

04129

9+

ROKENBOK®

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

**905+
Pieces!**

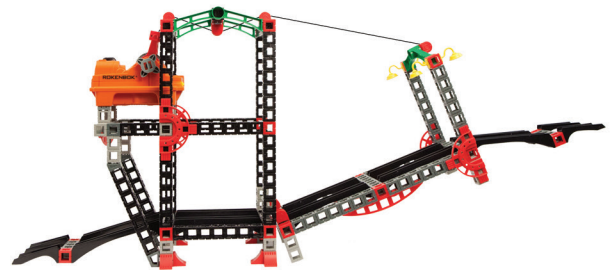


 **WARNING:**
CHOKING HAZARD.
Toy contains small parts and small
balls. Not for children under 3 years.

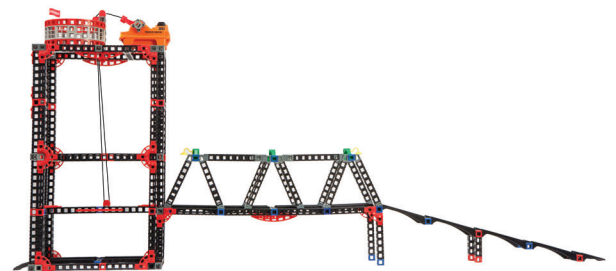
BILL OF MATERIALS

77x		52x		38x		32x	
19x		6x		8x		17x	
34x		3x		37x		11x	
34x		114x		7x		12x	
13x		12x		16x		8x	
2x		1x		19x			
4x		4x		28x		6x	
2x		38x		4x		1x	
4x		160x		20x		20x	
12x		6x		2x		2x	
1x		2x		8x		4x	
1x		1x		1x		1x	
1x		1x		1x			

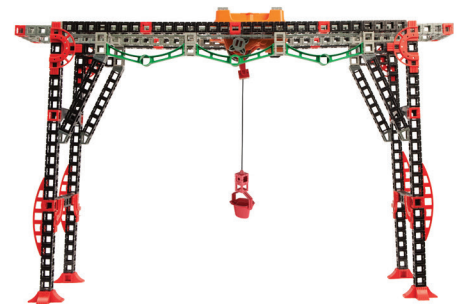
Color of building pieces may differ from those shown.



DRAWBRIDGE PG. 1



ELEVATOR PG. 8



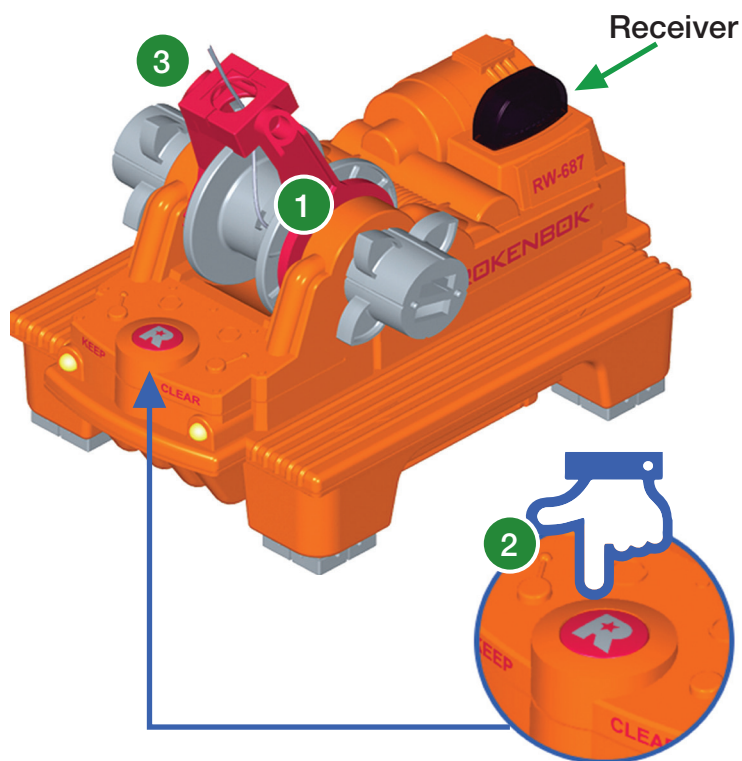
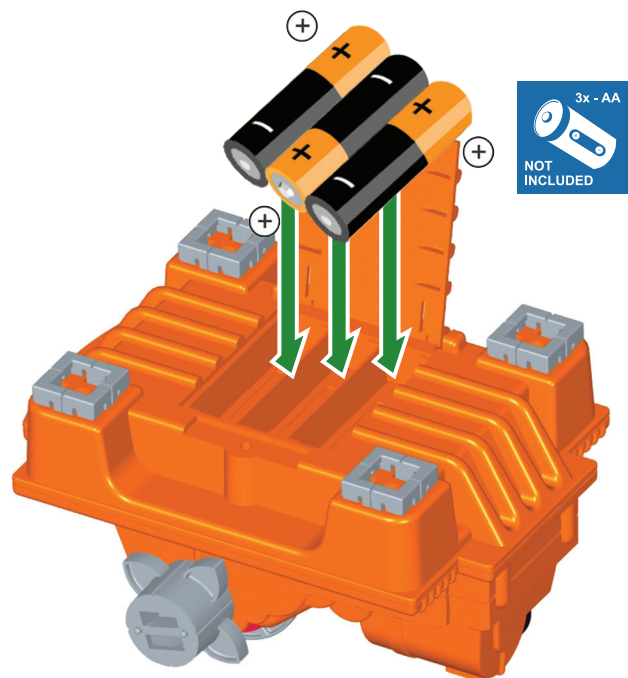
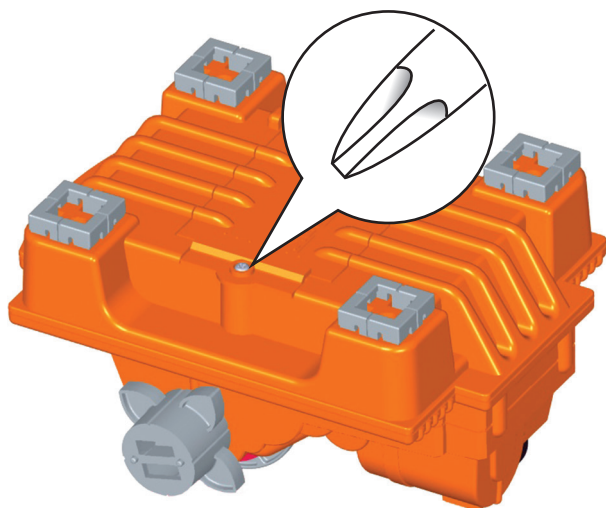
GANTRY CRANE PG. 21



GEAR CRANE PG. 32

BATTERY INSTALLATION AND OPERATION

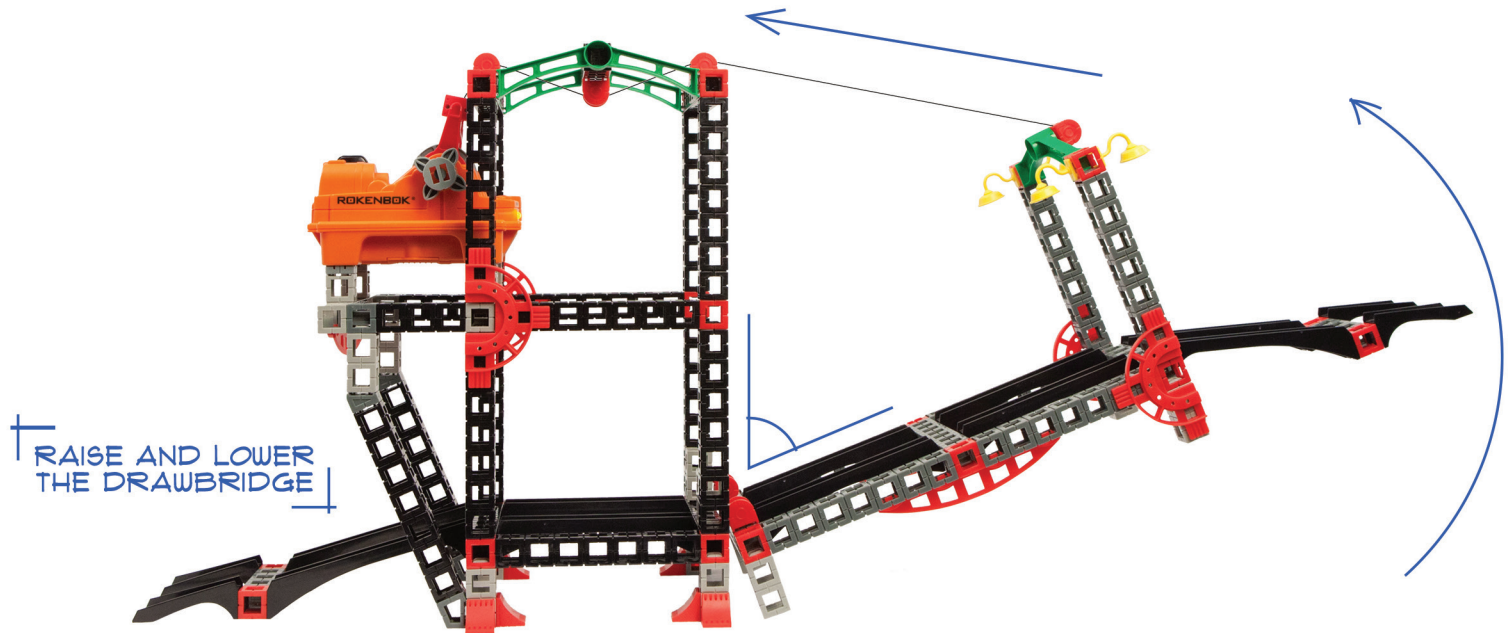
- Rokenbok recommends premium alkaline batteries for use in your Rokenbok machines.
- Batteries are to be inserted with correct polarity as shown.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc), or nickel-cadmium batteries.



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







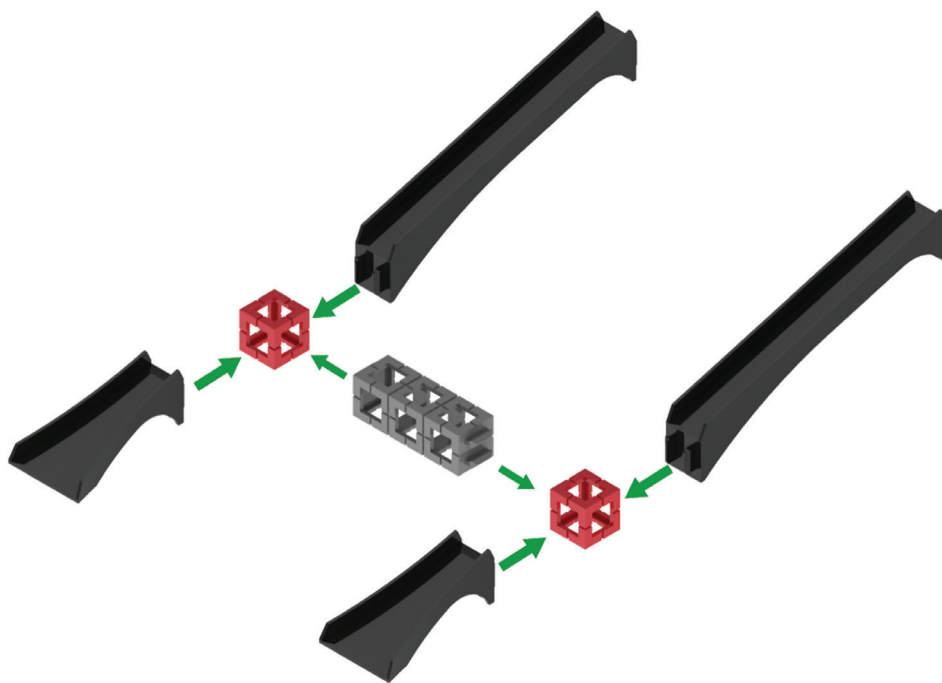
BILL OF MATERIALS

2x		22x		20x		2x		4x	
9x		19x		4x		6x		4x	
4x		8x		3x		2x		2x	
1x		1x		2x		4x		4x	





Color of building pieces may differ from those shown.

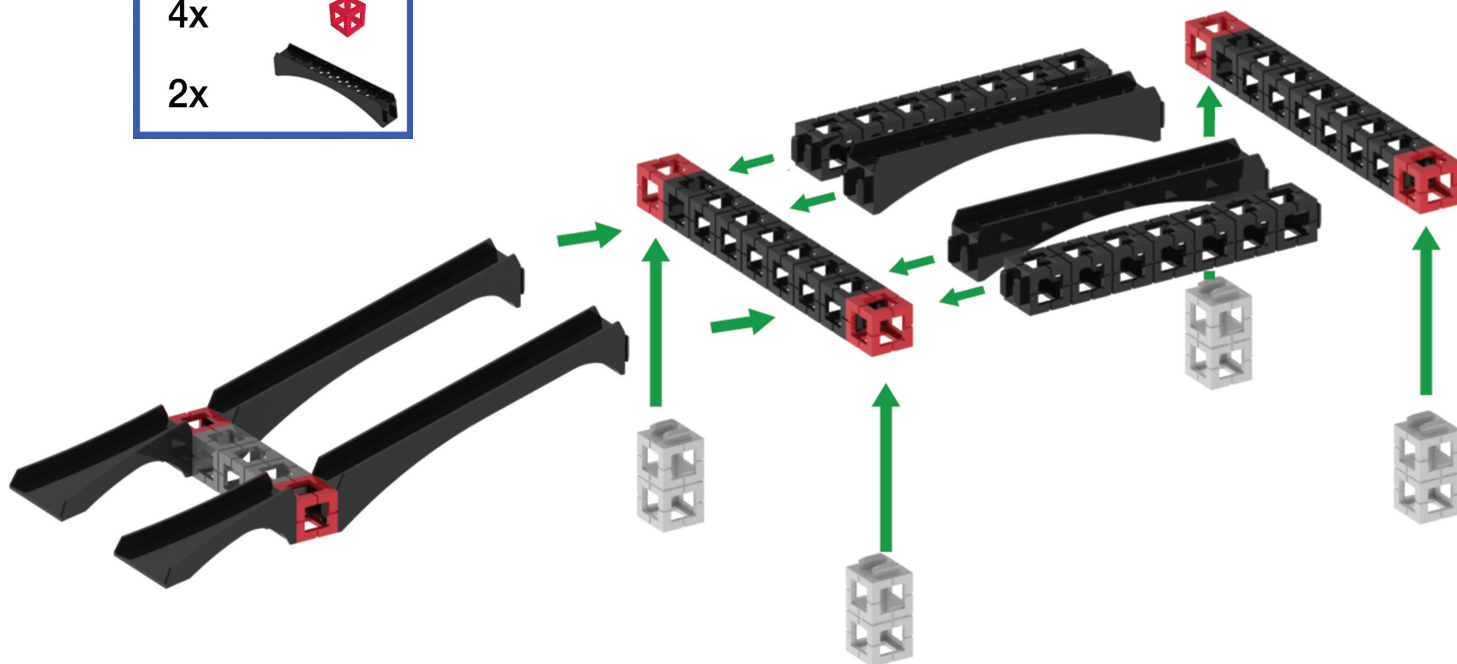
1

2x	
2x	
2x	
1x	








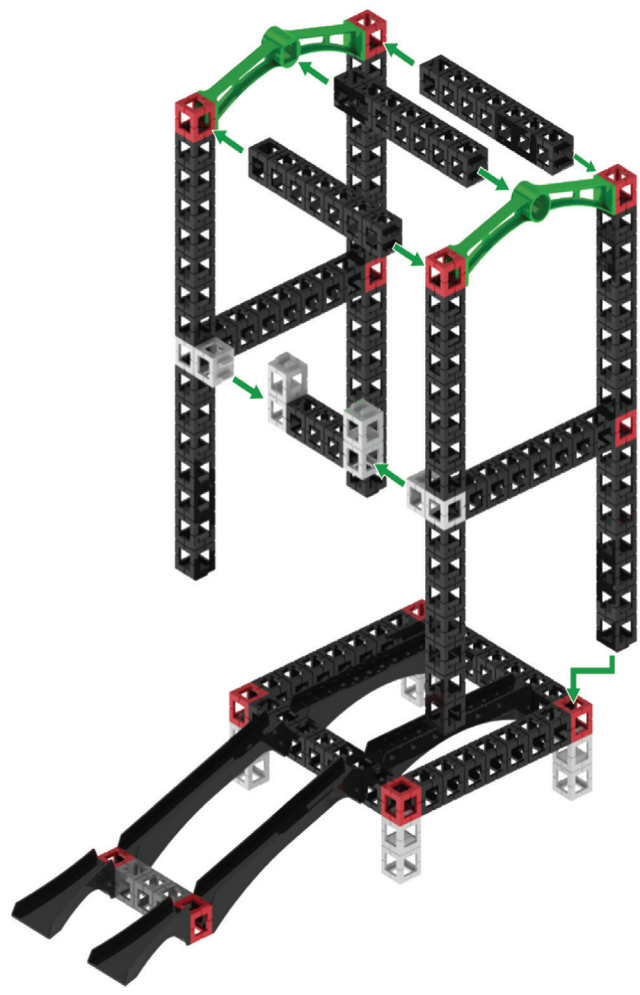
2

4x	
4x	
4x	
2x	









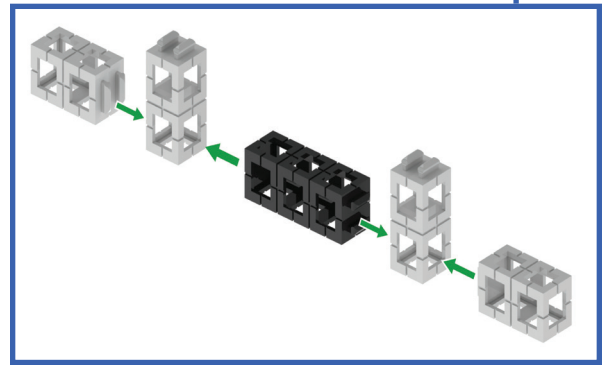
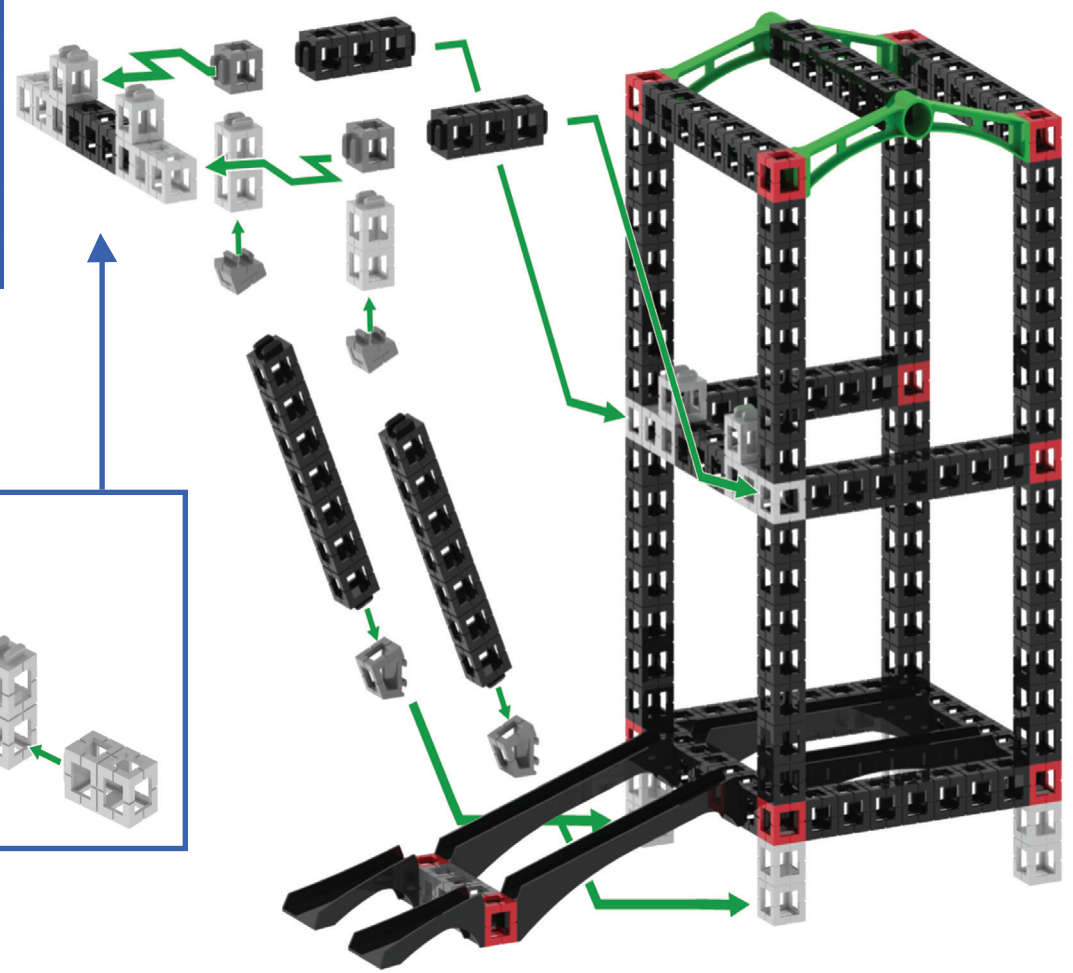
3

