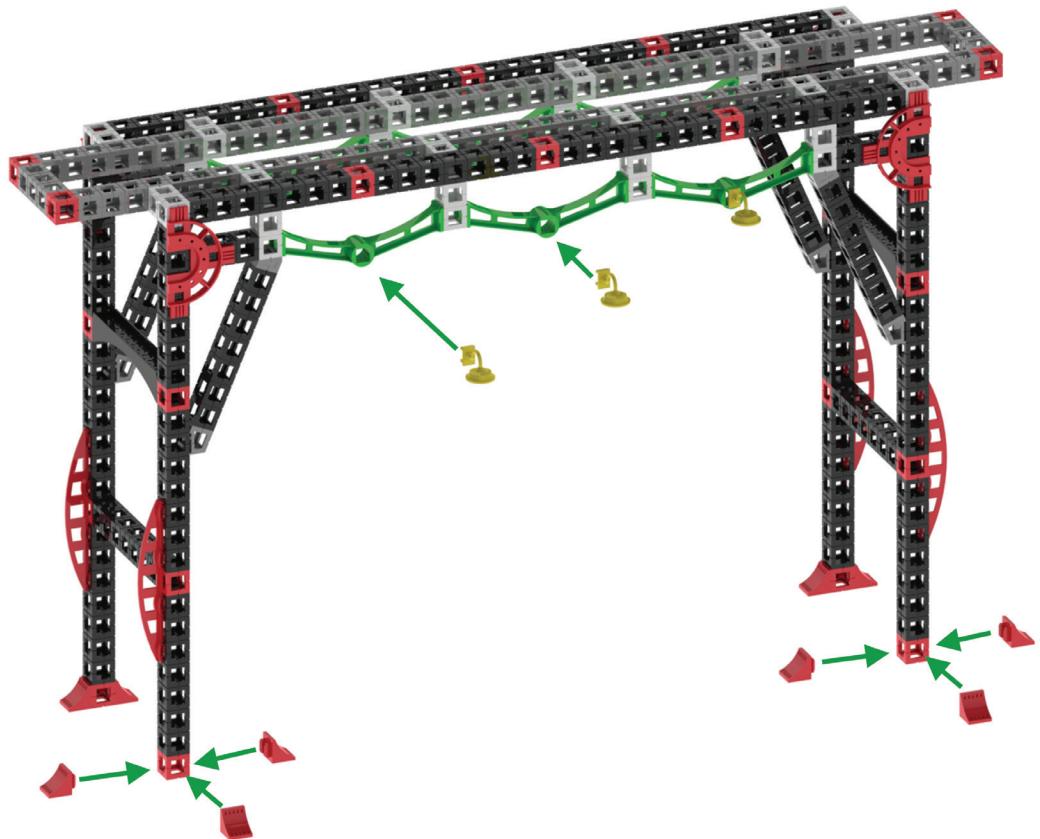


10



11

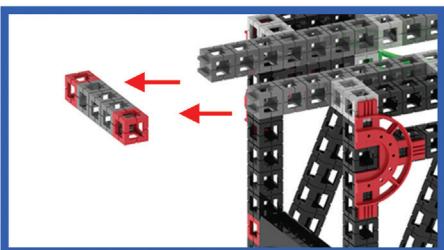
12x ⚡ 6x 💡



FEED THE X2 ONTO YOUR GANTRY CRANE

12

A.

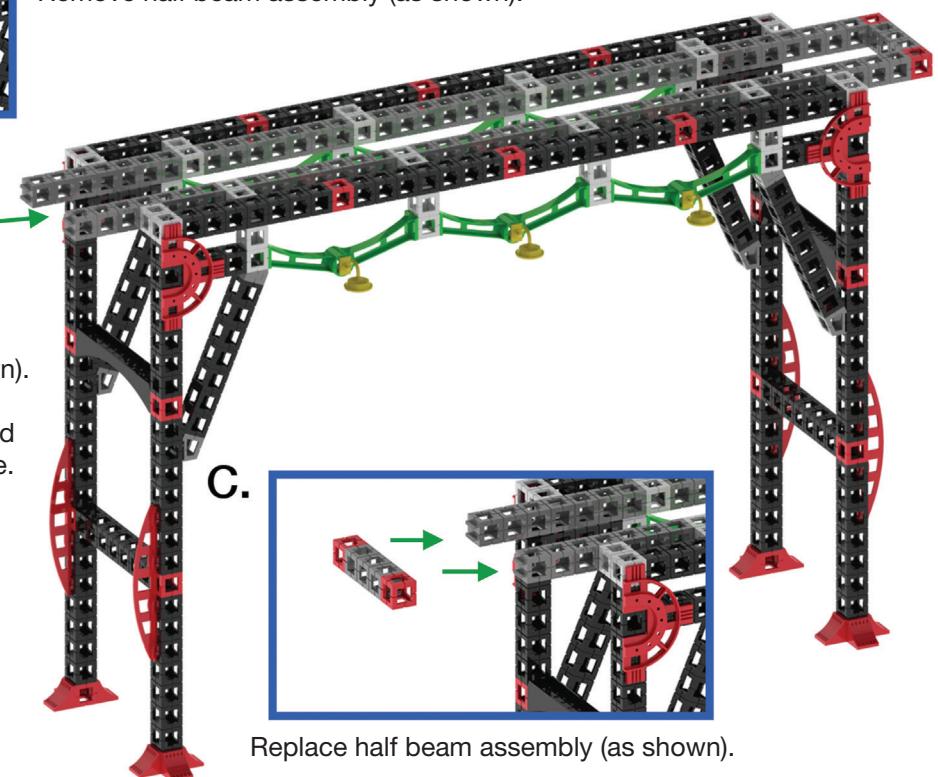


Remove half beam assembly (as shown).

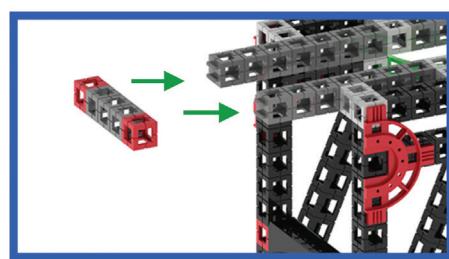
B.



Turn X2 upside down (as shown).
Using the ROK Star Controller
directional wheel, press forward
and feed X2 onto Gantry Crane.

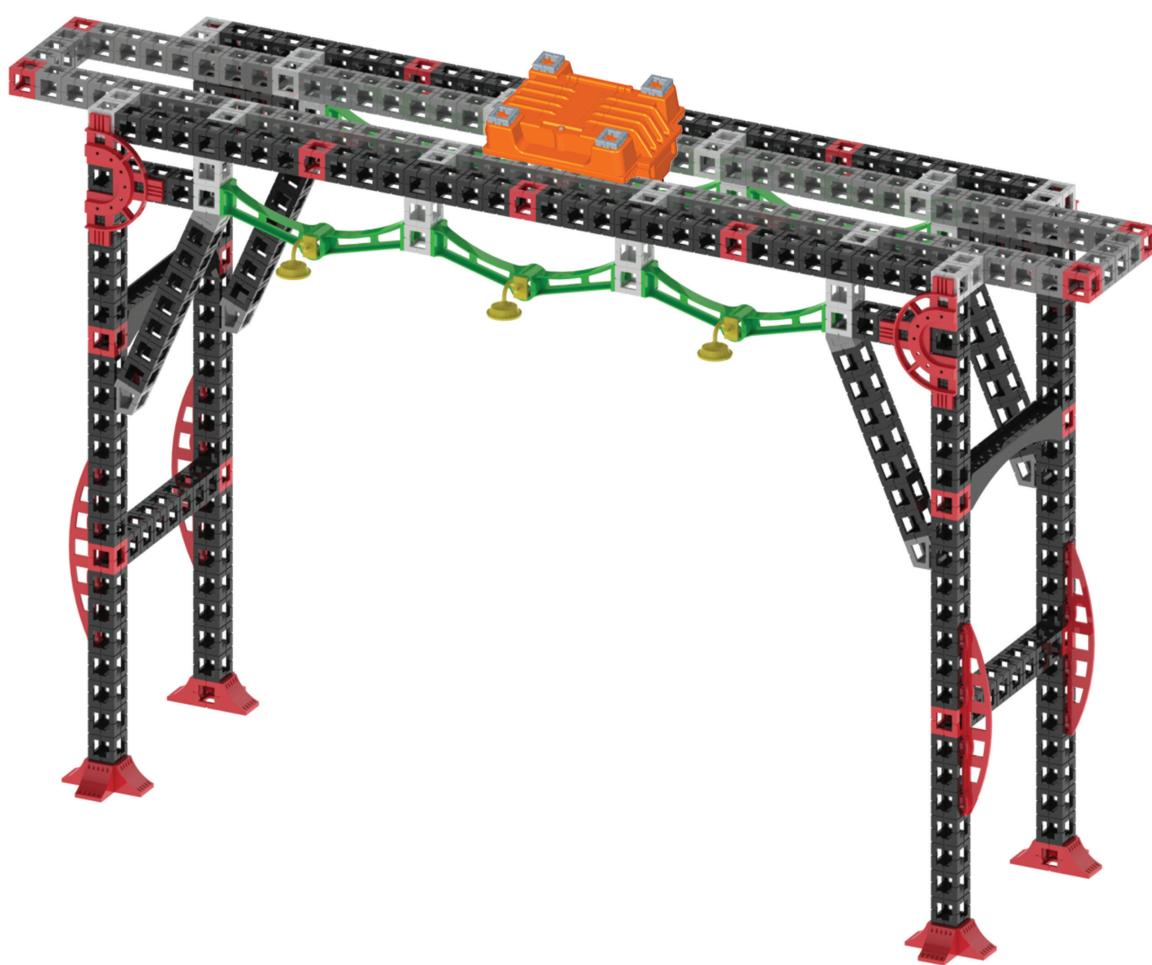


C.



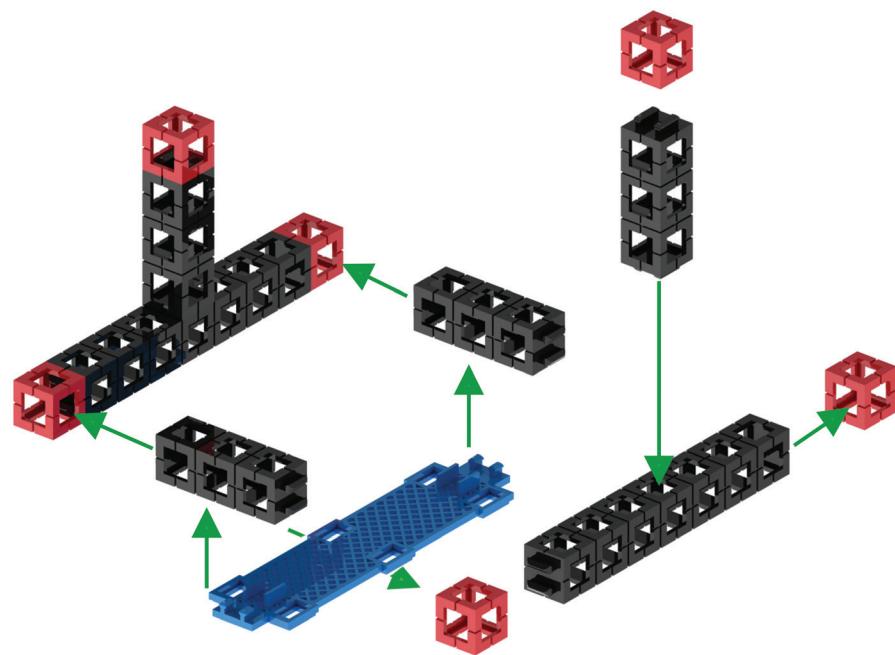
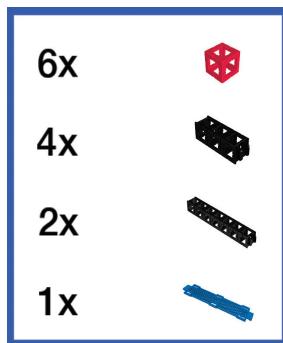
Replace half beam assembly (as shown).