- 13x 
- 6x 
- 4x 
- 2x 
- 1x 



4

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



5

8x



3x



2x



2x



8x

6

9x



8x



4x



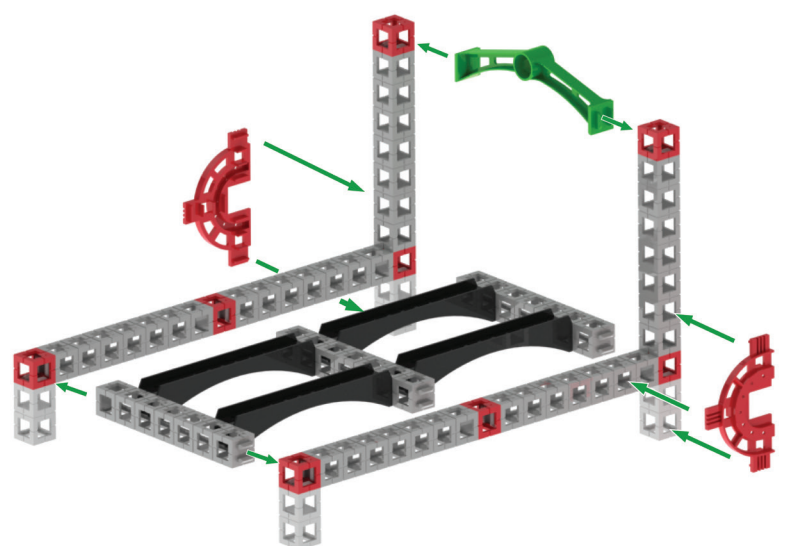
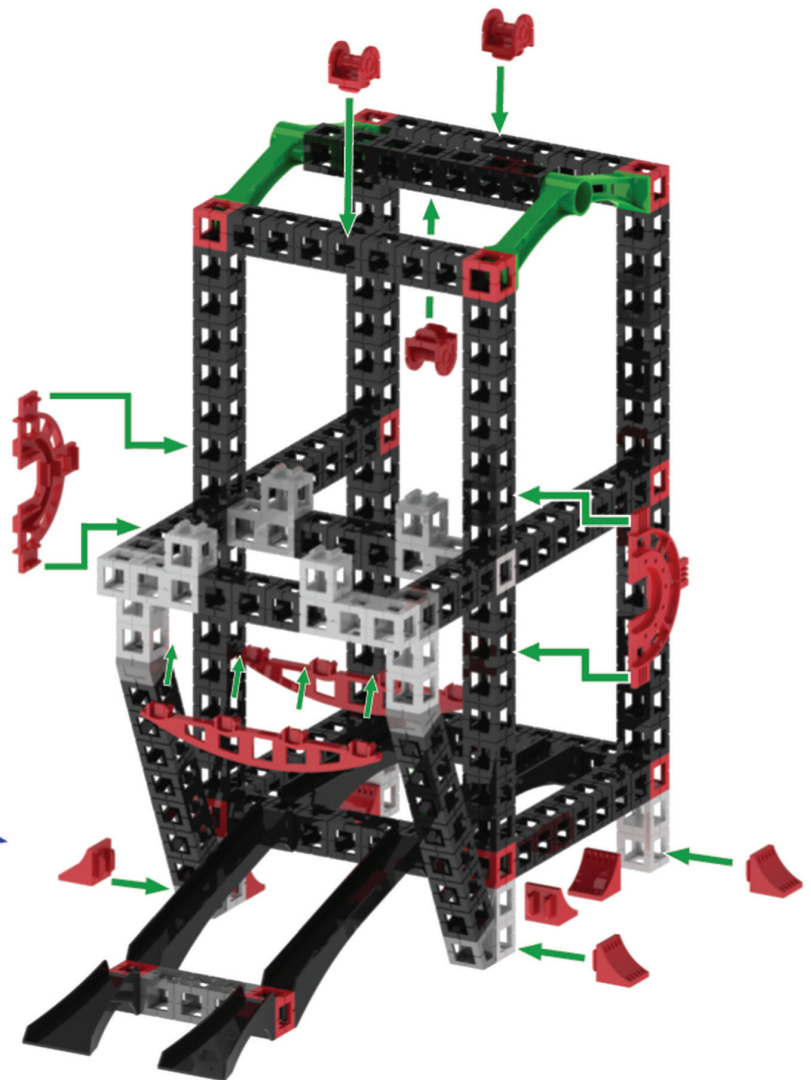
4x






2x

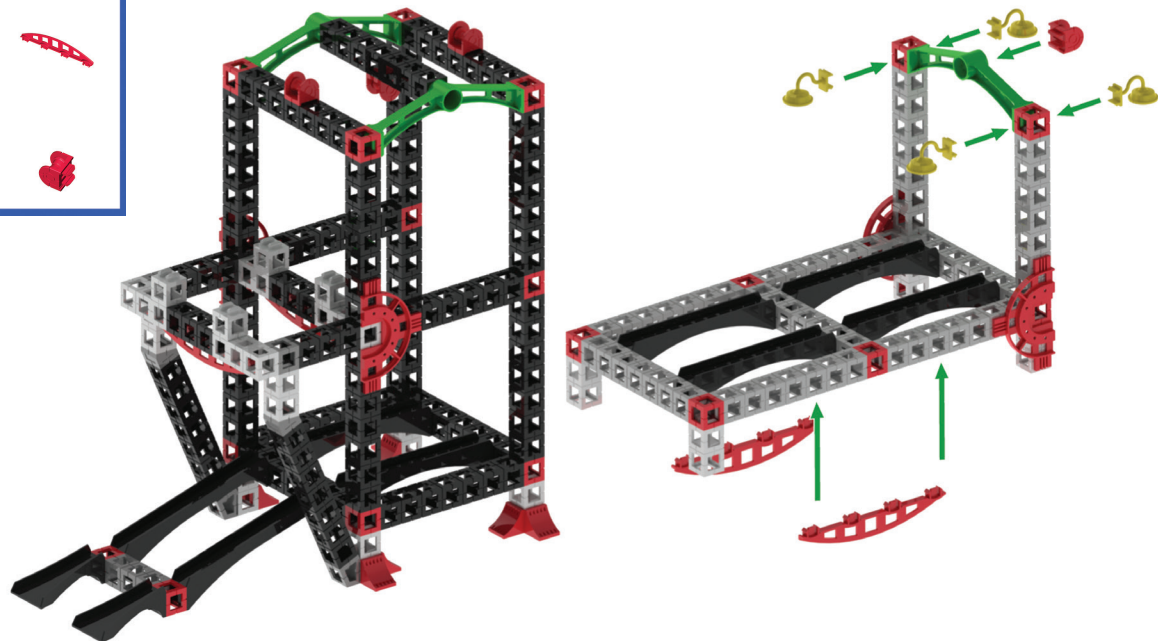


1x





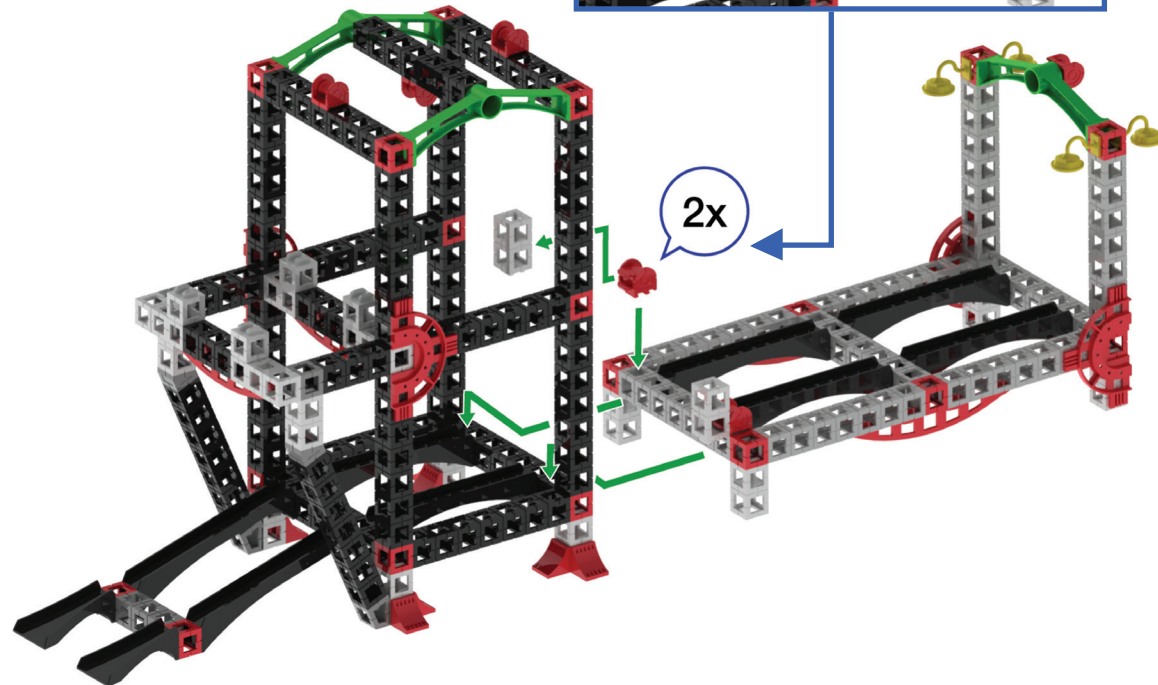
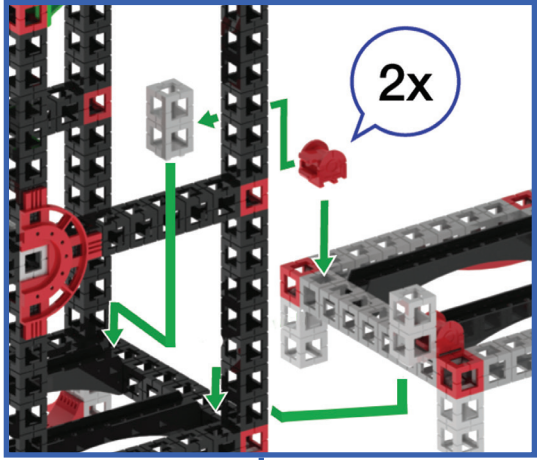
7

- 4x 
- 2x 
- 1x 







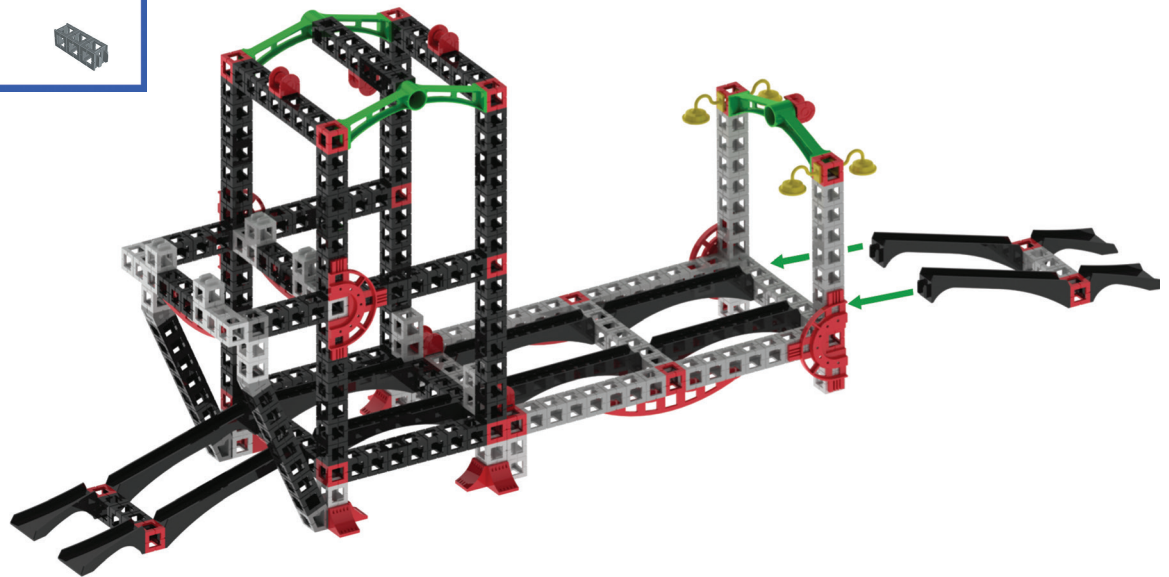
8

- 2x 
- 2x 




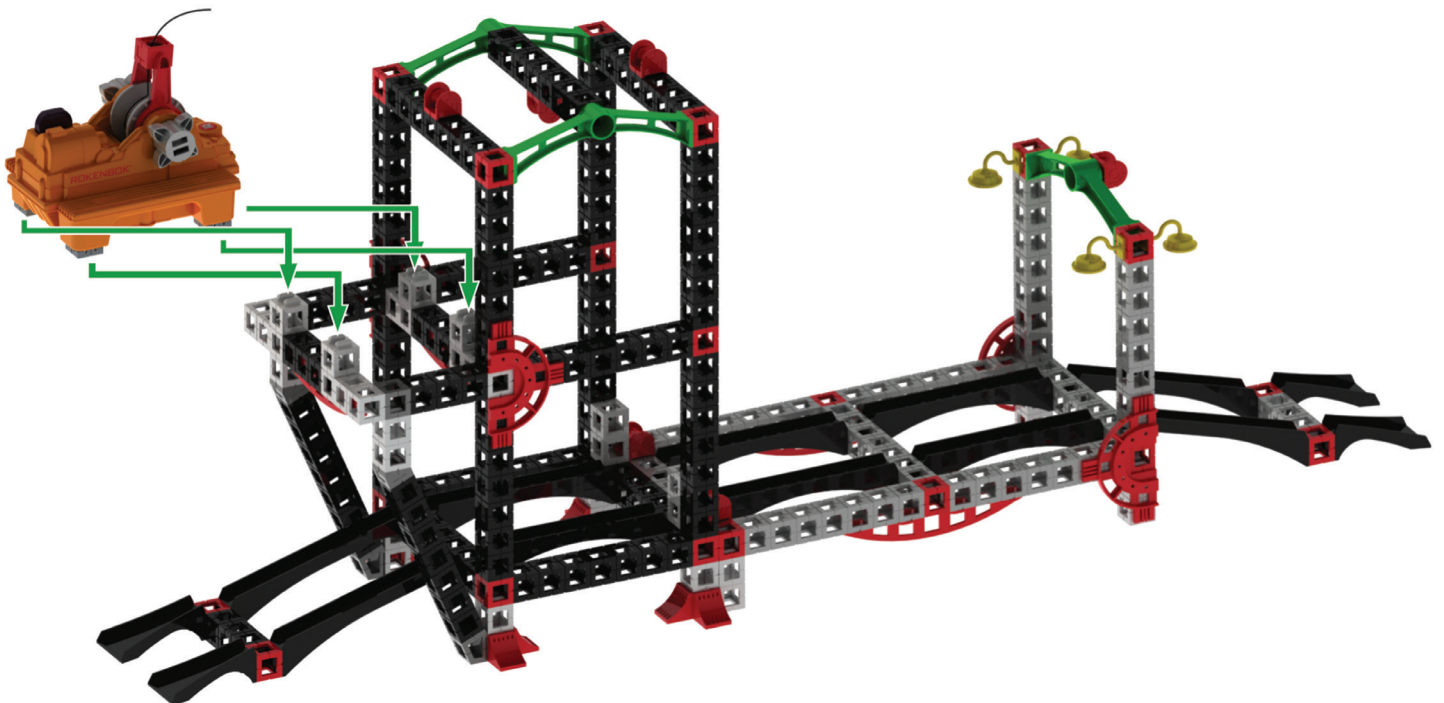
9

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

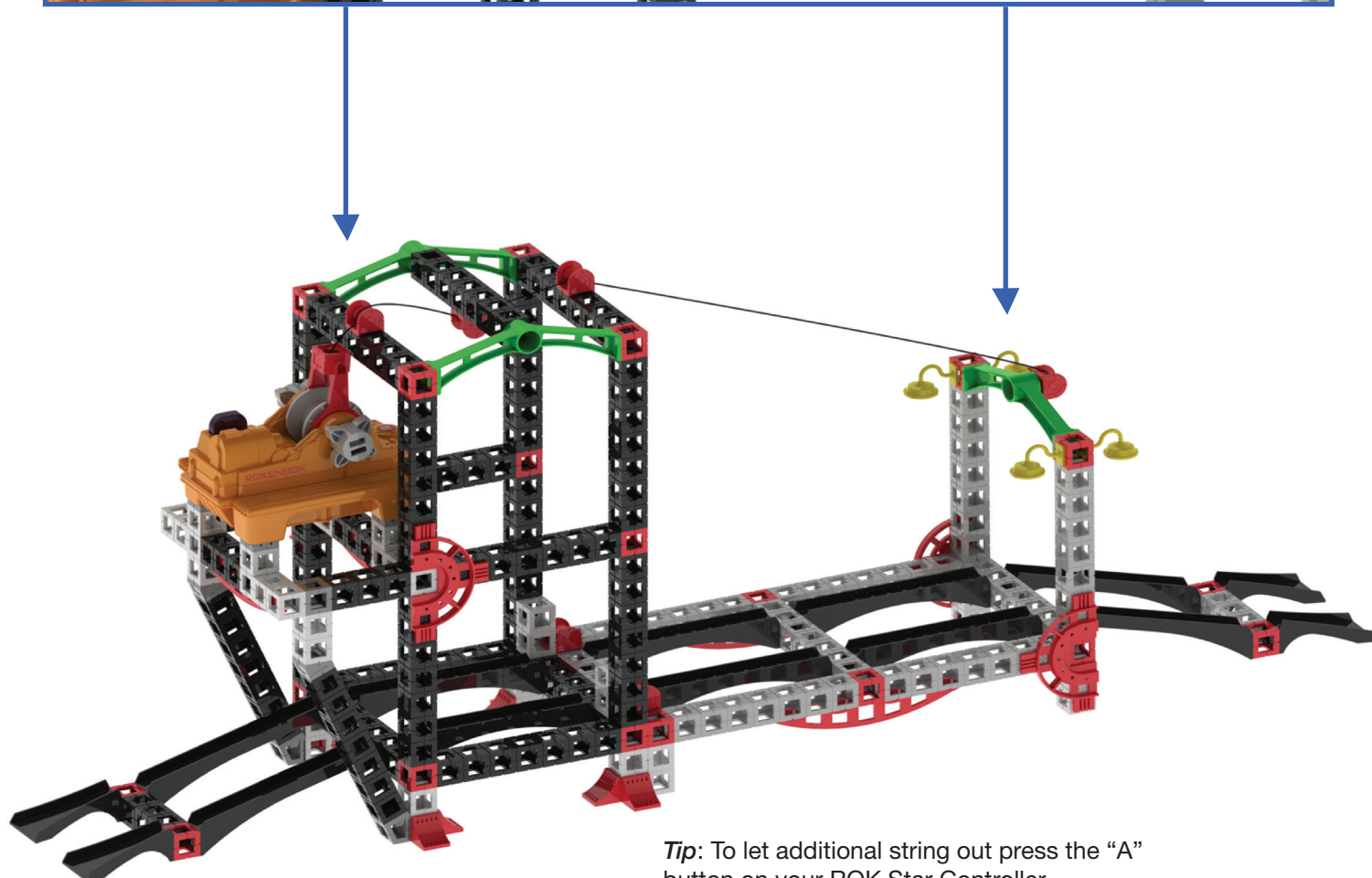
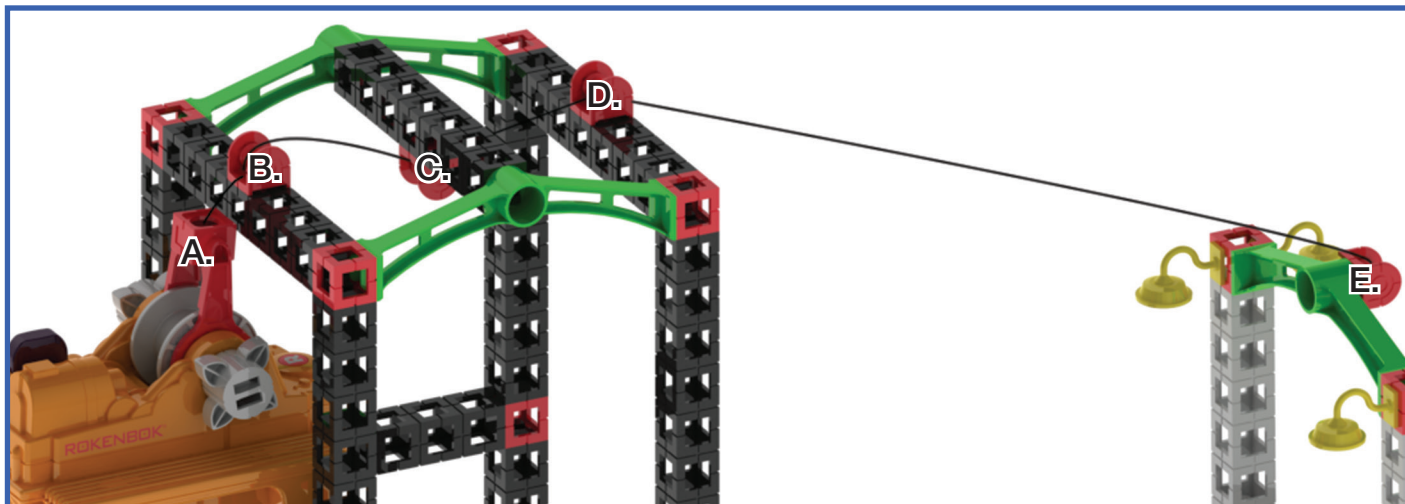


10

- 1x 



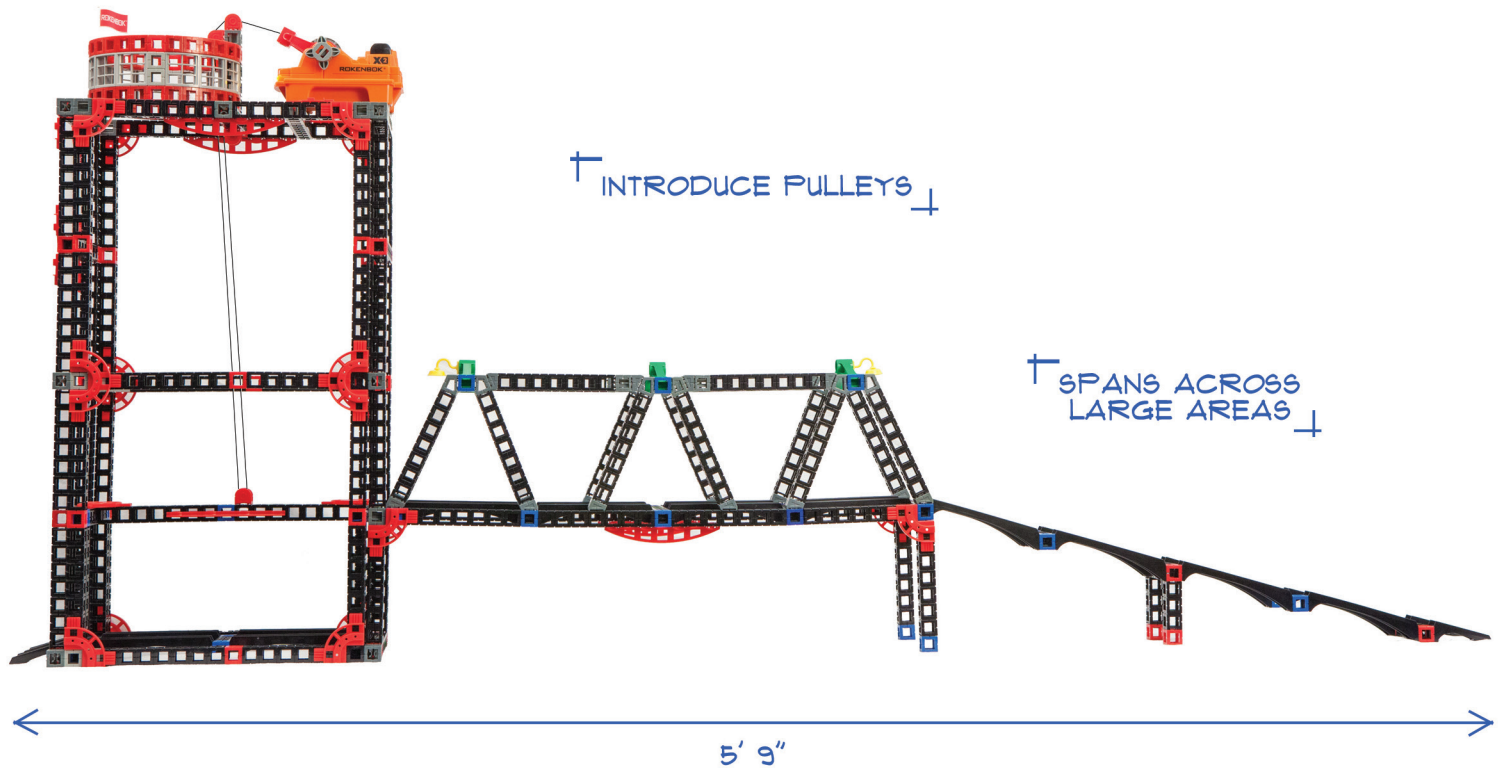
FINAL ASSEMBLY: ASSEMBLING THE WINCH STRING TO THE DRAWBDIGE.



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

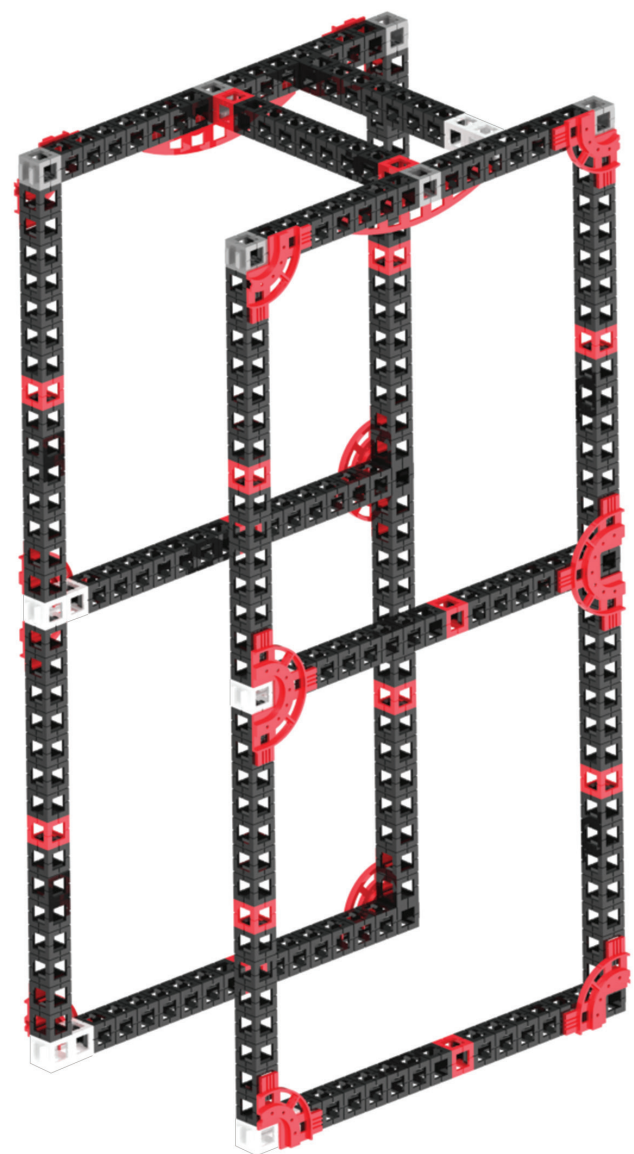
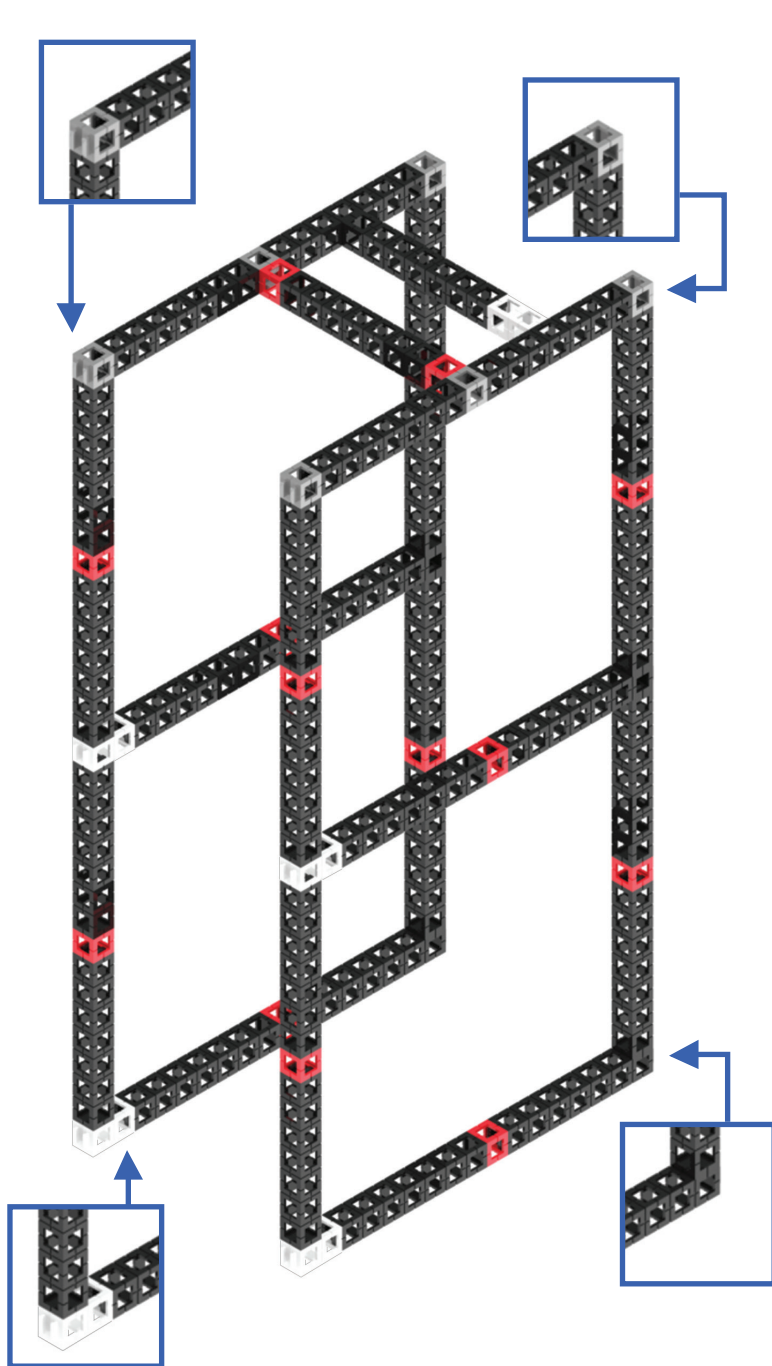
1x		12x		20x		10x		3x	
8x		4x		12x		28x		16x	
2x		8x		42x		33x		9x	
8x		8x		91x		12x		1x	
		4x		1x		1x			

1

30x	
14x	
5x	
6x	


2

8x	
4x	
2x	




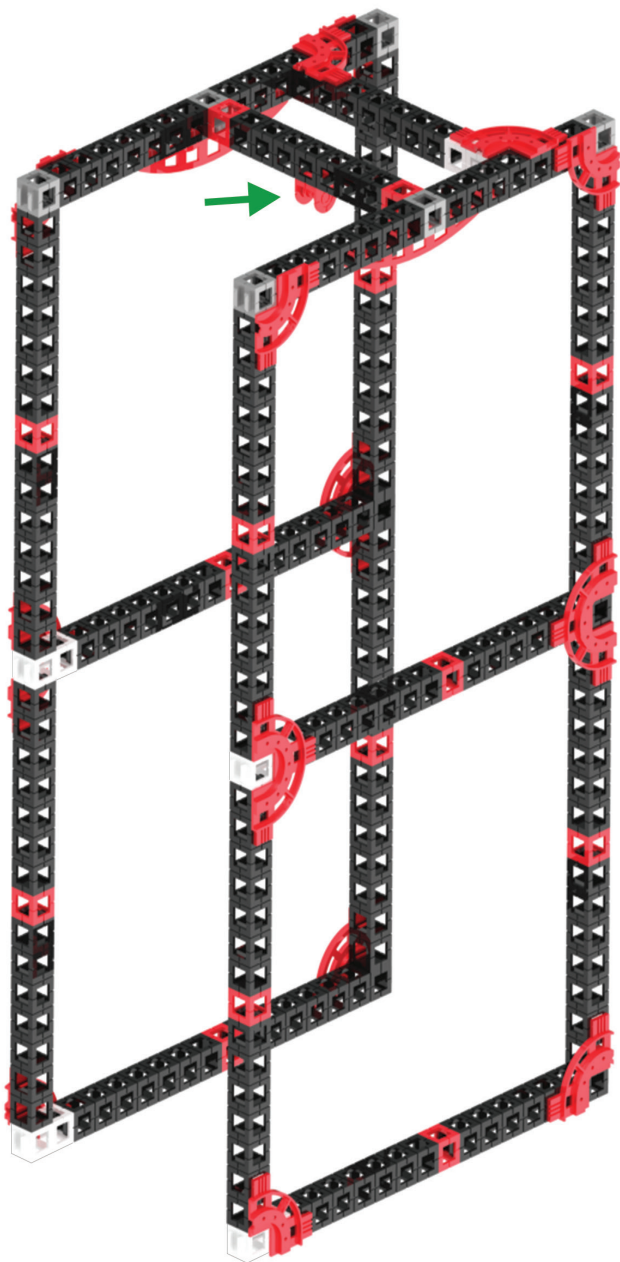
3

1x




2x






4


10x

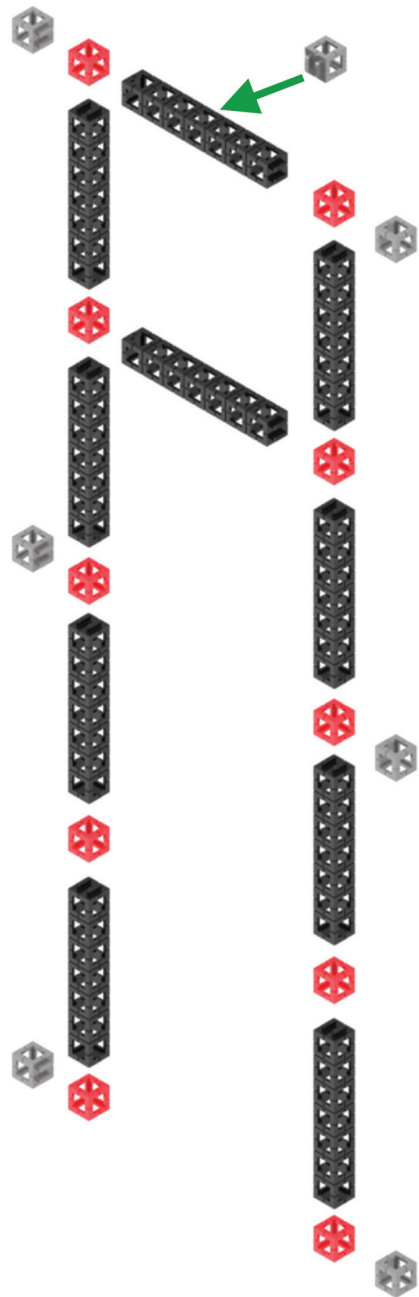


10x

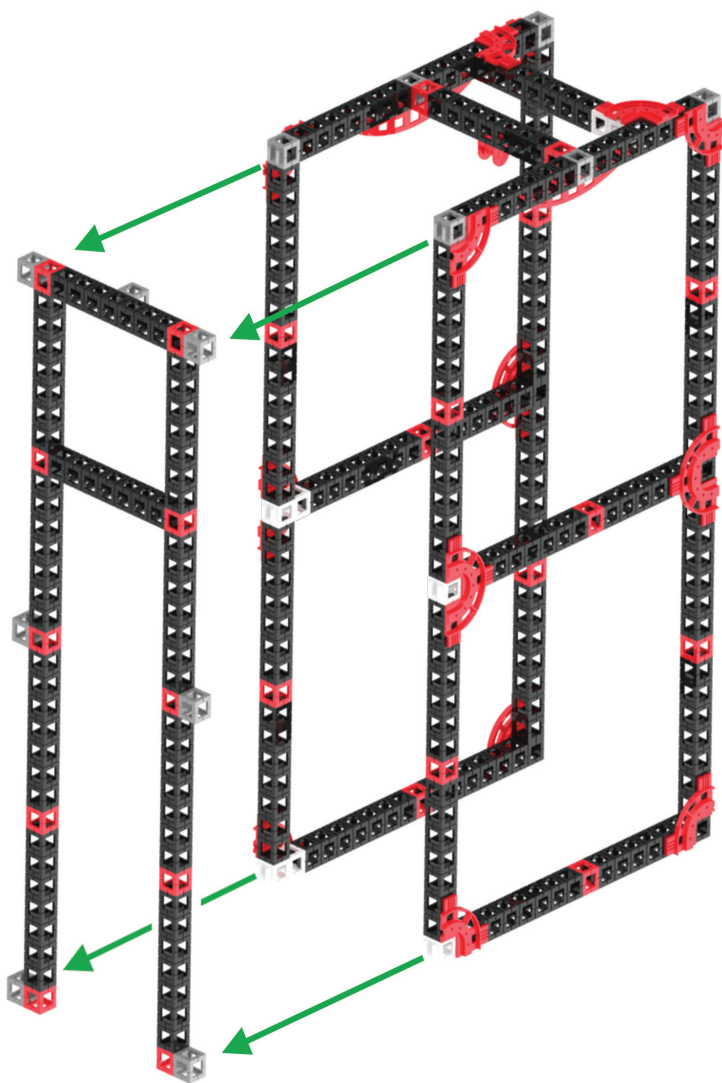


7x

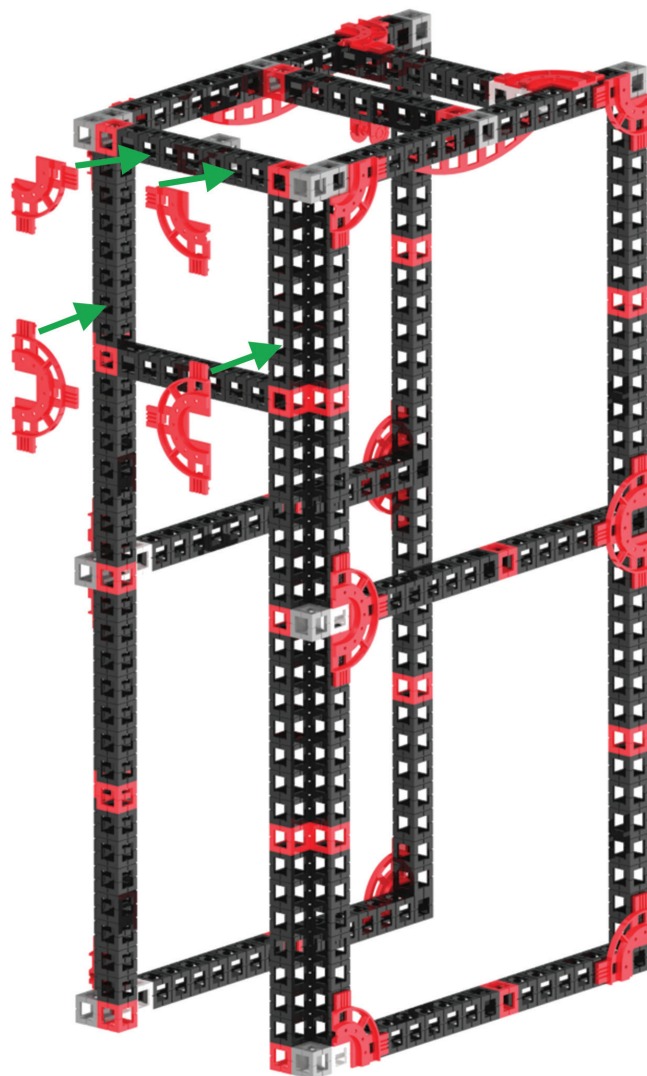
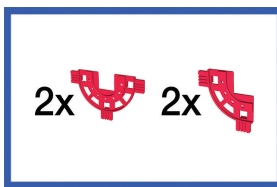