13



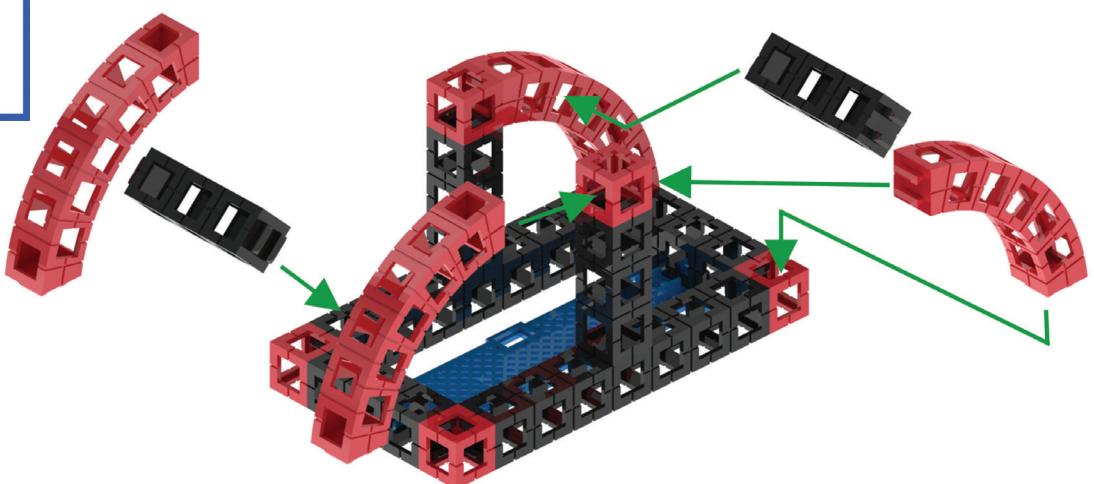
GANTRY CRANE EXTENSION - TRAILER

1



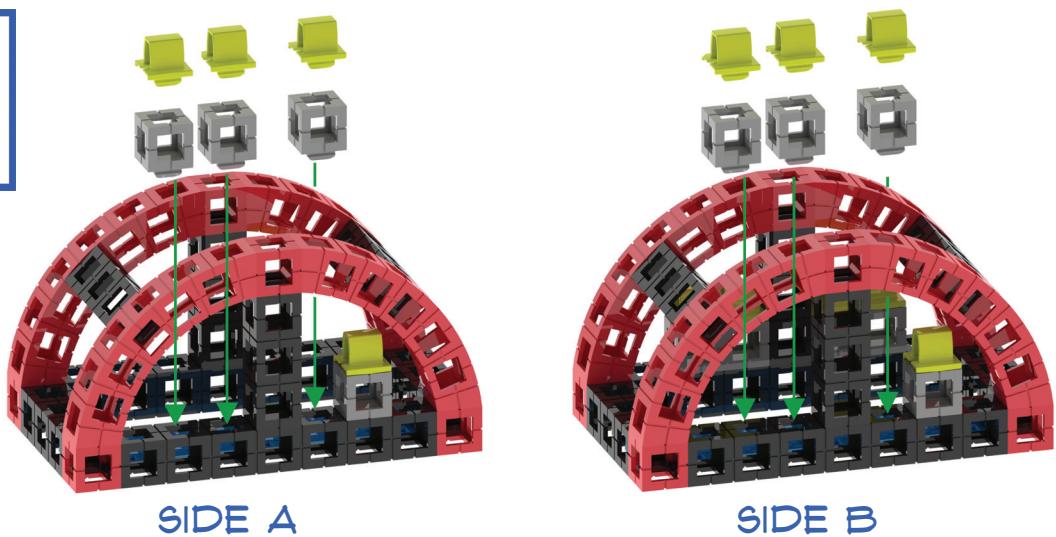
2

4x 2x



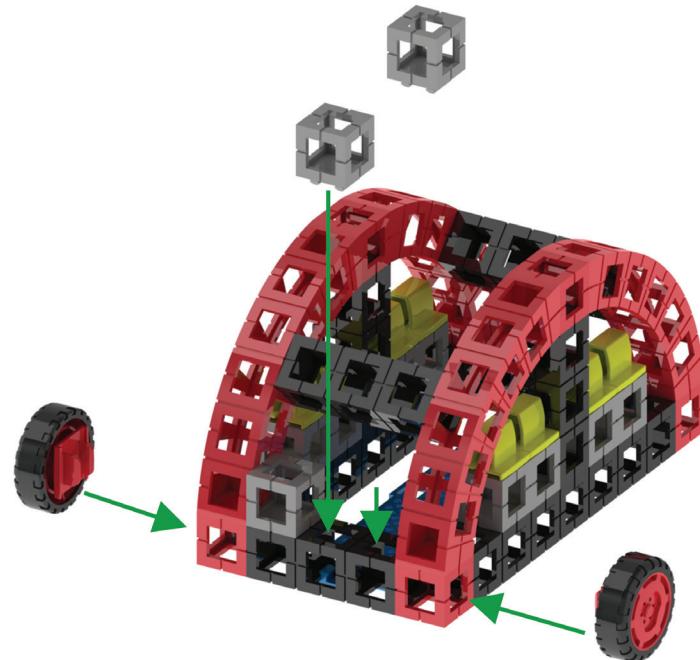
3

8x 8x



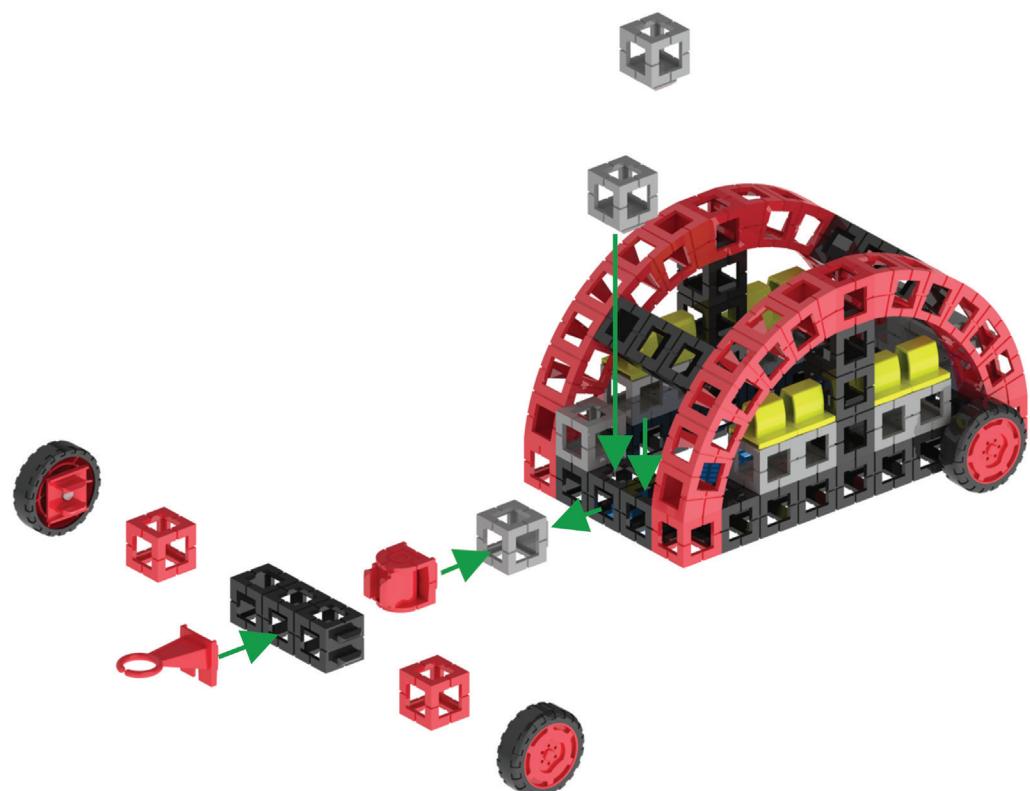
4

3x 2x

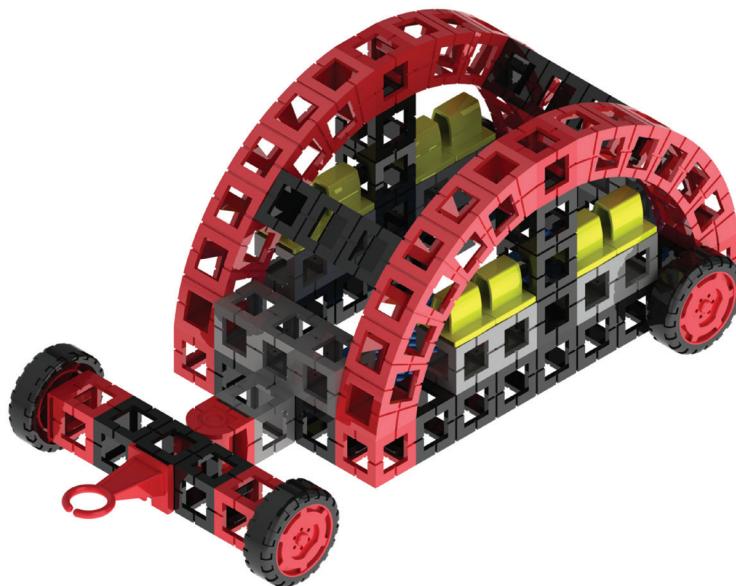


5

4x	
2x	
2x	
1x	
1x	
1x	



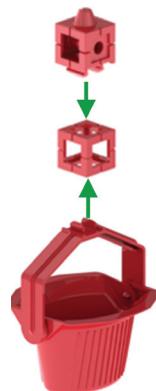
FINAL ASSEMBLY



ADDITIONAL GANTRY CRANE EXTENSION - BUCKET AND HOOK

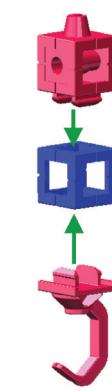
1

1x	
1x	
1x	

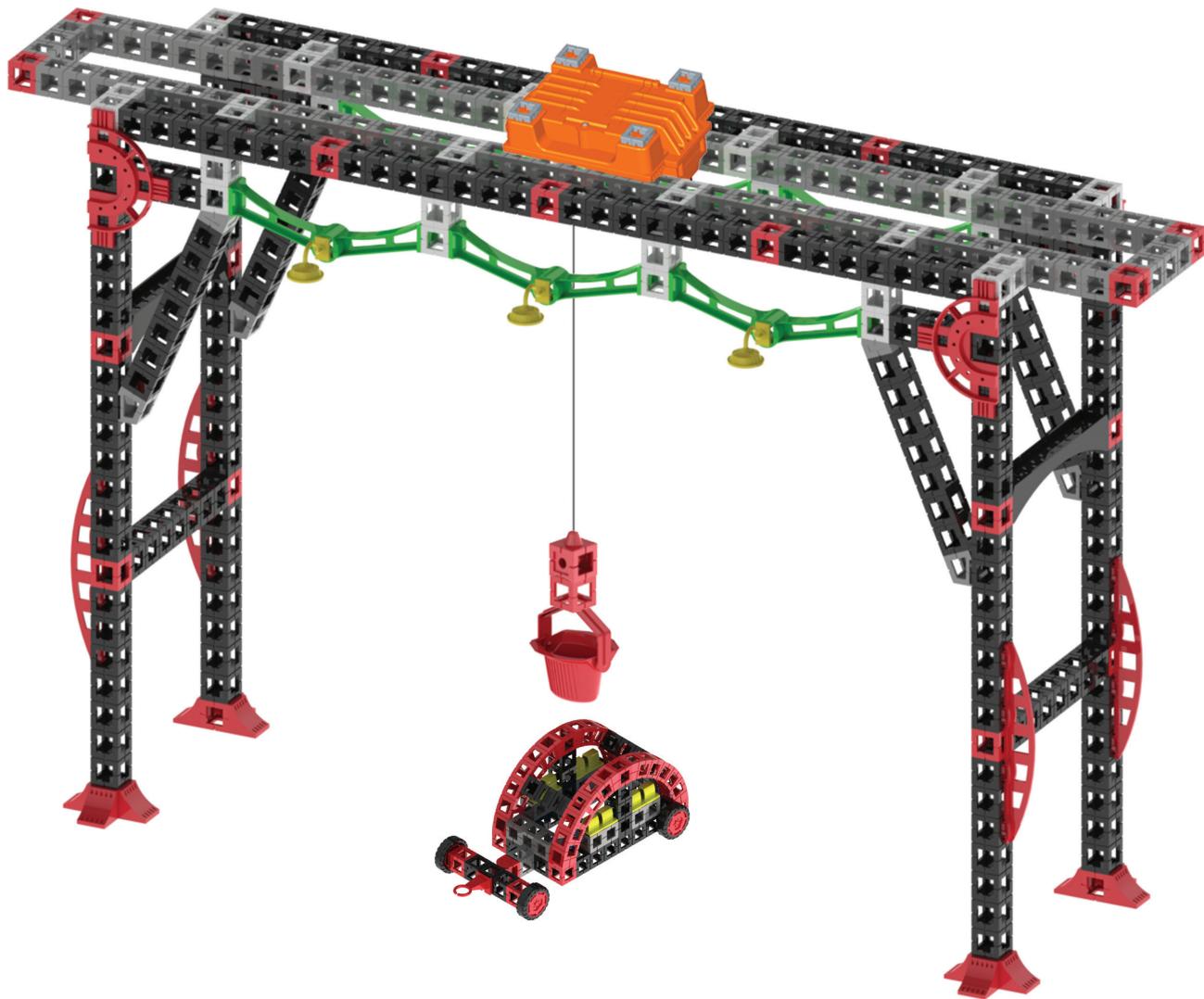


2

1x	
1x	
1x	



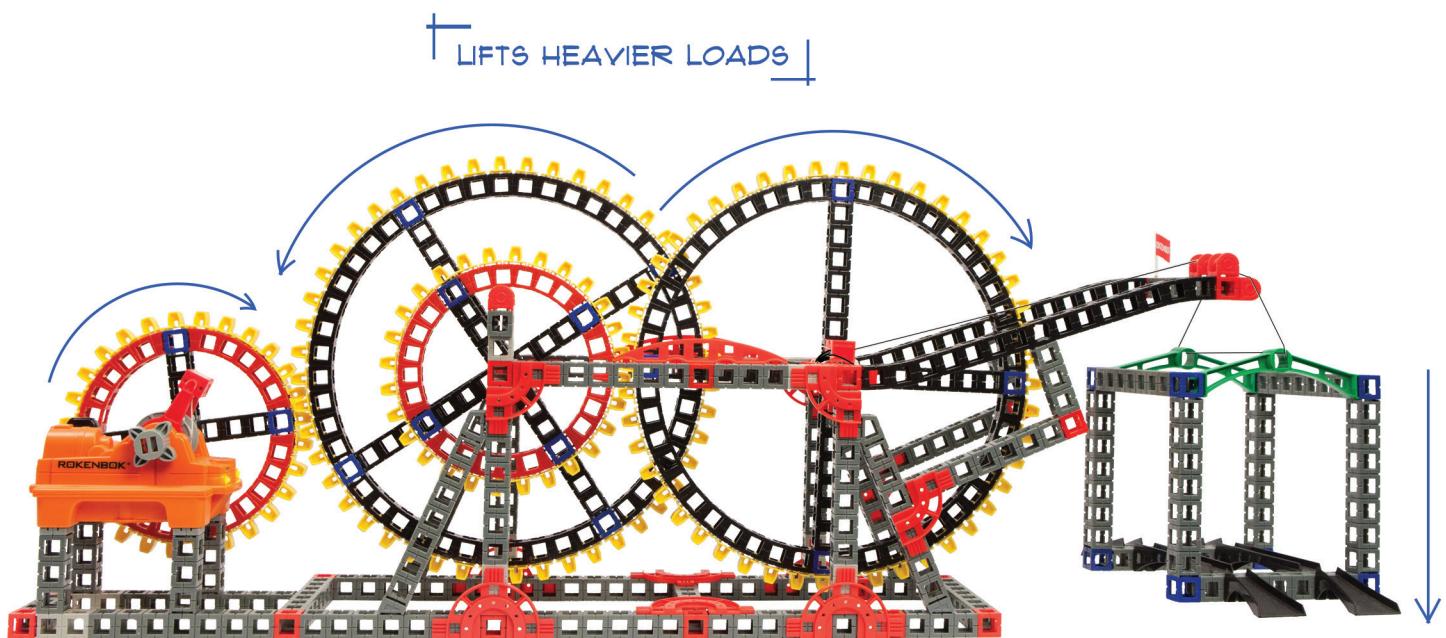
FINAL ASSEMBLY WITH EXTENSIONS



CREATE YOUR OWN ADVENTURE!