5

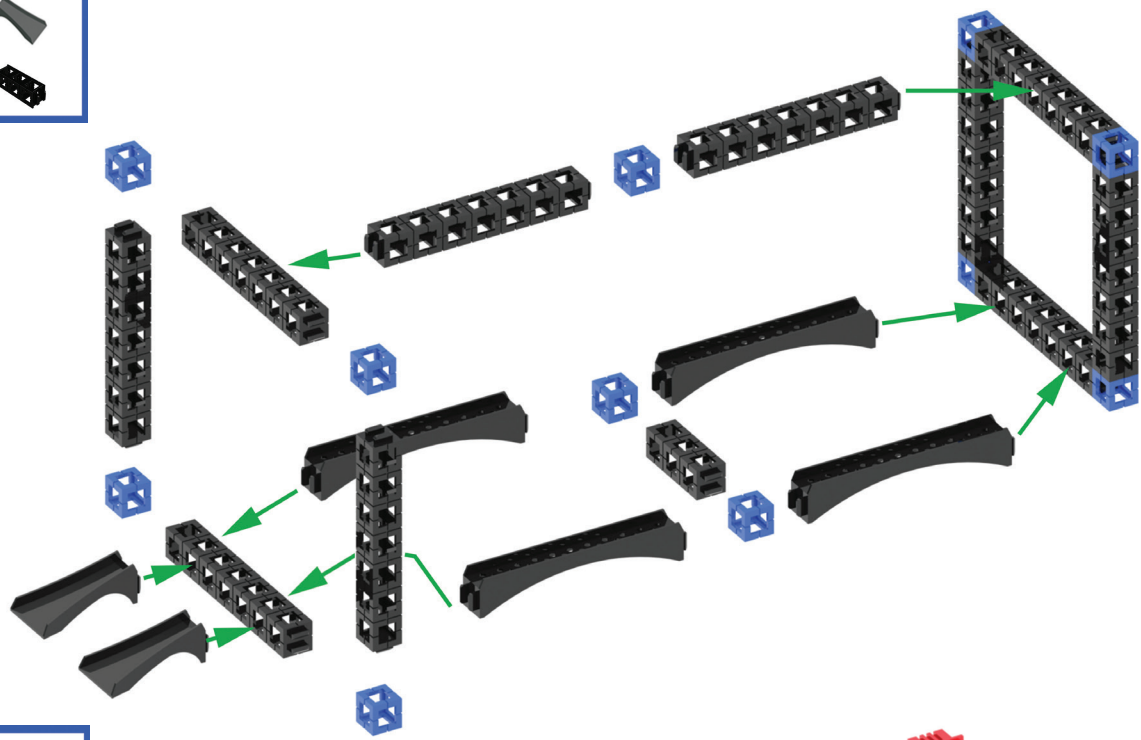


6







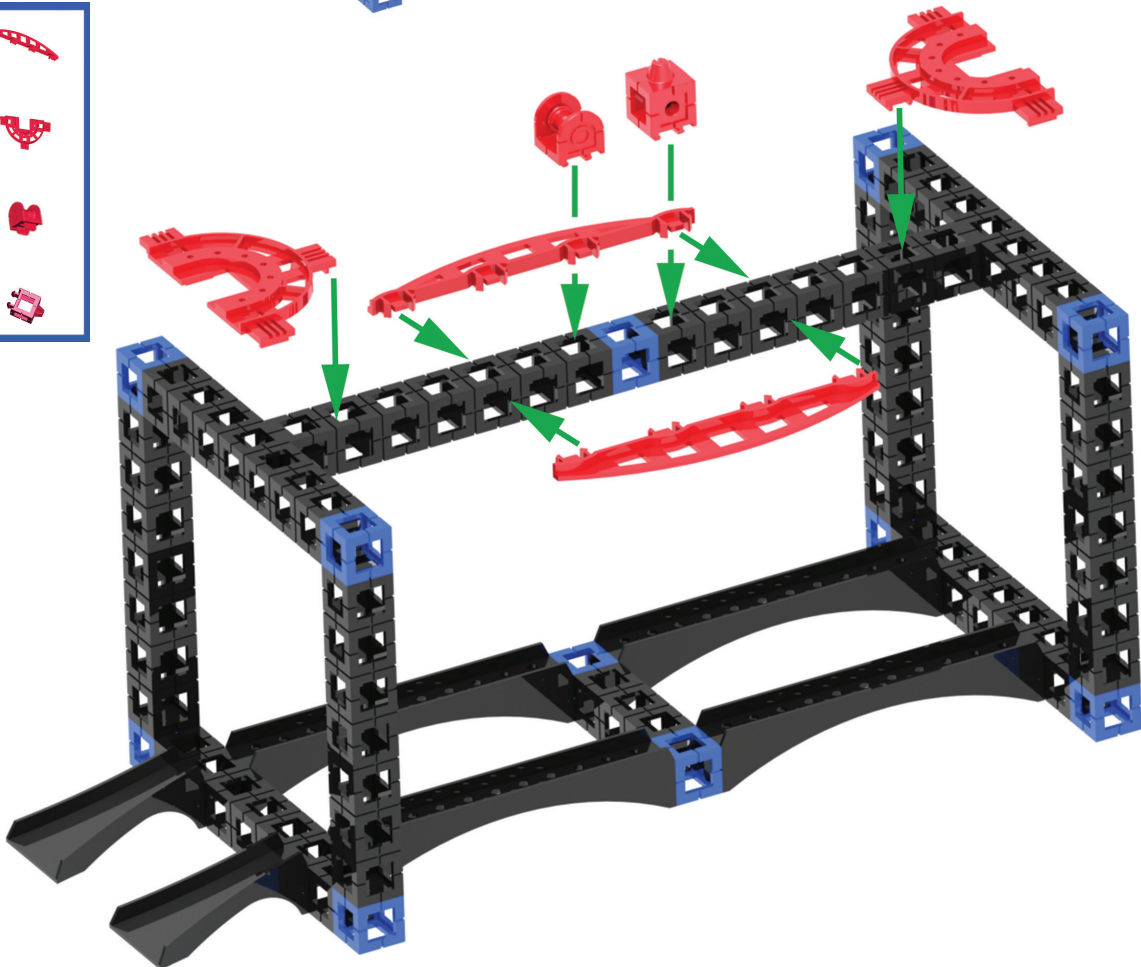
7

- 11x 
- 10x 
- 4x 
- 2x 
- 1x 

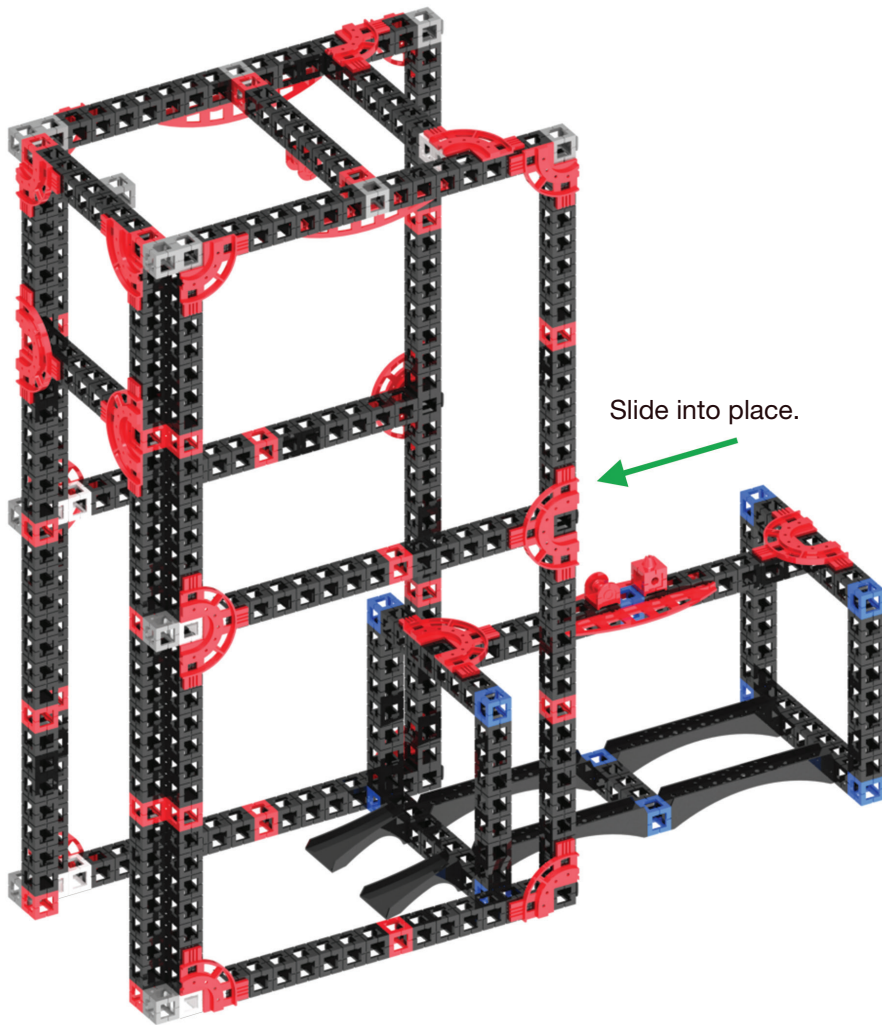


8

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

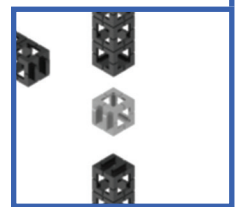
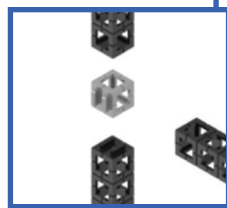
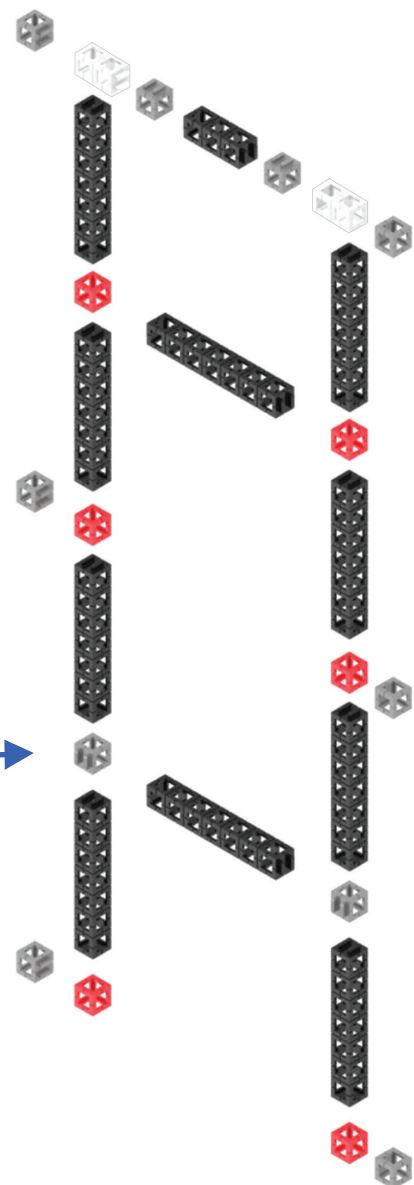


9

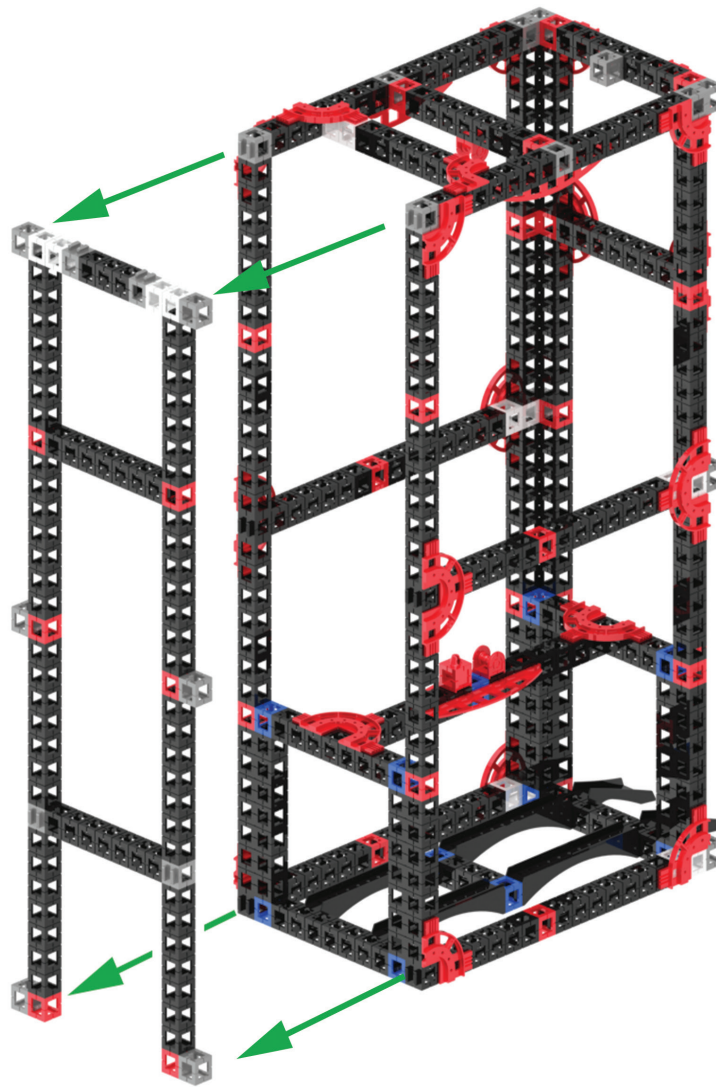


10

10x	
10x	
6x	
2x	
1x	

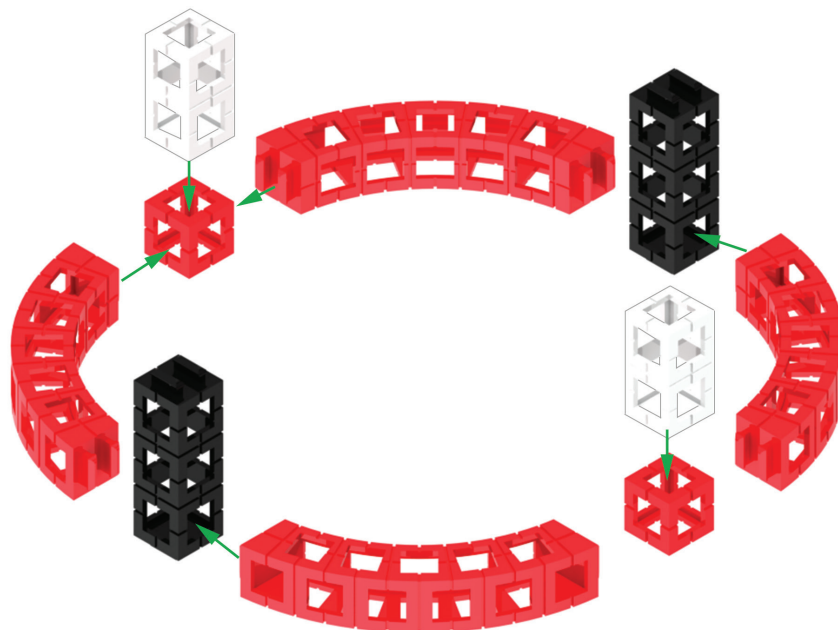


11

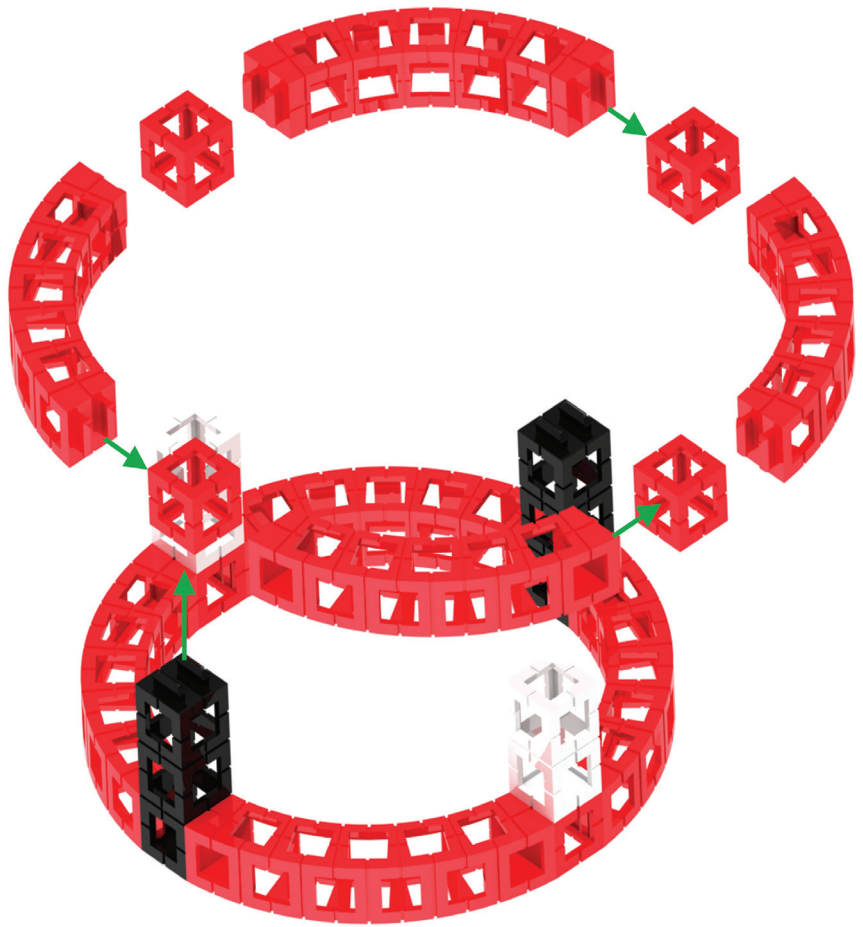
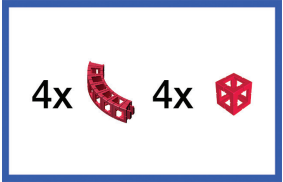