GEAR CRANE

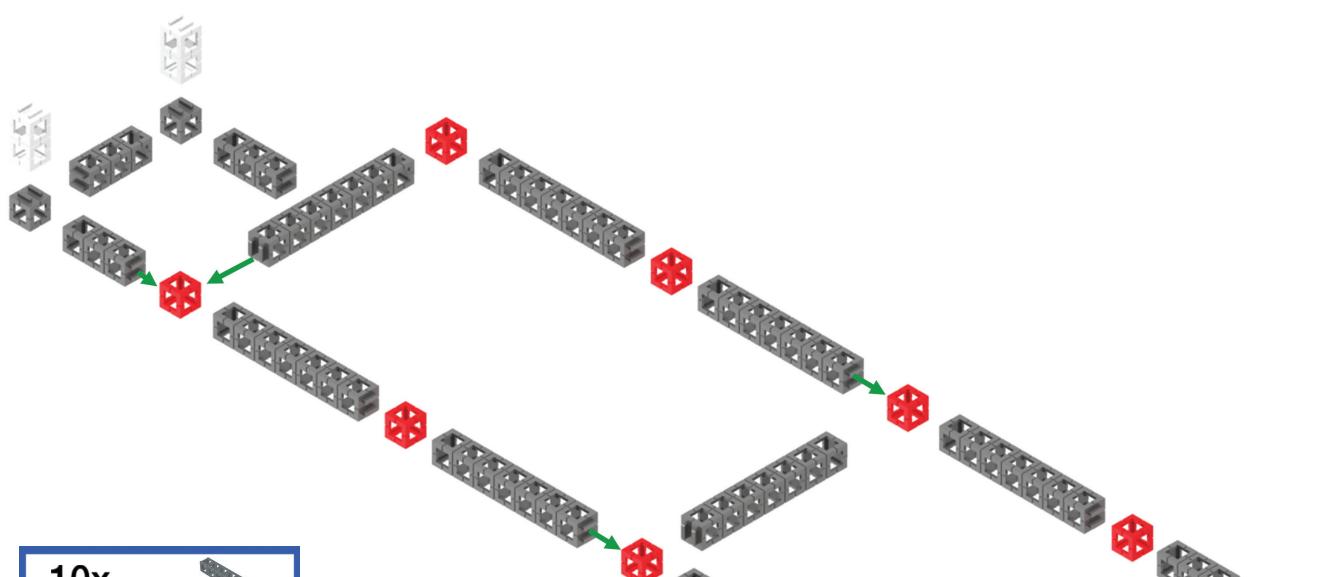
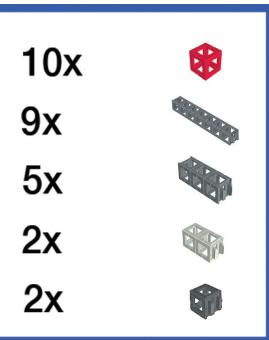


BILL OF MATERIALS

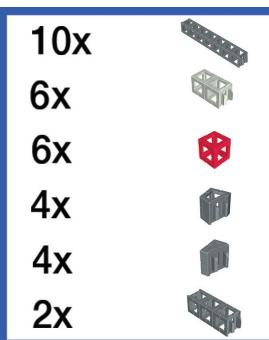
16x		4x		4x		2x		2x	
6x		6x		152x		5x		8x	
2x		8x		20x		26x		17x	
10x		8x		8x		30x		2x	
6x		1x		4x		4x		1x	

Color of building pieces may differ from those shown.

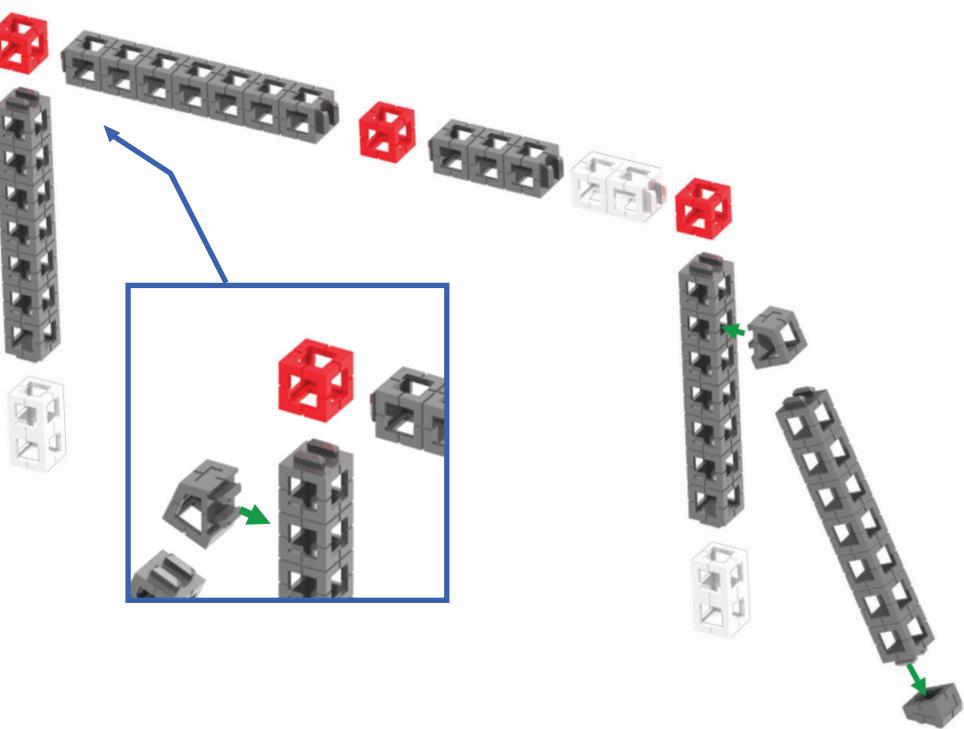
1



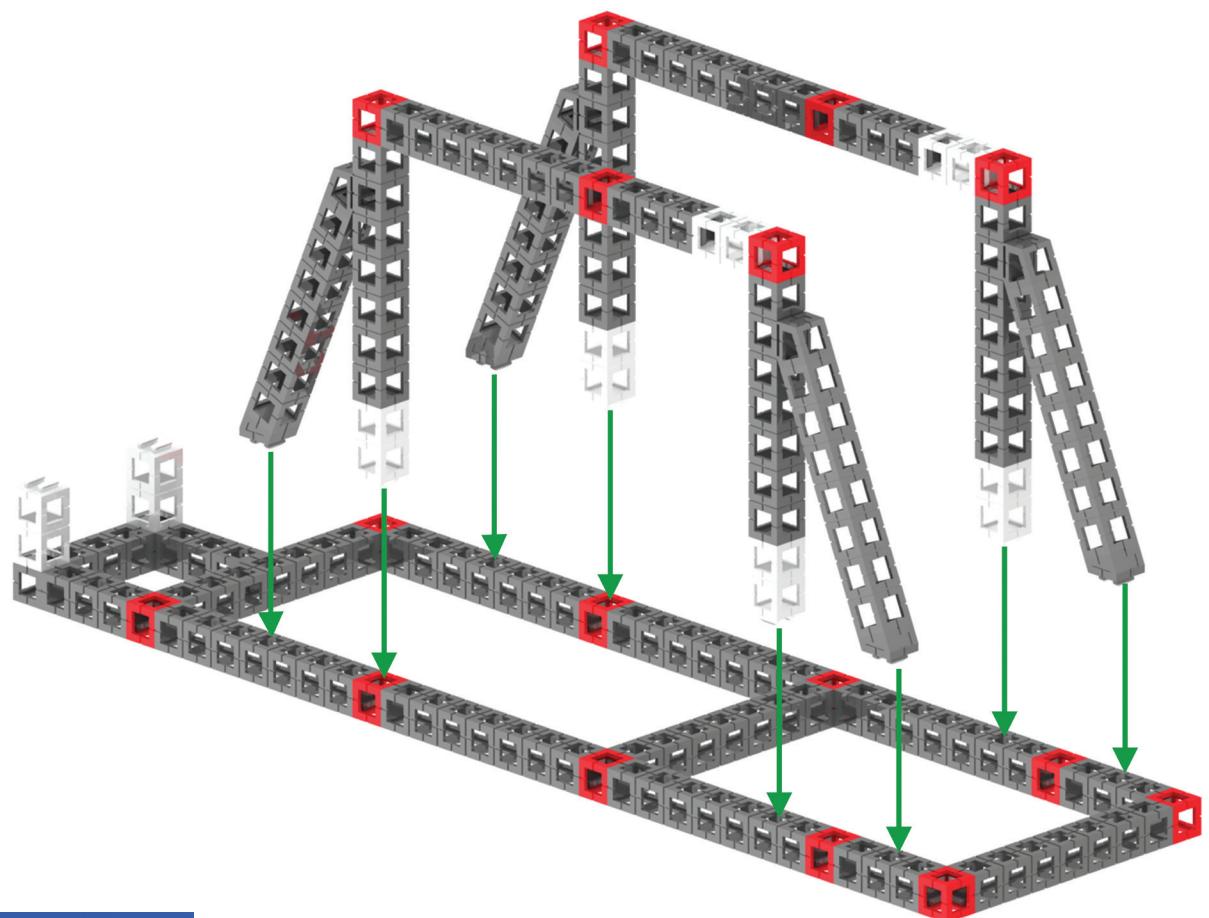
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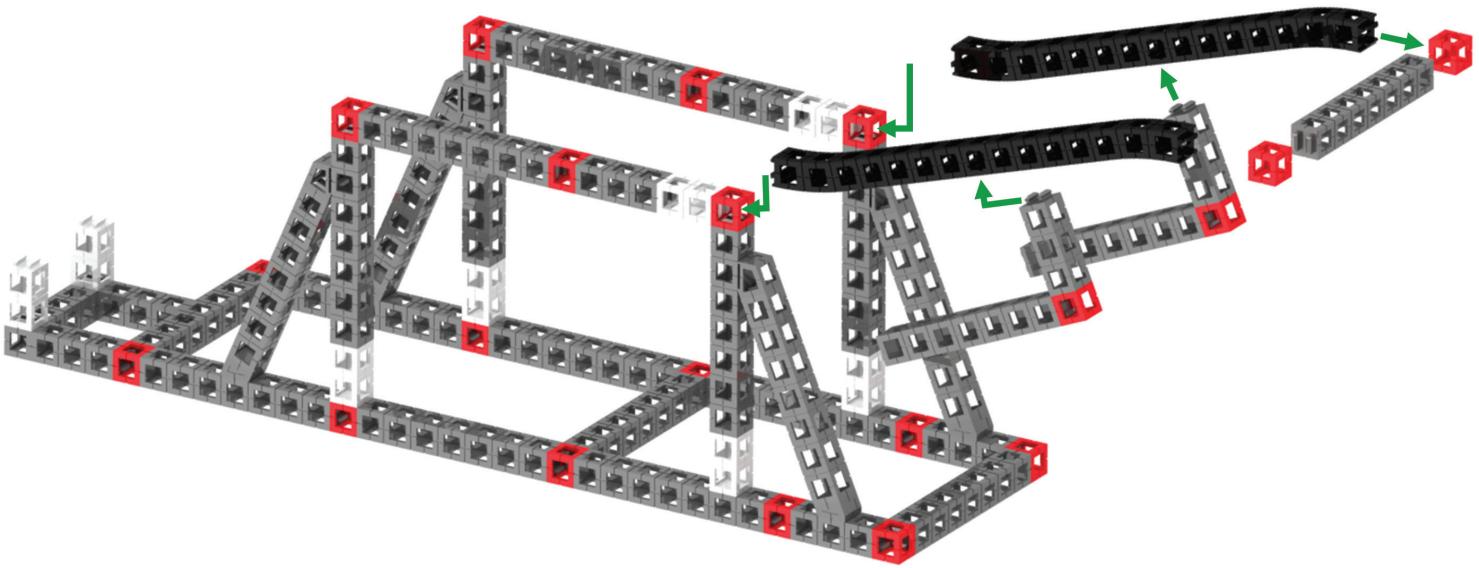
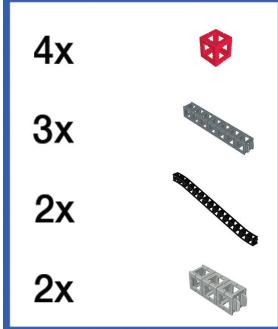
2x