12

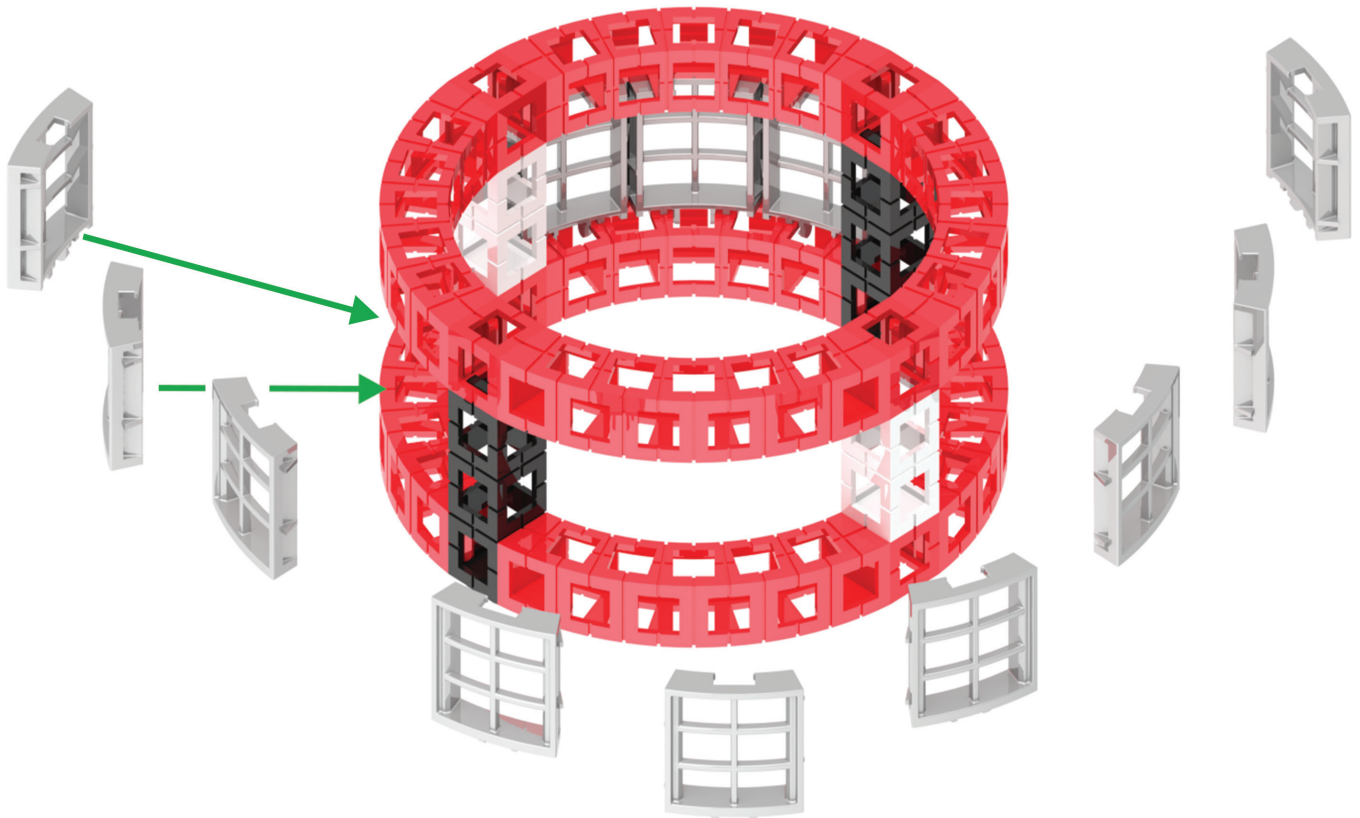
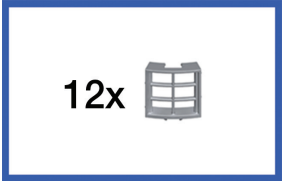
4x	
2x	
2x	
2x	