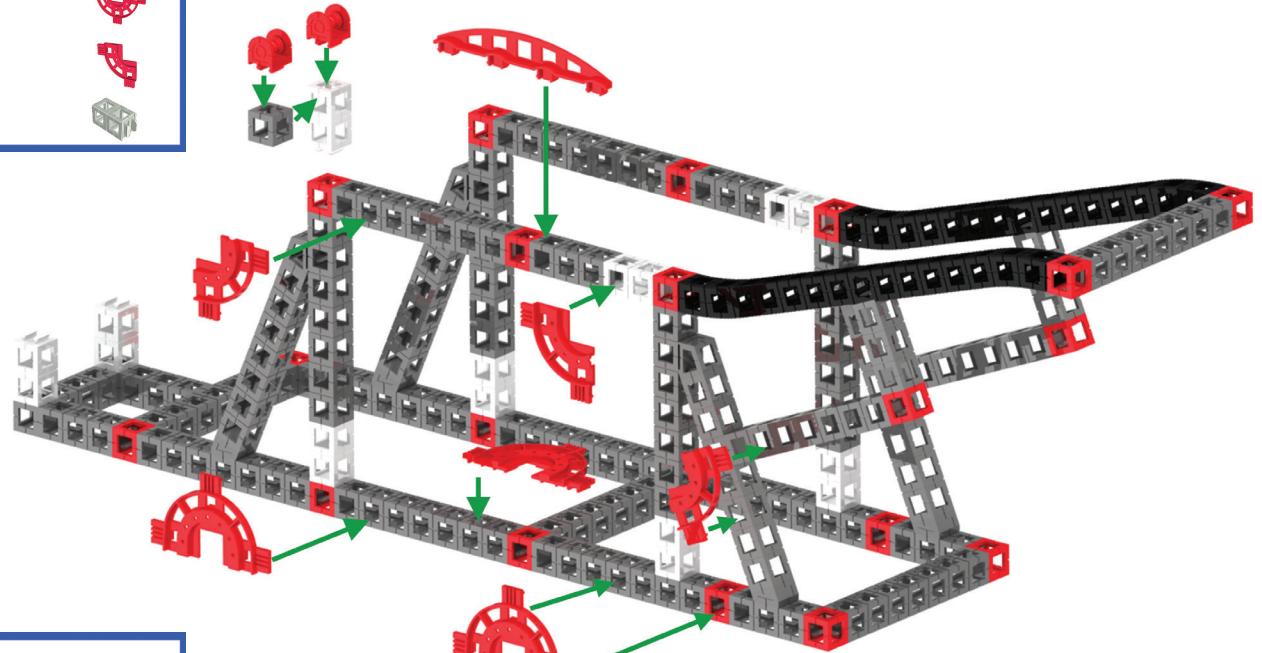
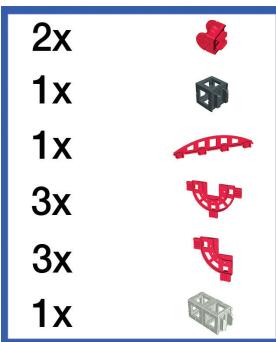
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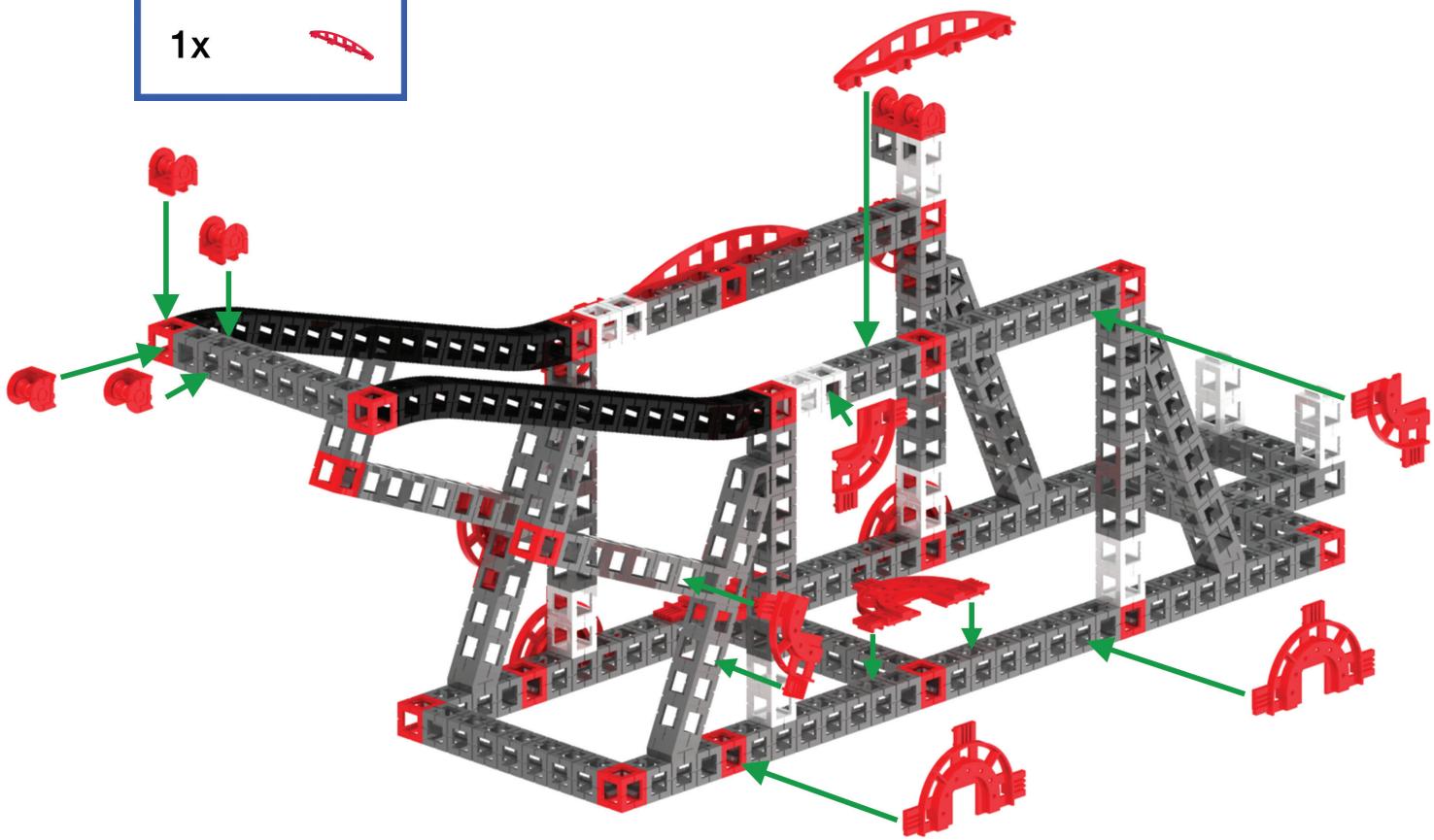
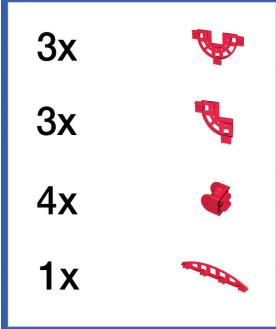
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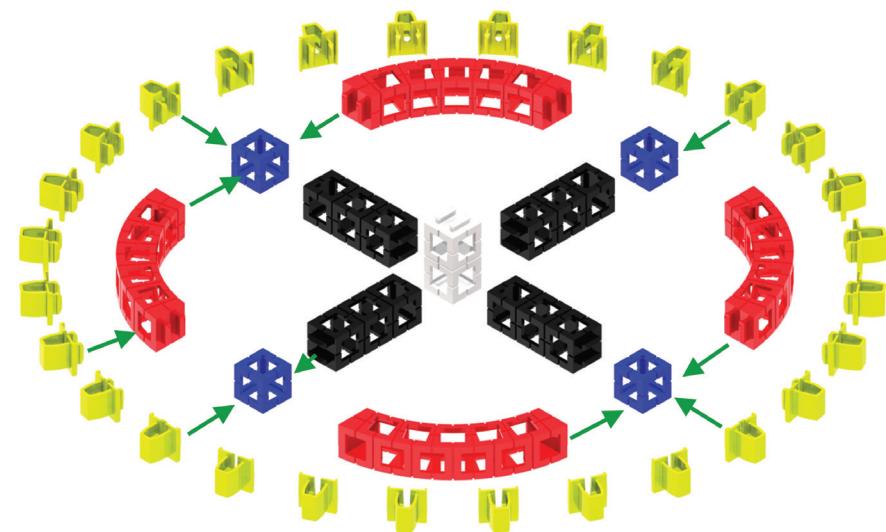
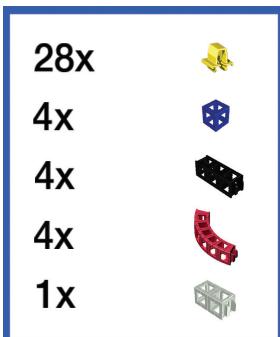
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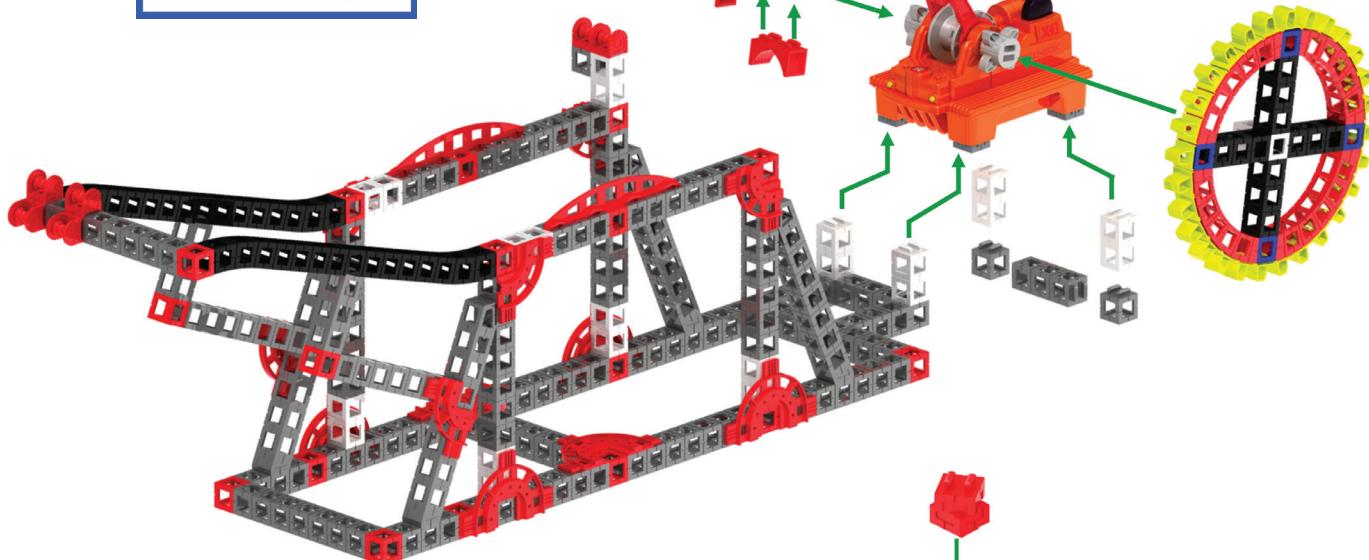
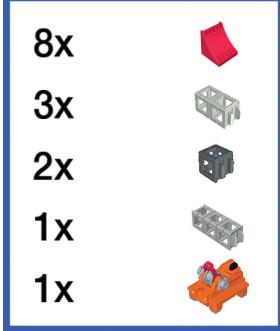
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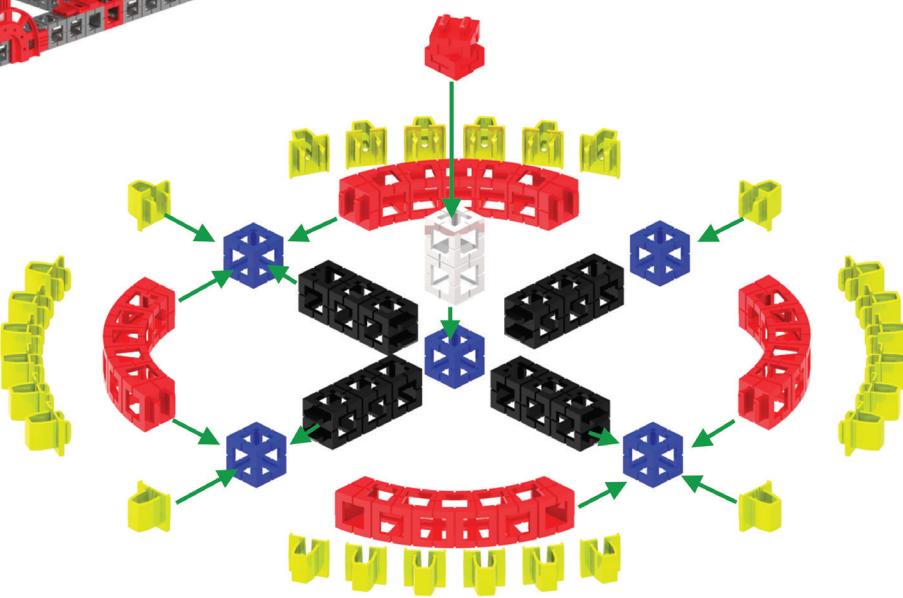
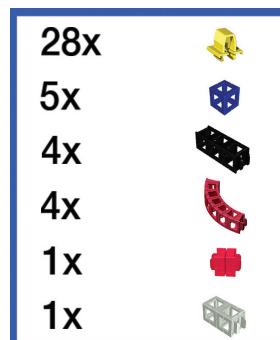
7



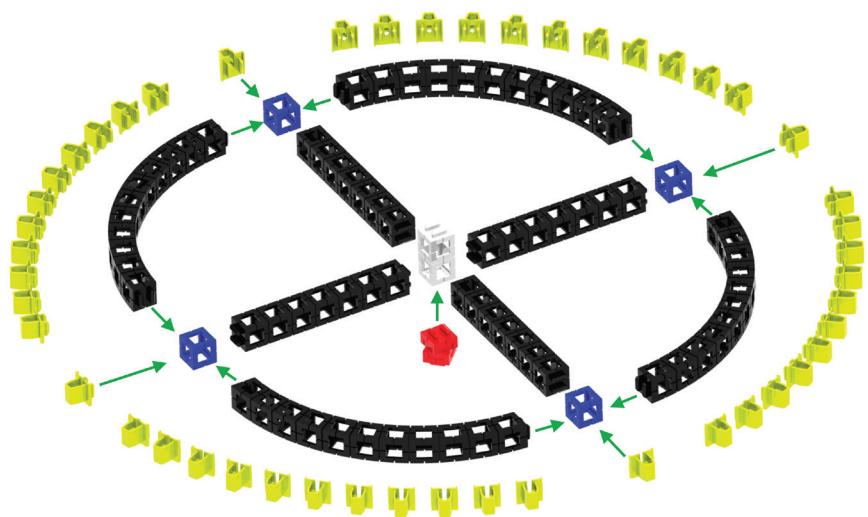
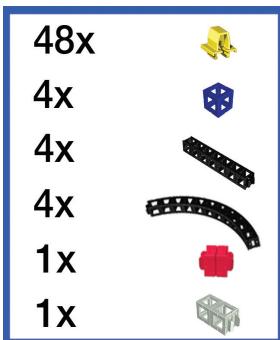
8



9



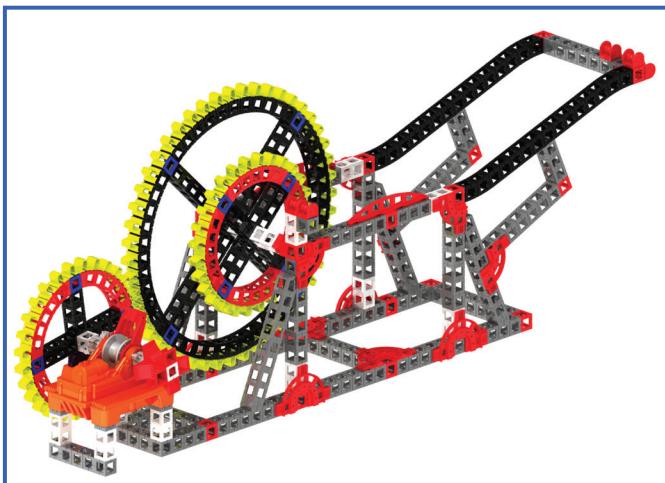
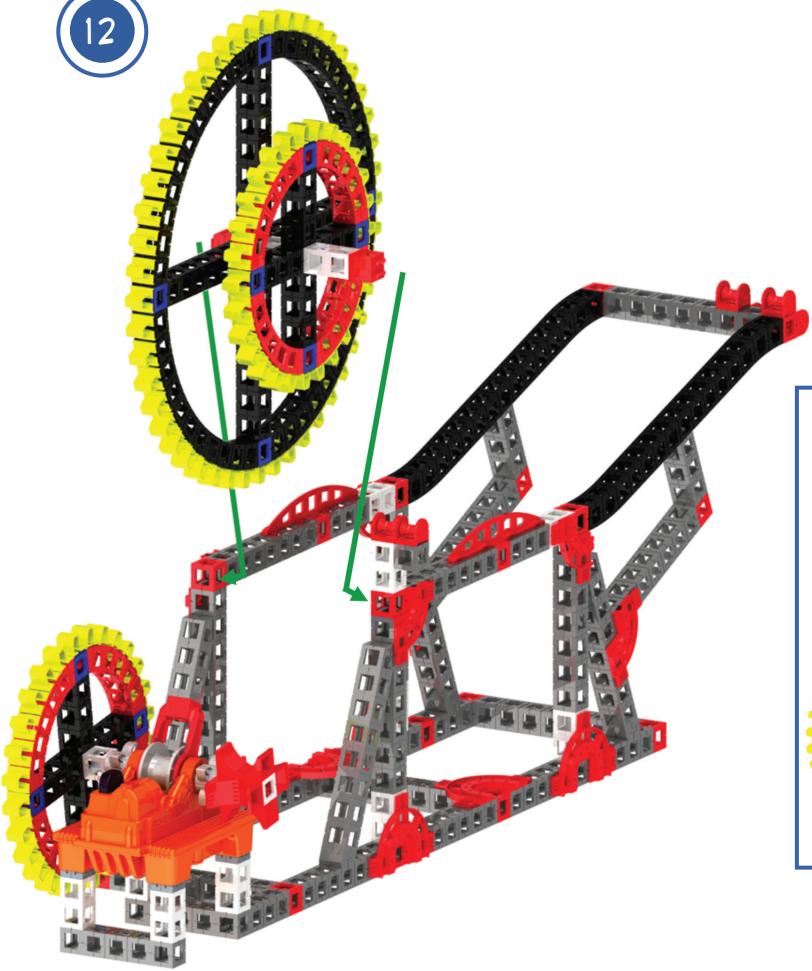
10