13

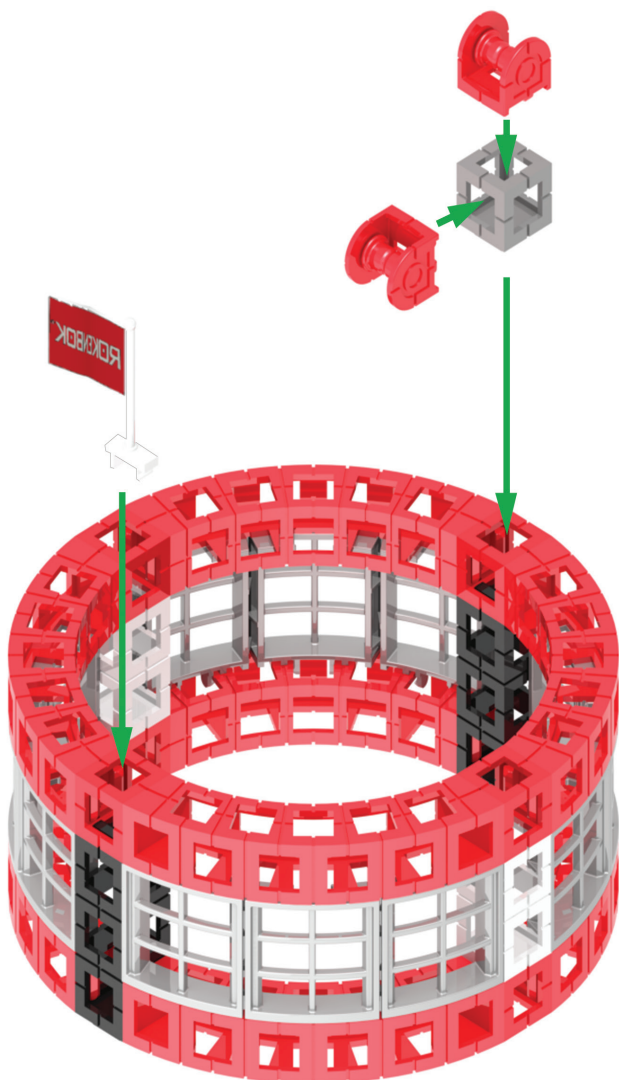


14

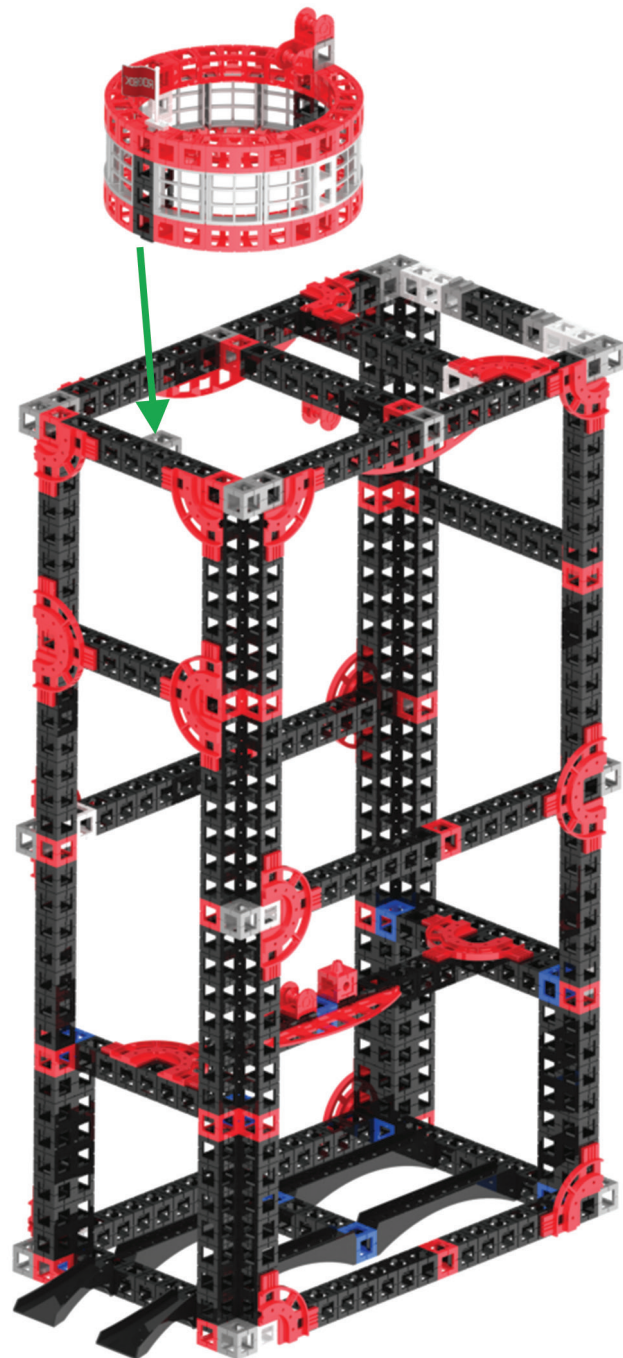


15




2x	
1x	
1x	

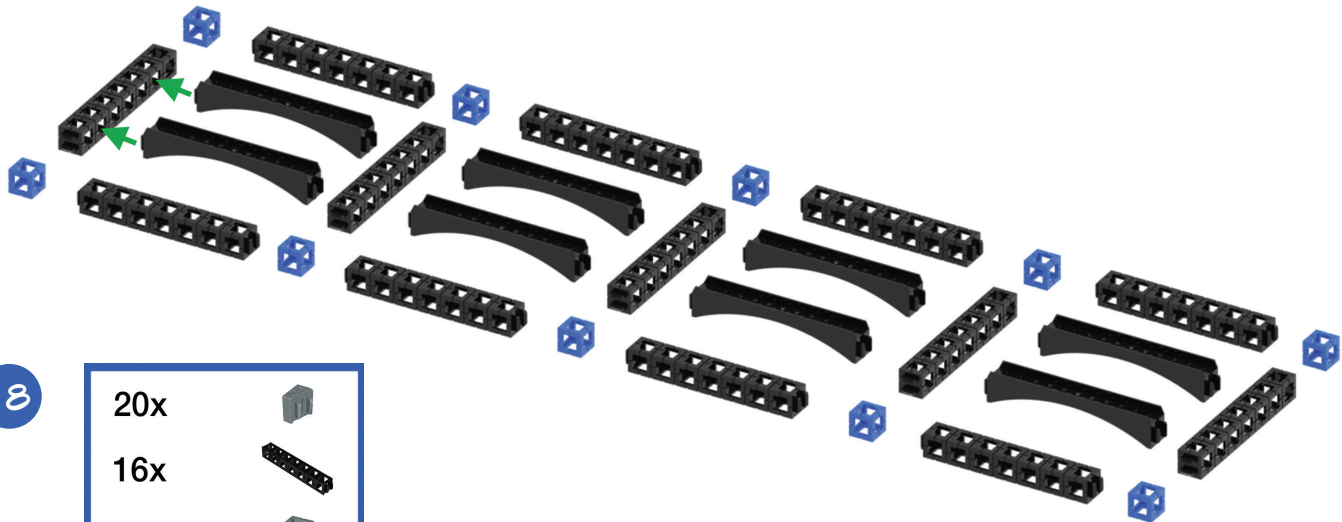


16








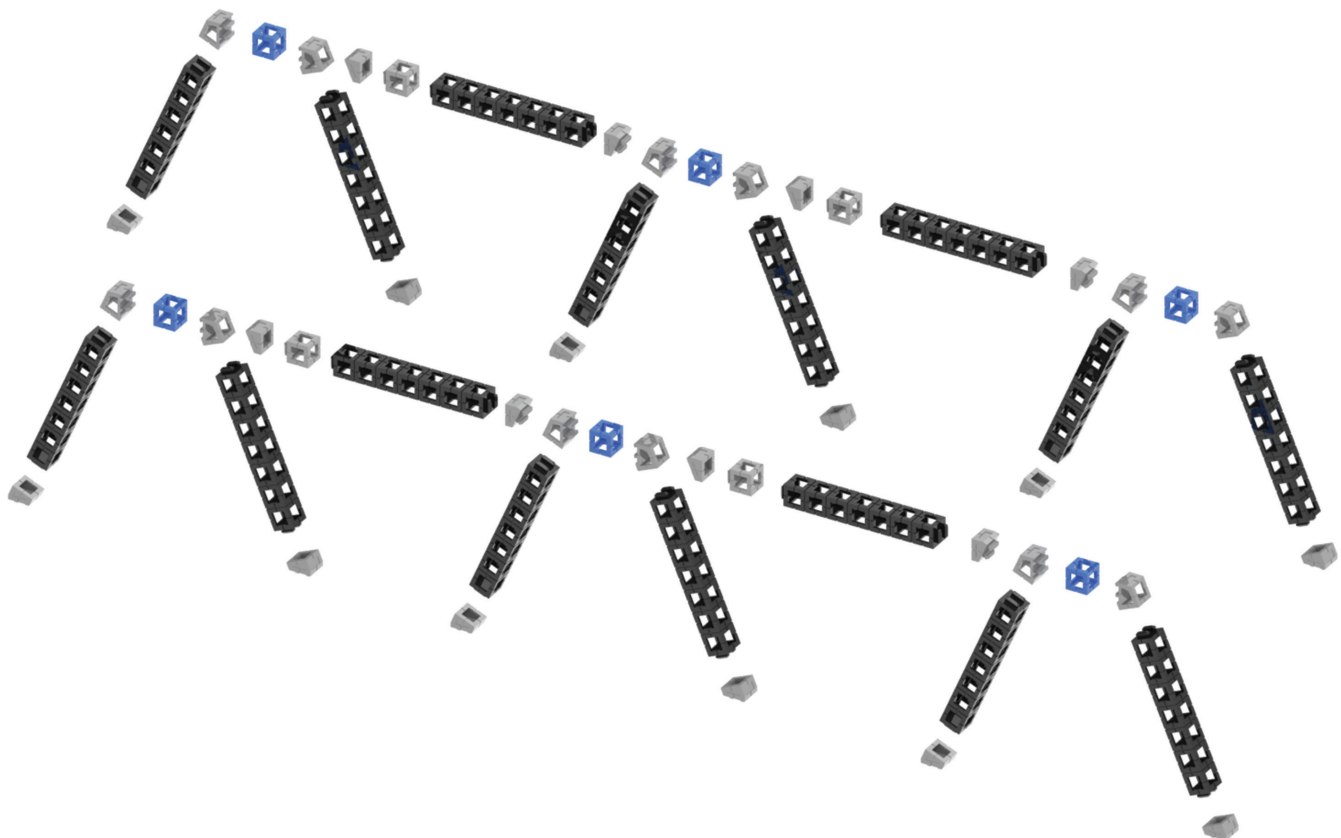
17

13x	
10x	
8x	







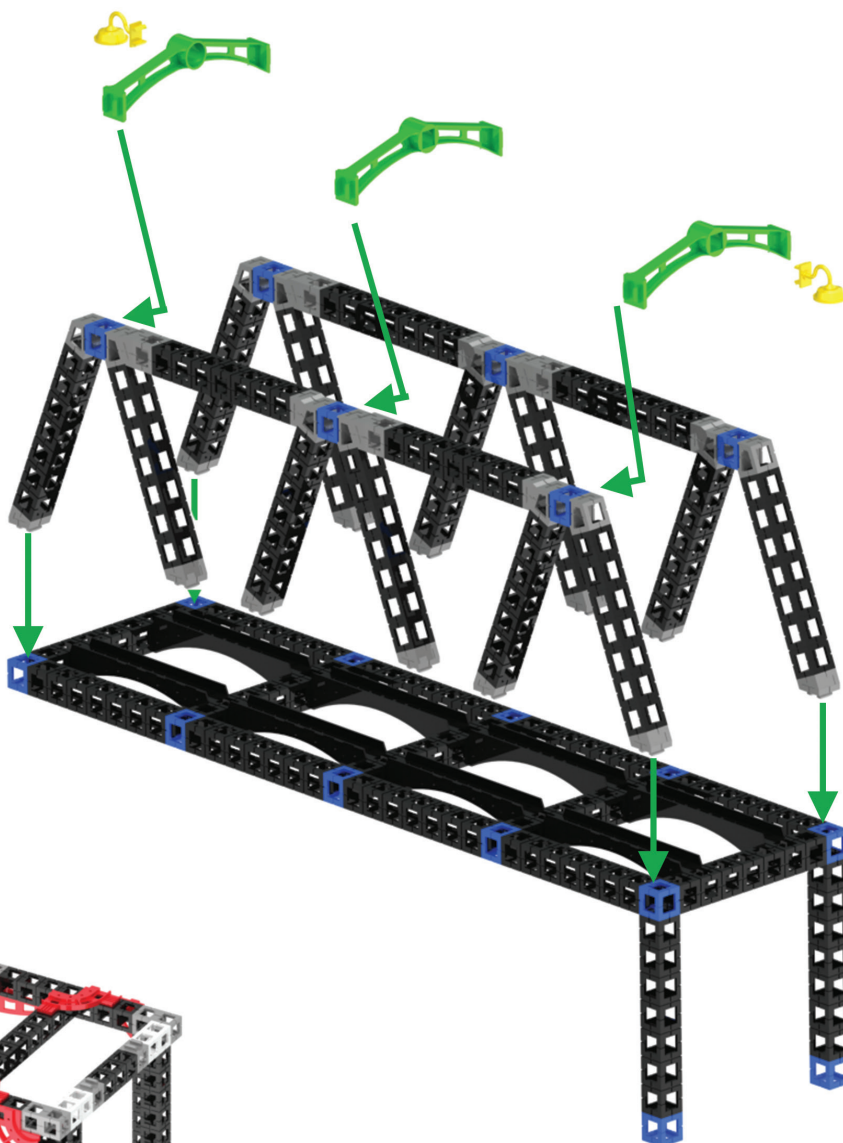
18

20x	
16x	
12x	
6x	
4x	

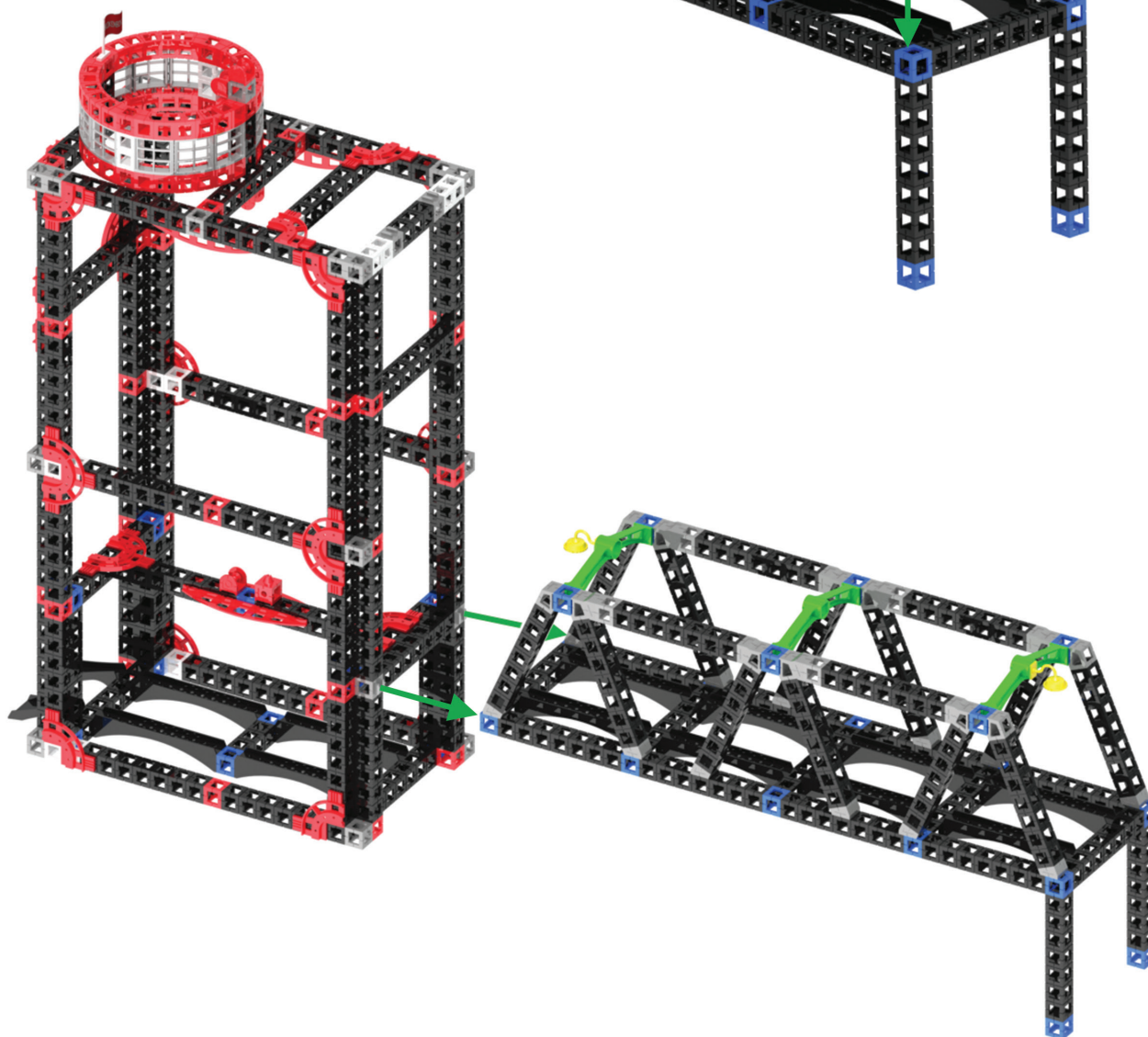


19

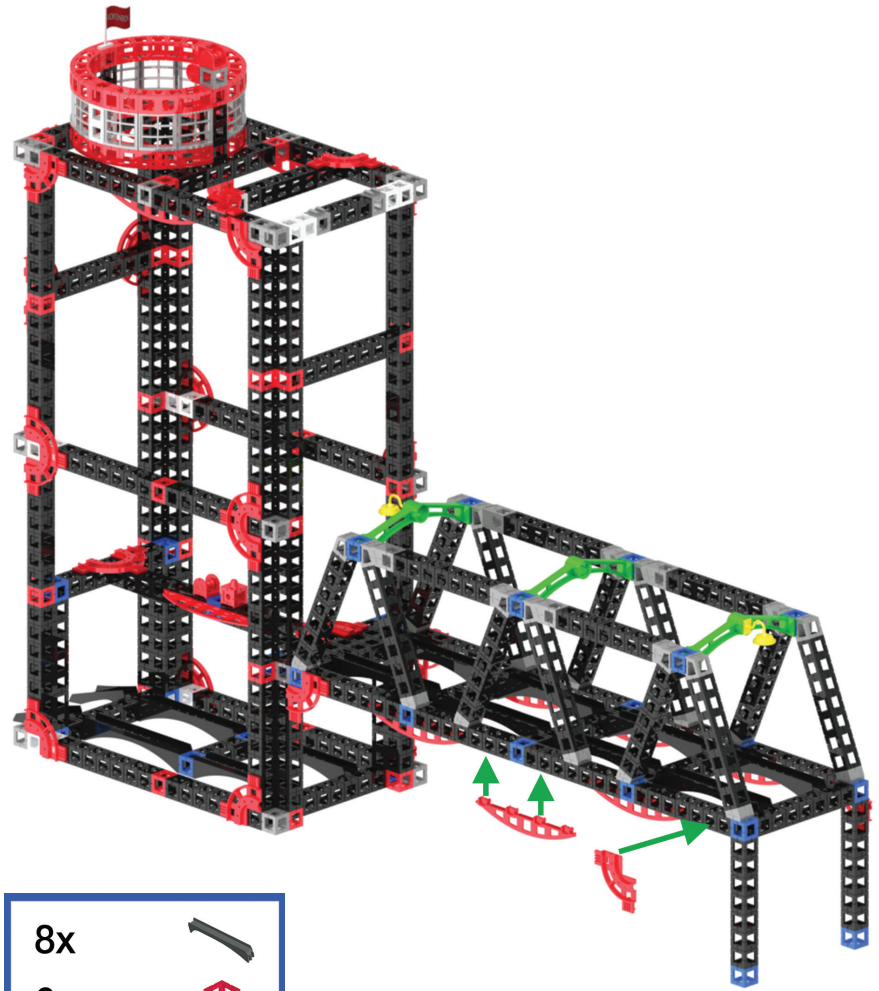
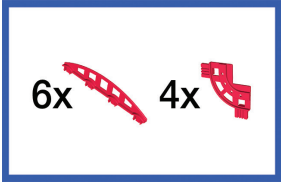
3x	
2x	
2x	
2x	



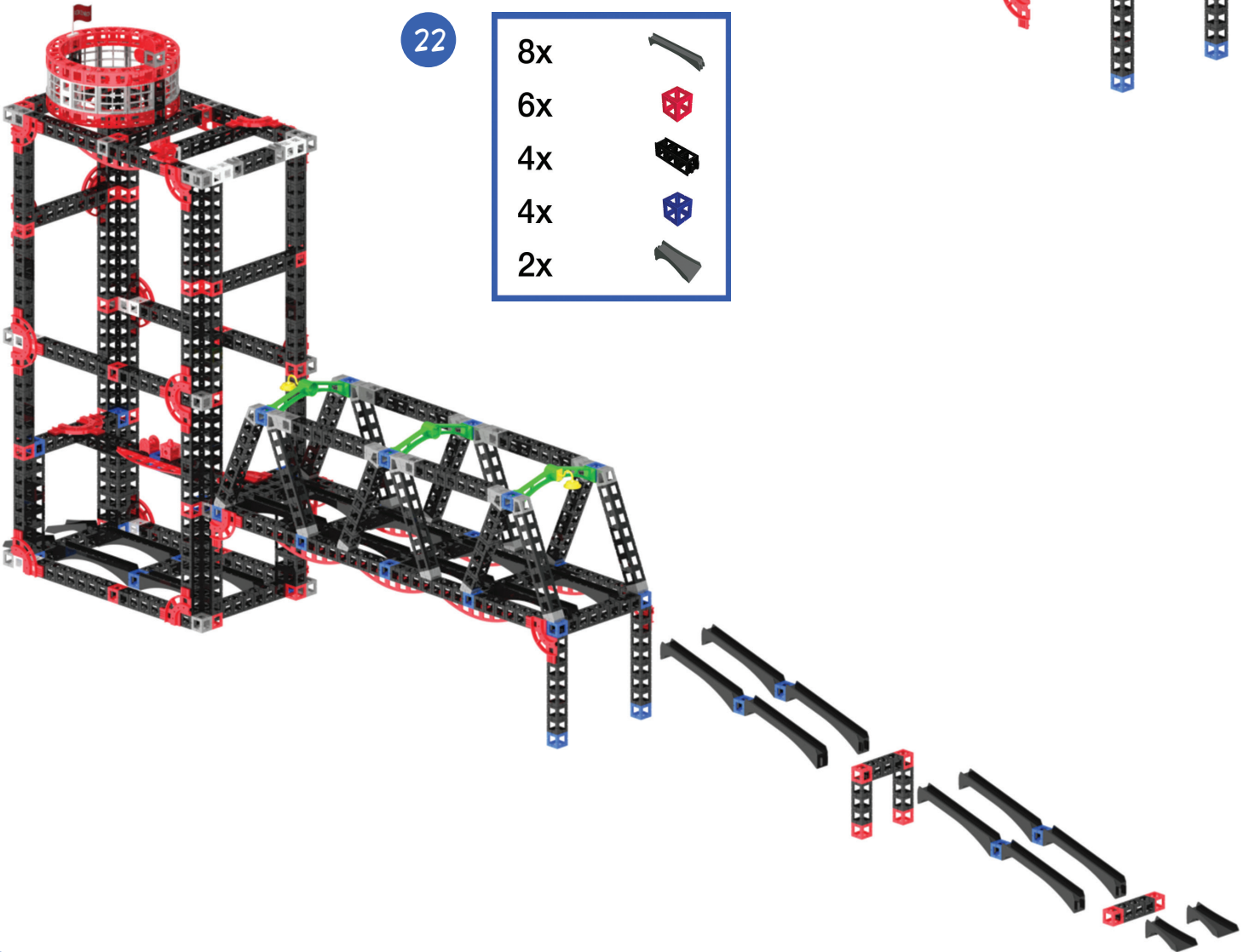
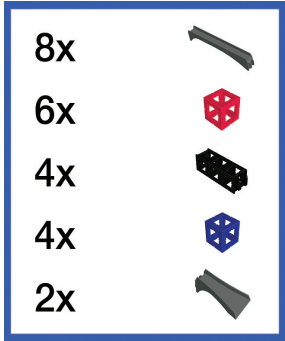
20



21



22

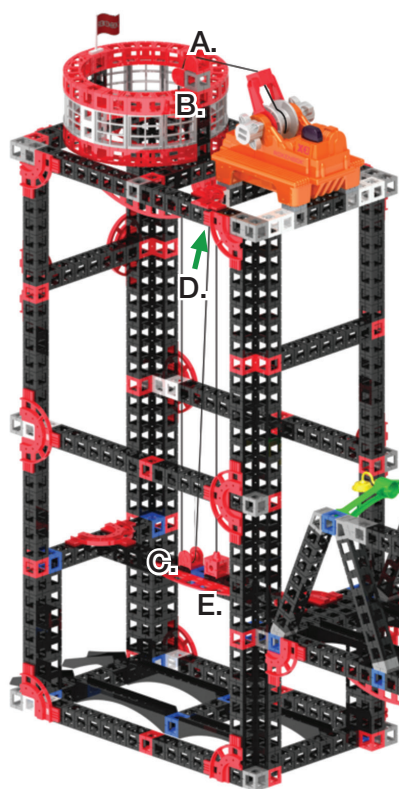


23

1x



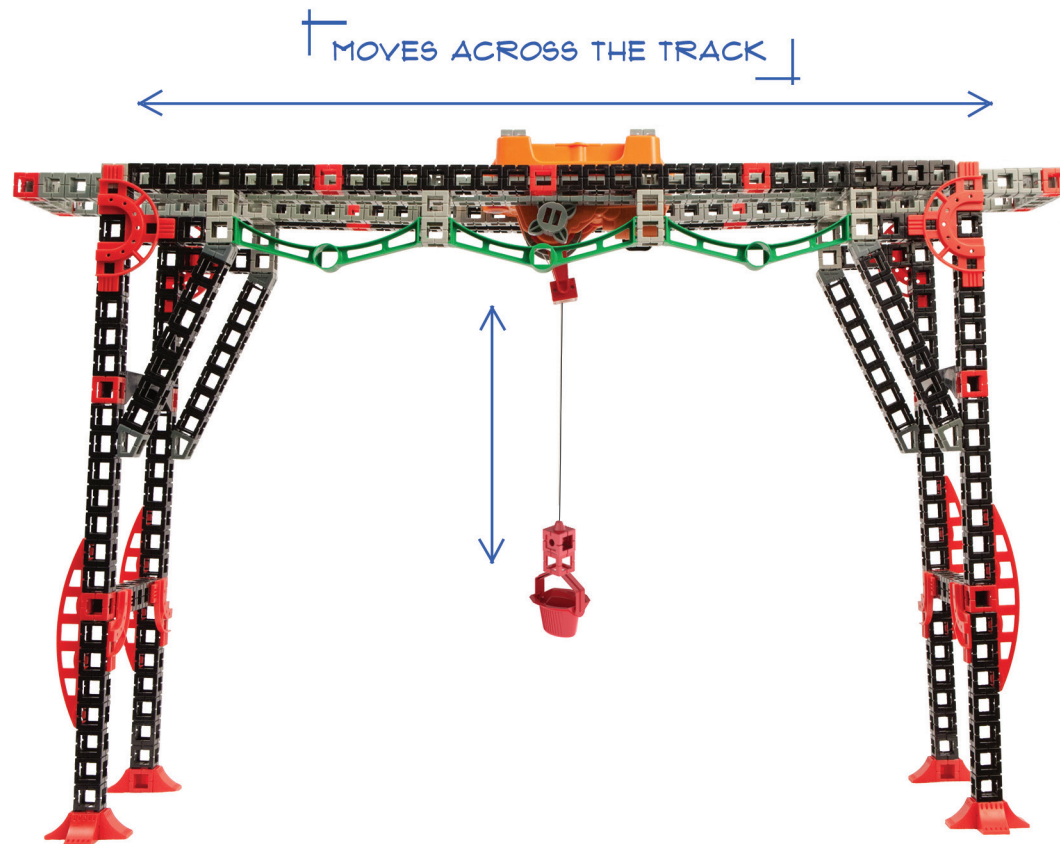
FINAL ASSEMBLY



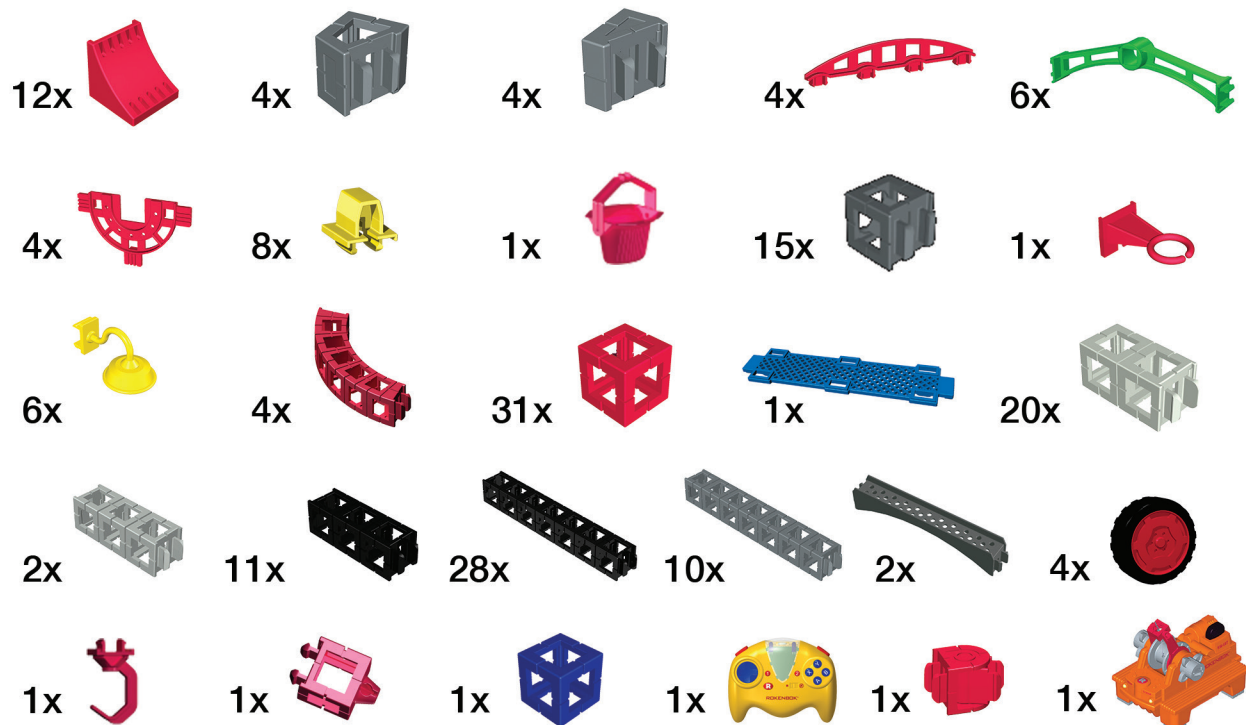
ATTACHING THE WINCH STRING TO THE ELEVATOR

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






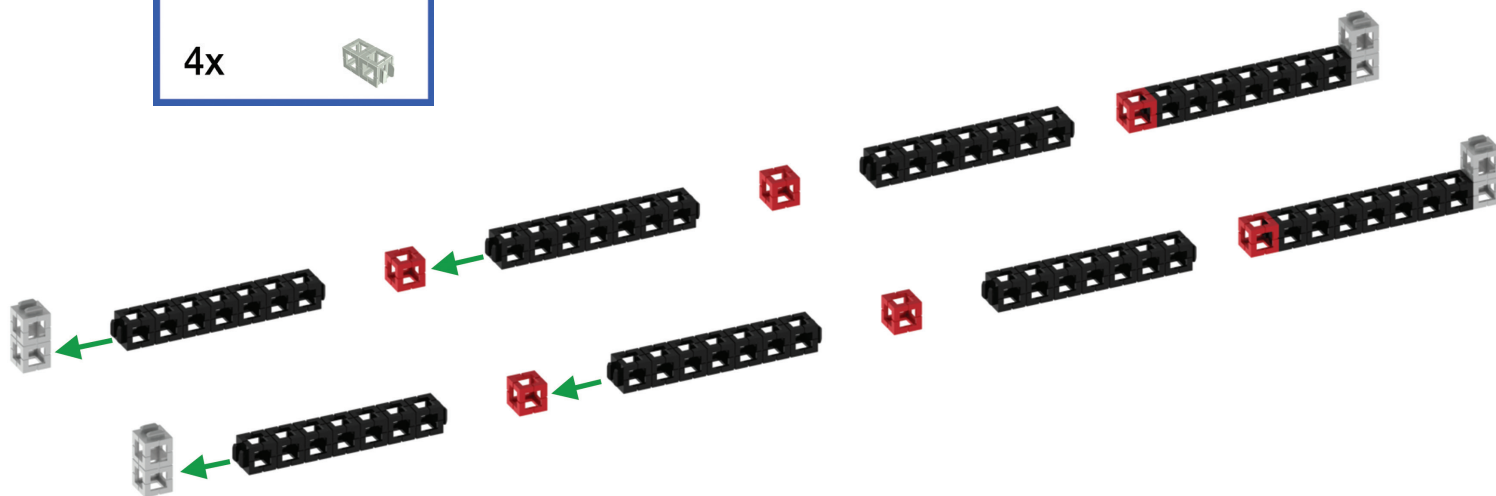
BILL OF MATERIALS







Color of building pieces may differ from those shown.