11

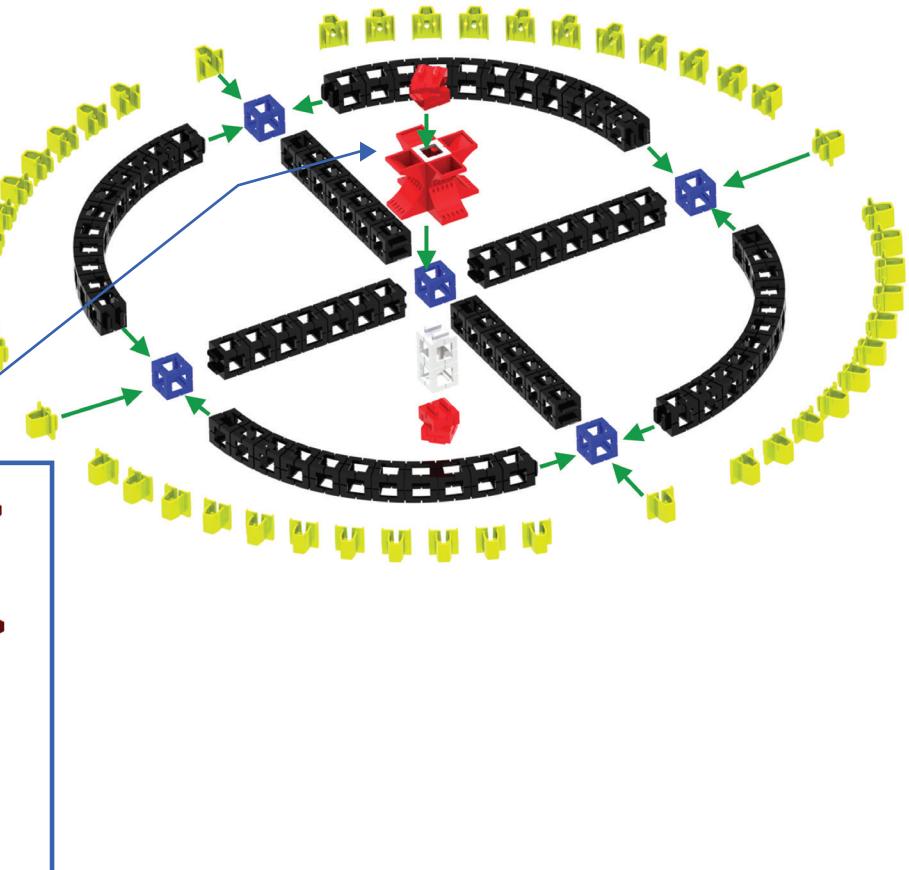


12



13

48x	
8x	
5x	
4x	
4x	
2x	
2x	

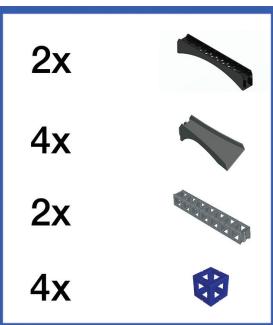


14

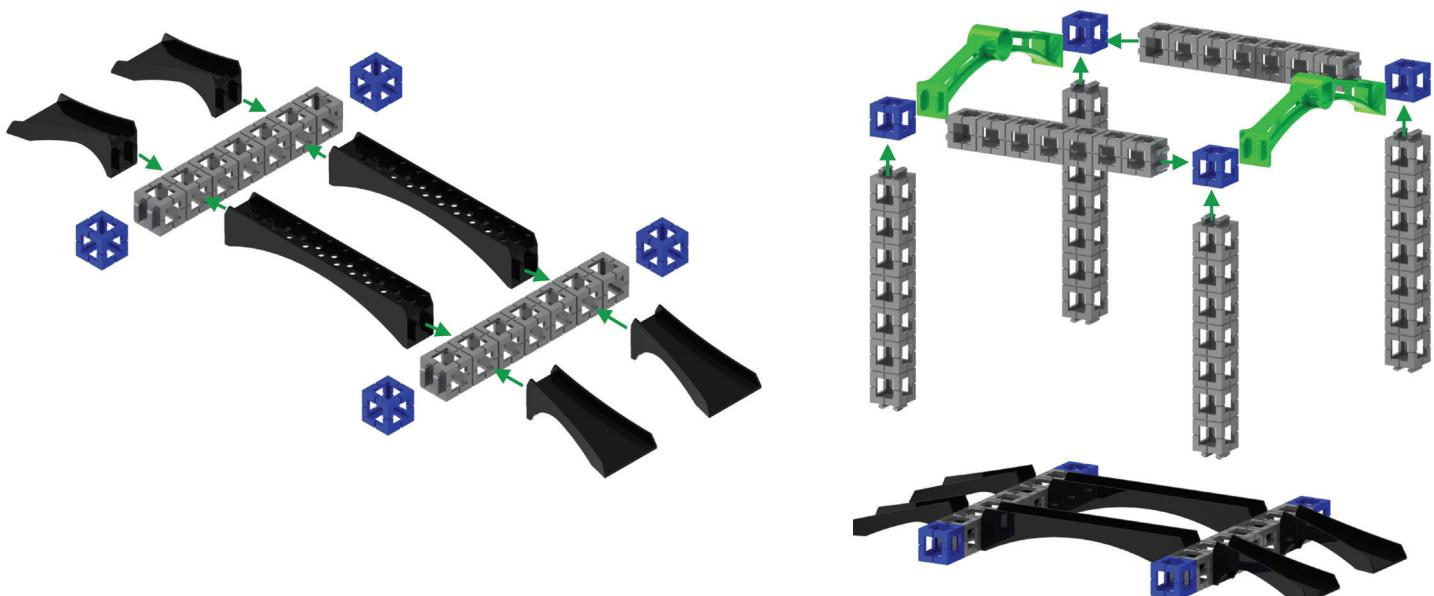
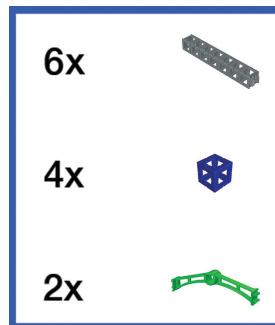


GEAR CRANE EXTENSION - ELEVATOR

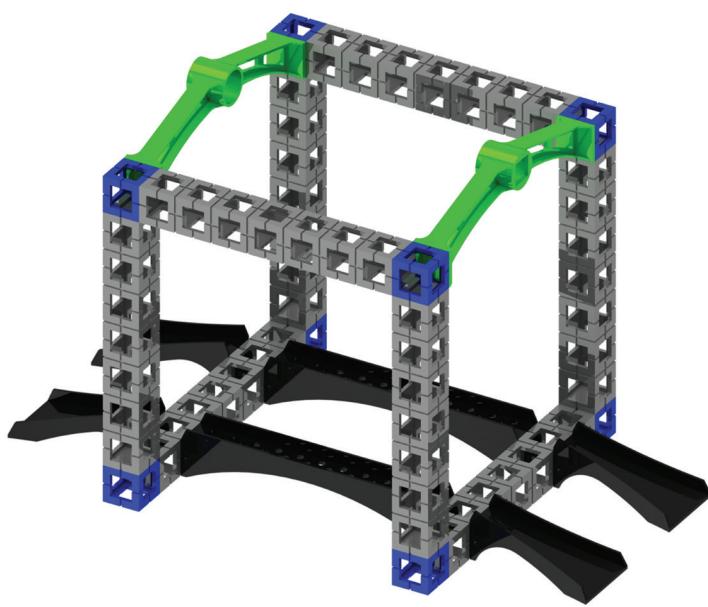
1



2

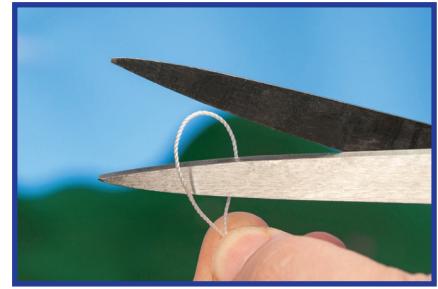
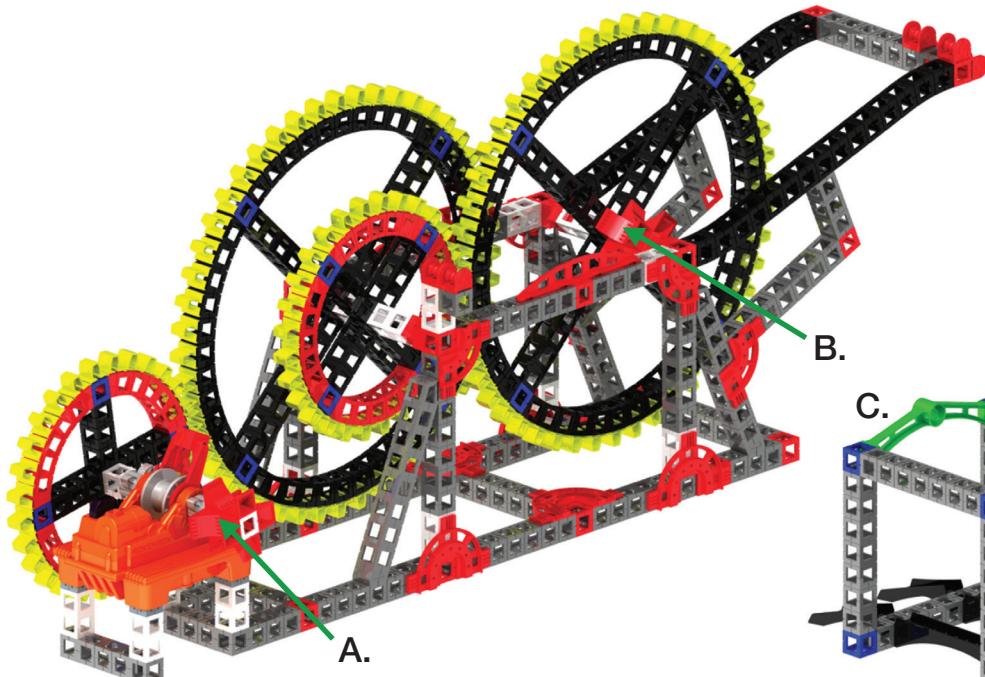


FINAL ELEVATOR ASSEMBLY

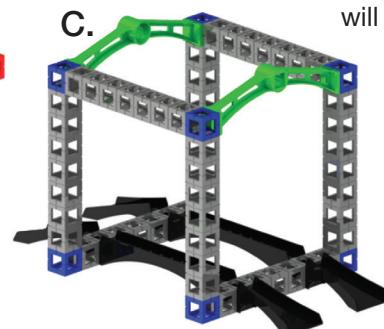


FINAL ASSEMBLY/STRINGING GEAR CRANE

1x 



Note: Cut the second string in half before you begin. You will need both halves.



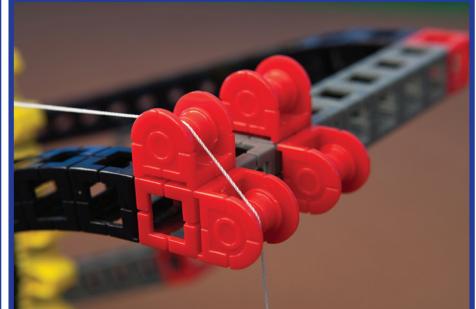
A. Axle Spool: Lifts lighter loads quickly.



Tie the string around the middle of the axle spool and activate the Axle Drive.



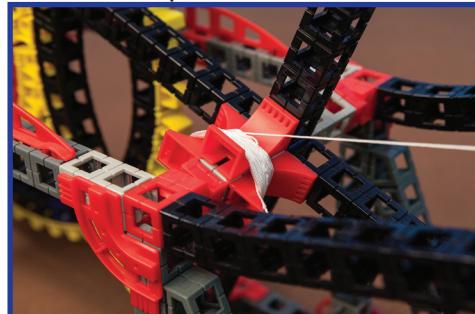
Route the string up and over the outer pulley.



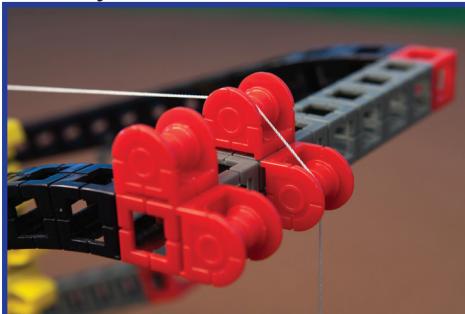
Bring the string down and attach it to the Elevator (Step C).

Note: Use the ROK Star Directional Wheel to operate the Axle Drive.

B. Wheel Spool: Lifts heavier loads slowly.

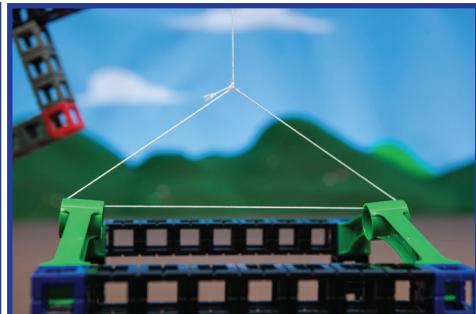


Tie the string around the middle of the large wheel spool.



Bring the string down and attach it to the Elevator (Step C).

C. Elevator



Feed the string through both green arches and tie it to itself.

CONSTRUCTION WORLD III



***Don't Forget to Check
Out This New Build!***

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