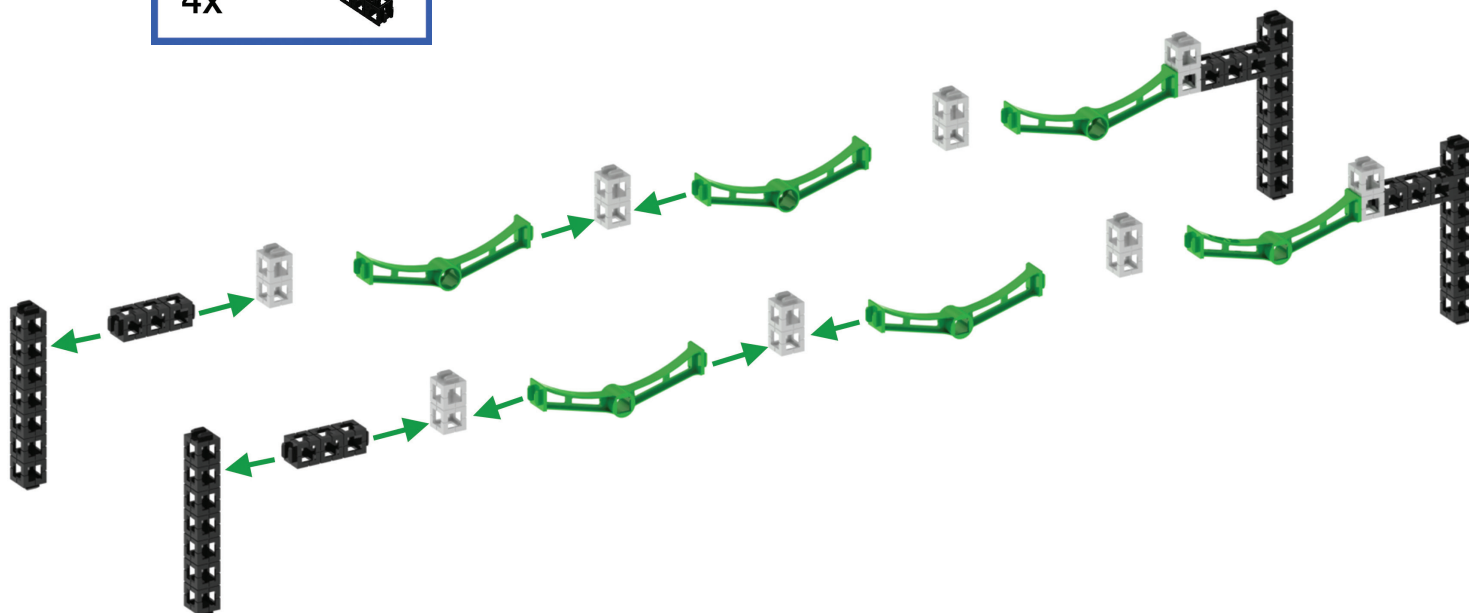
1

8x	
6x	
4x	

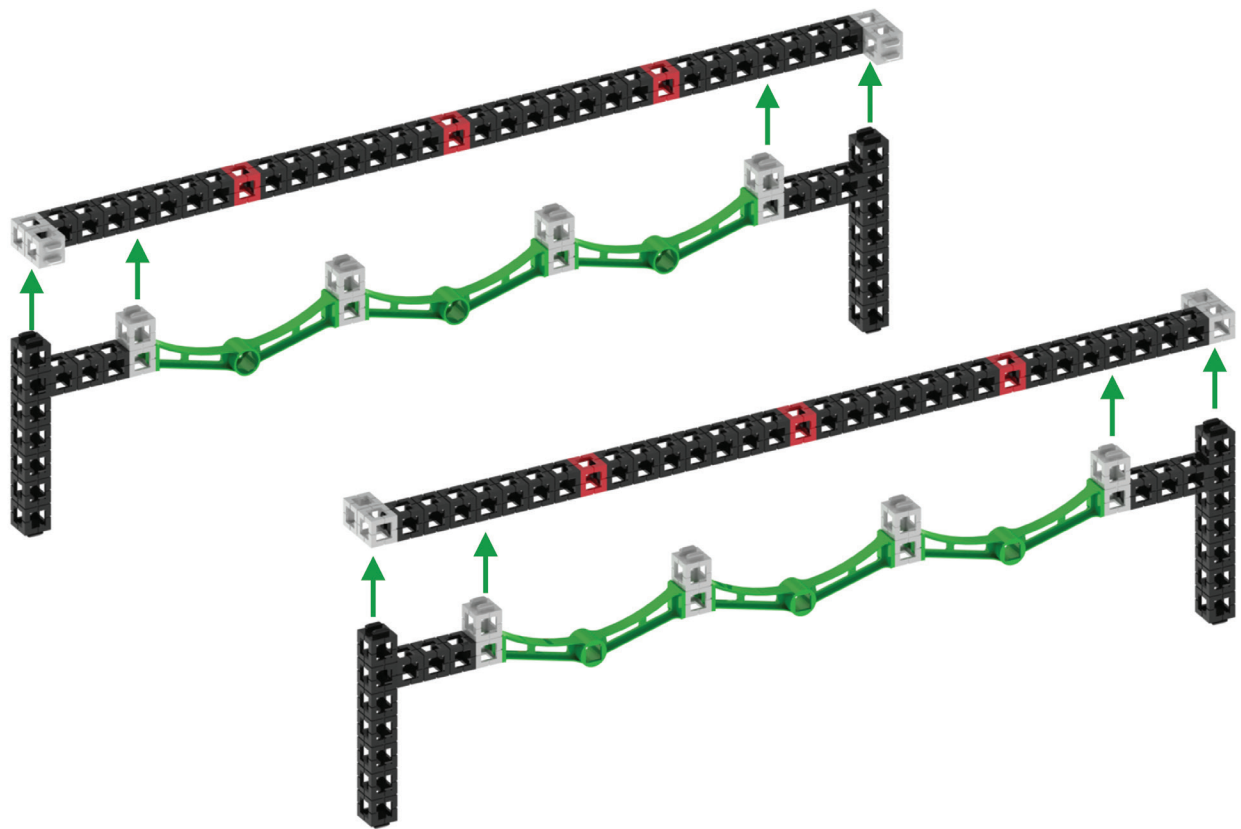


2

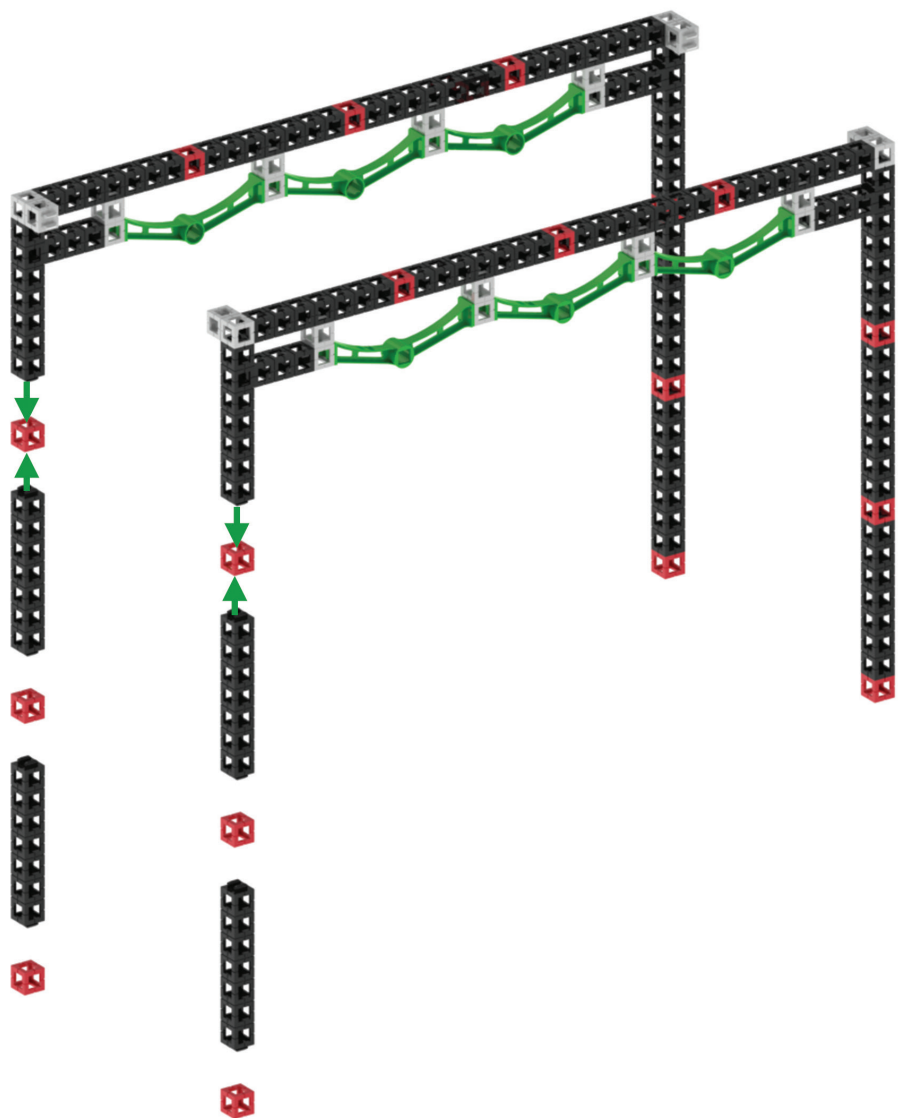
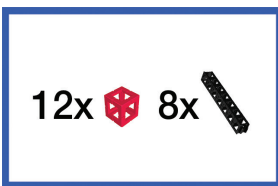
8x	
6x	
4x	
4x	






3

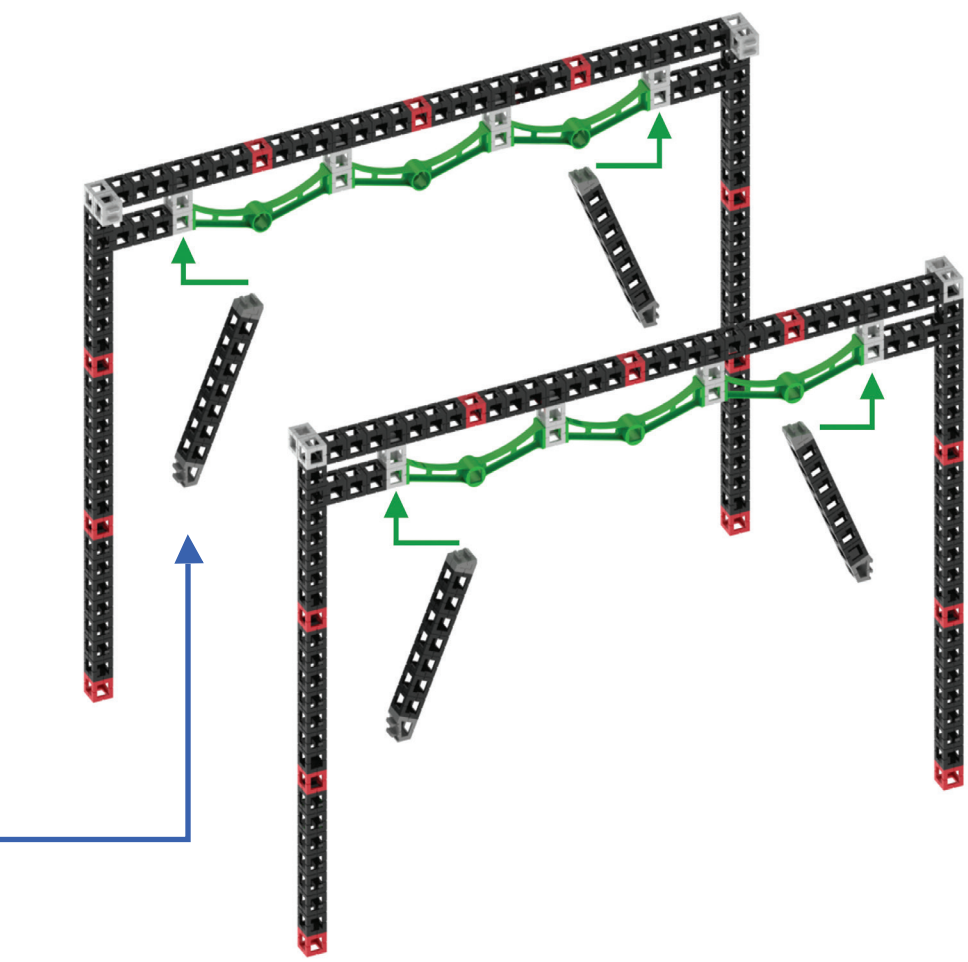
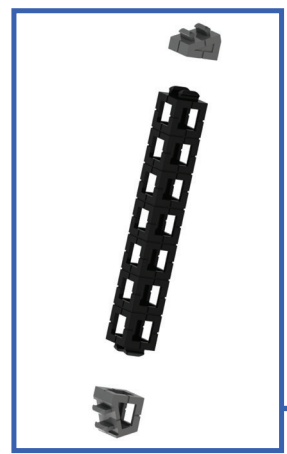


4





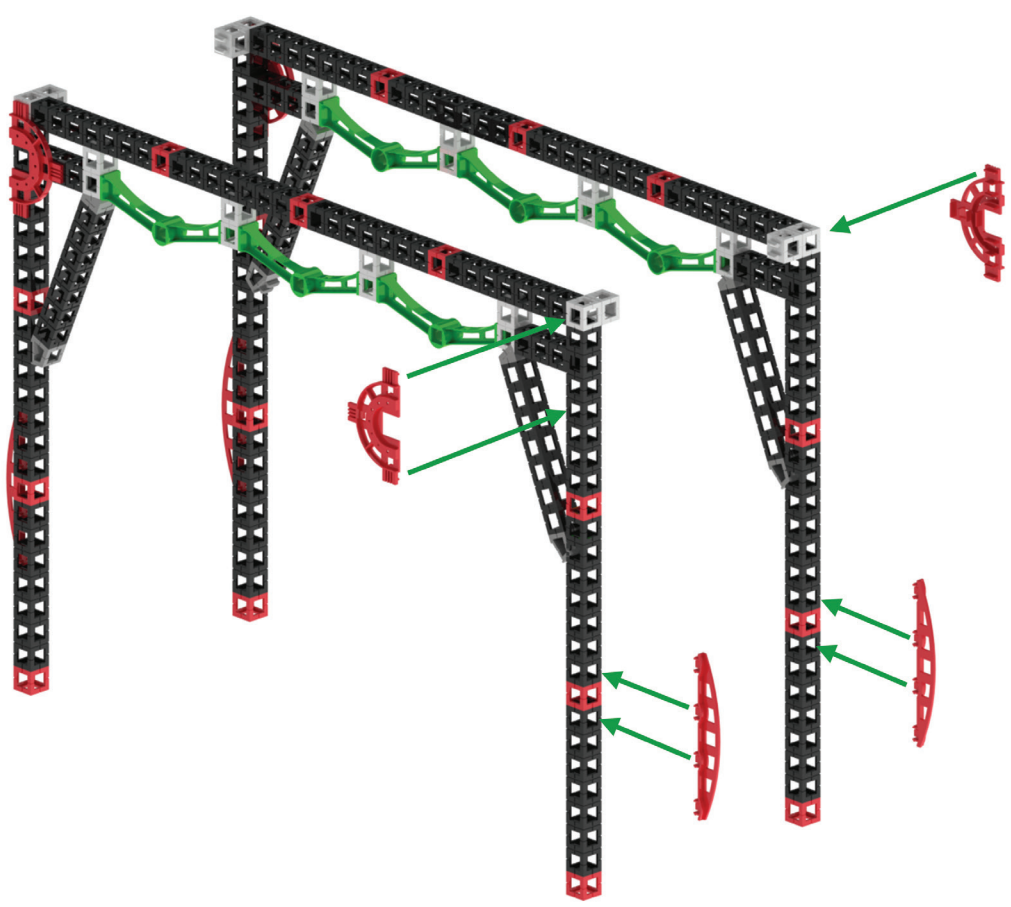
5

- 4x 
- 4x 
- 4x 






6

- 4x  4x 

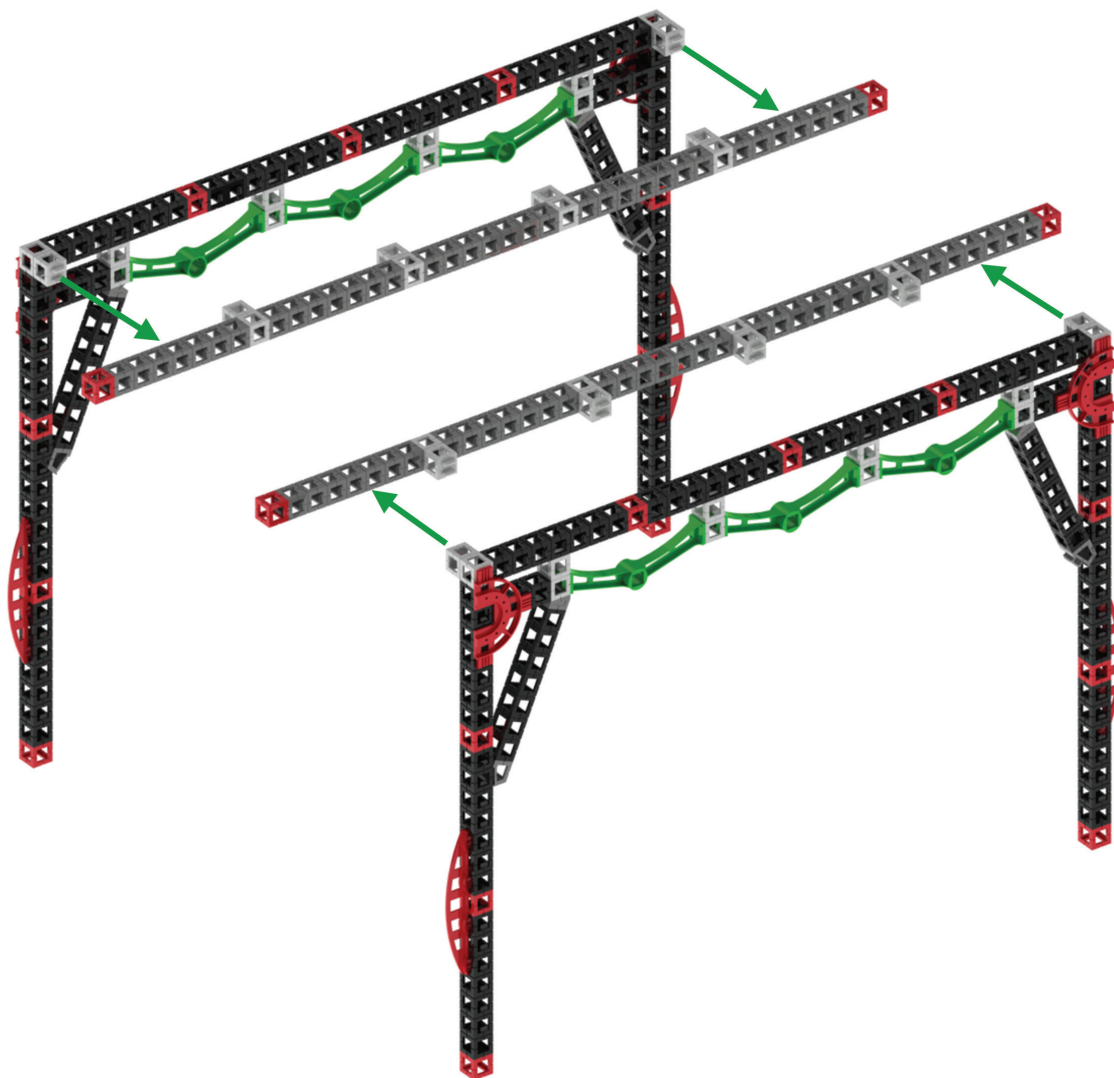


7




10x	
8x	
4x	

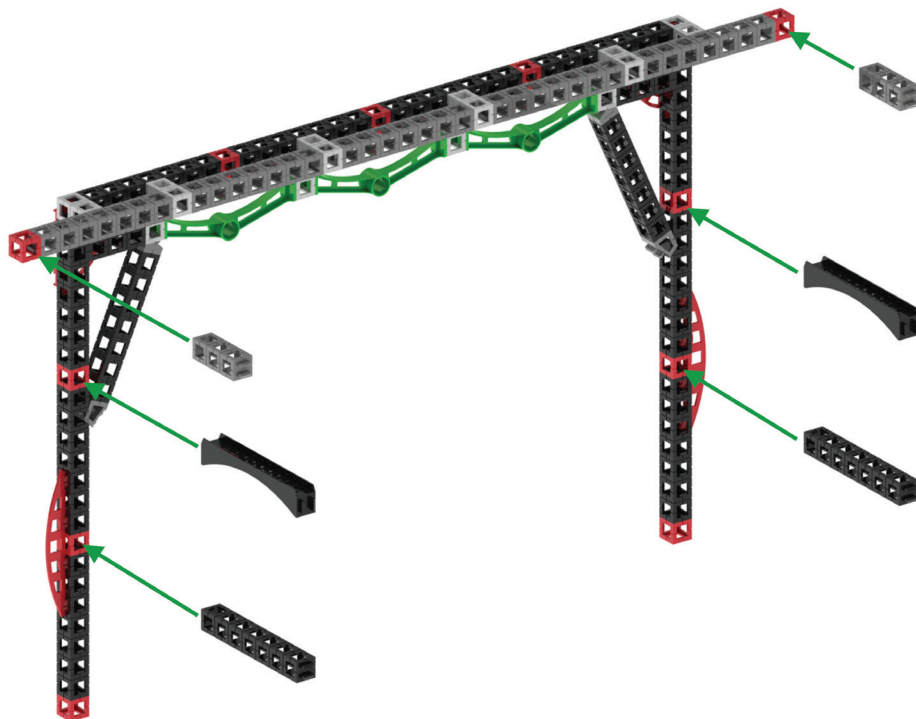


8

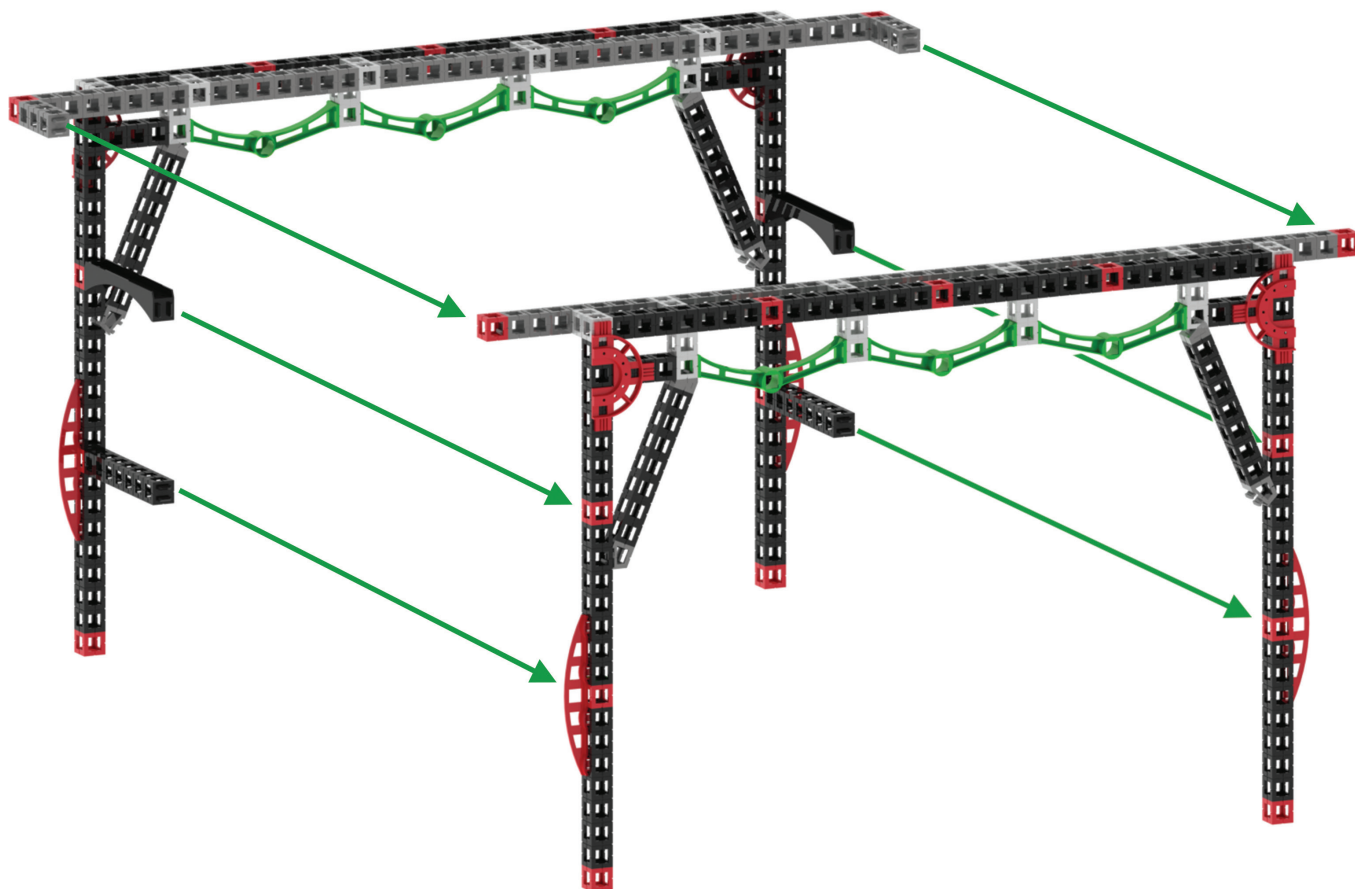


9

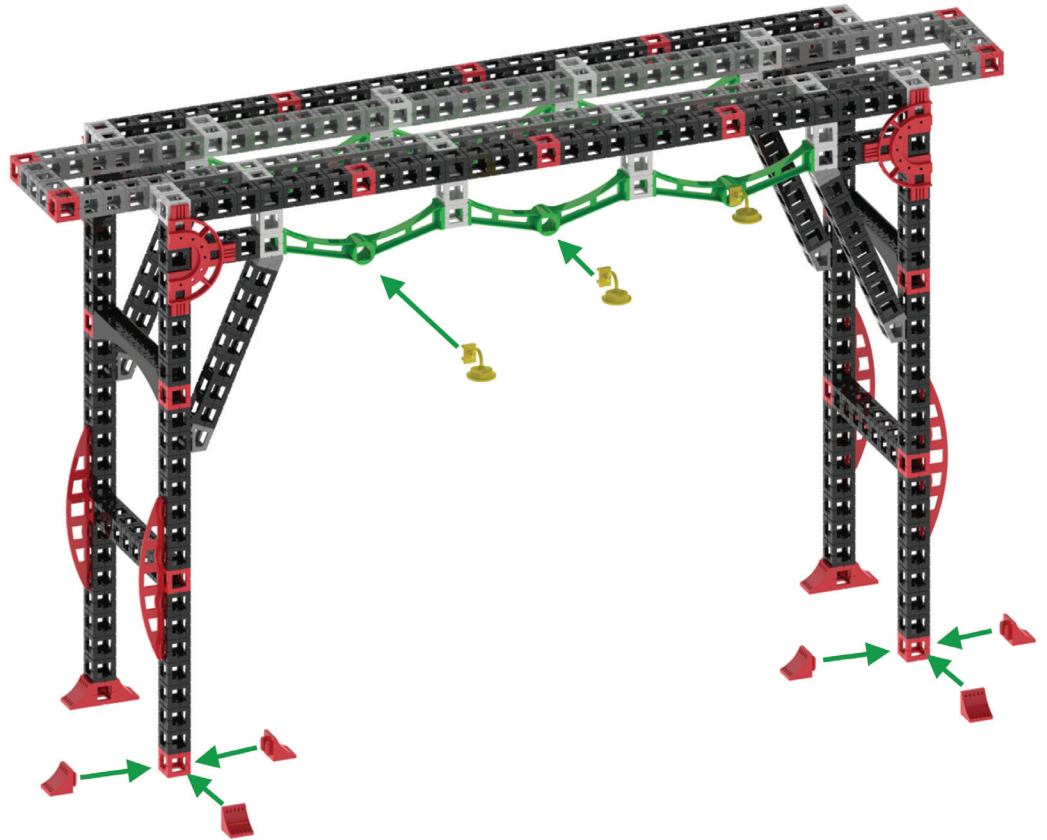
- 2x 
- 2x 
- 2x 



10



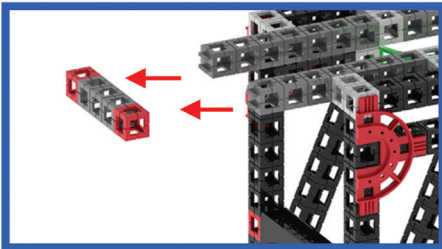
11

12x  6x 

FEED THE X2 ONTO YOUR GANTRY CRANE

12

A.



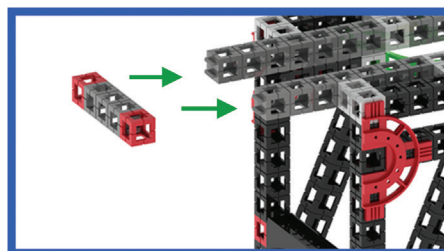
Remove half beam assembly (as shown).

B.



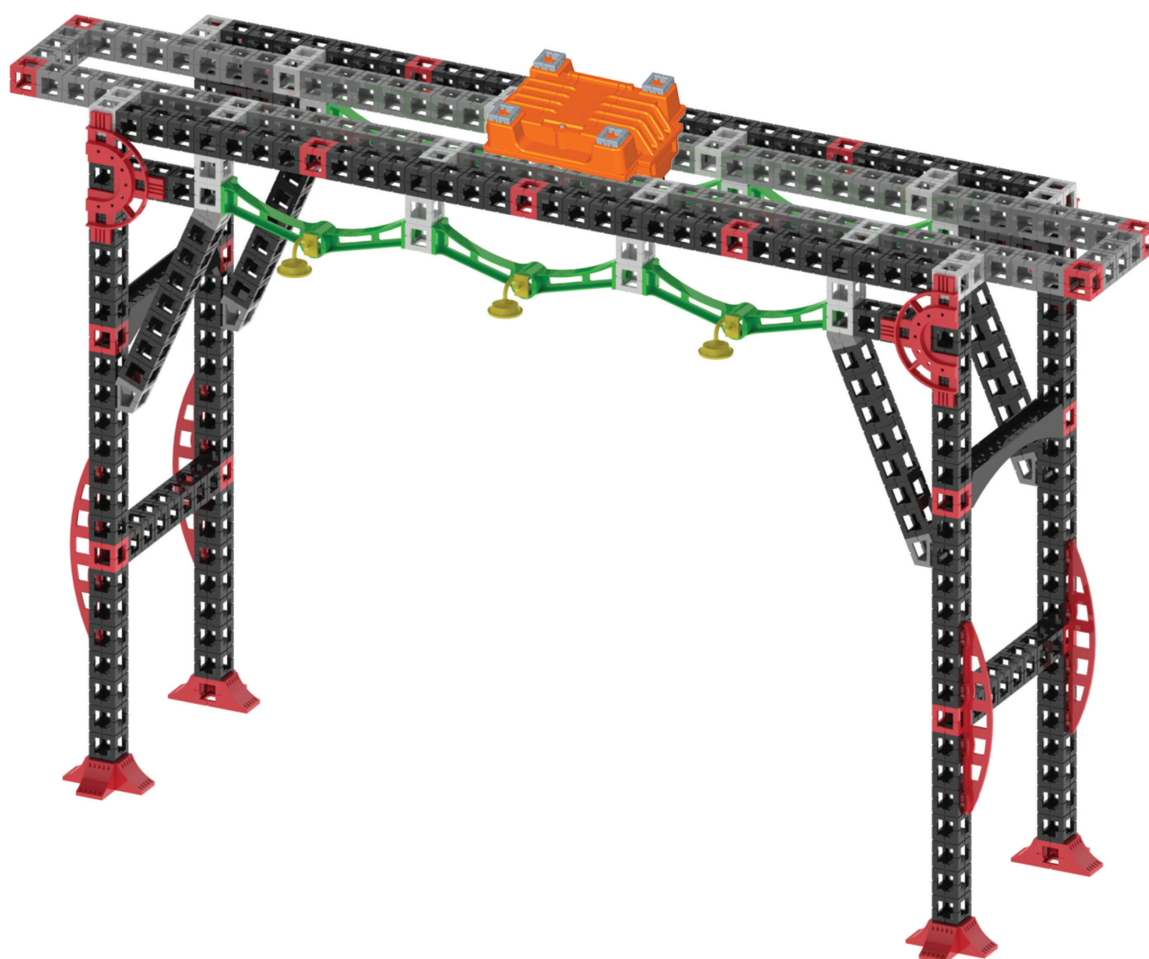
Turn X2 upside down (as shown).
Using the ROK Star Controller
directional wheel, press forward
and feed X2 onto Gantry Crane.

C.



Replace half beam assembly (as shown).

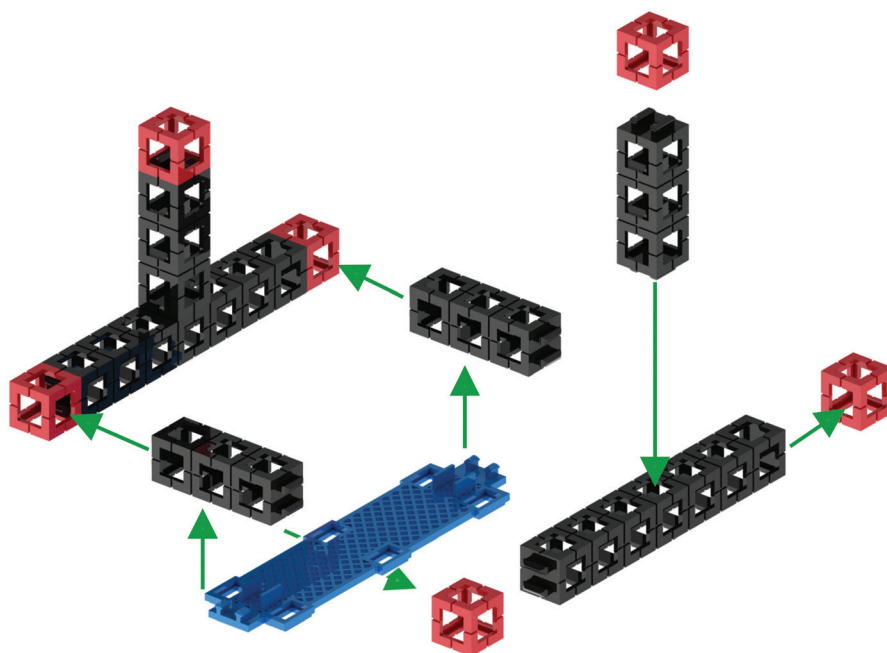
13



GANTRY CRANE EXTENSION - TRAILER

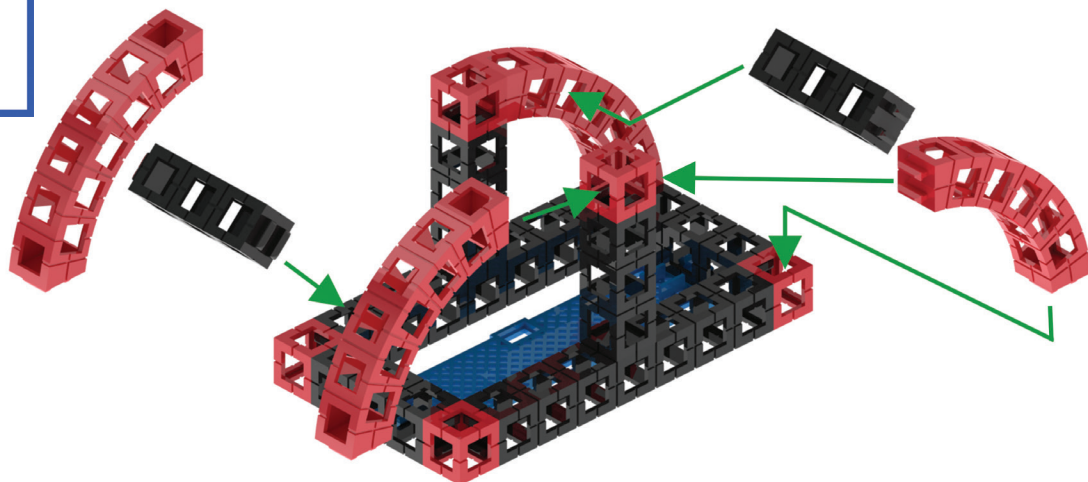
1

6x	
4x	
2x	
1x	



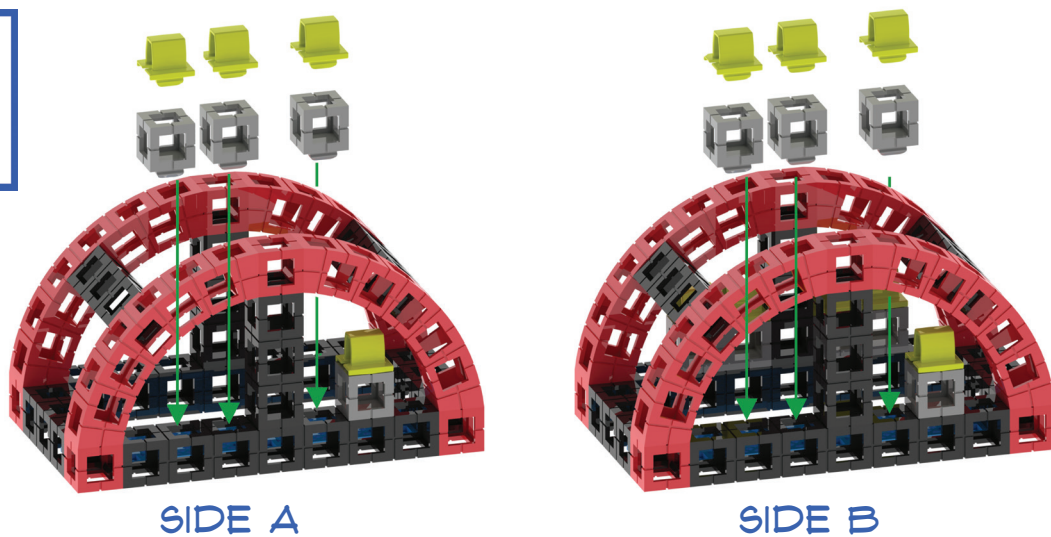
2

4x  2x 



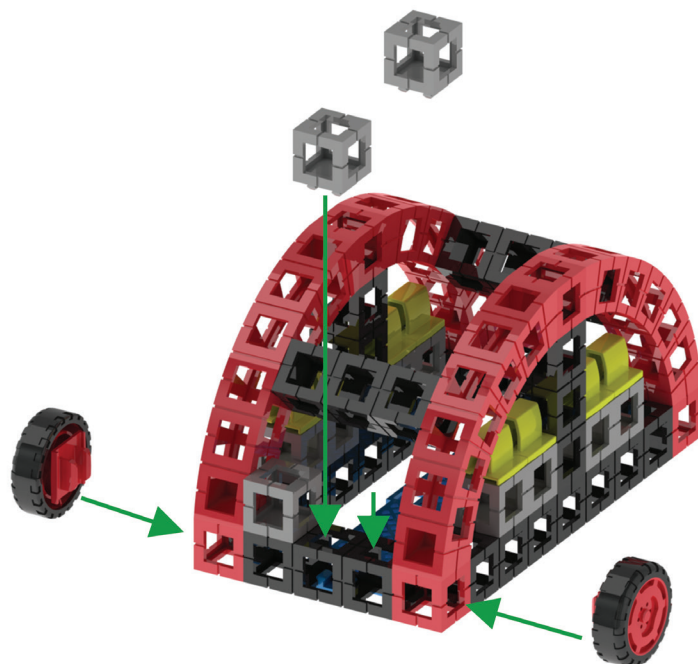
3

8x  8x 









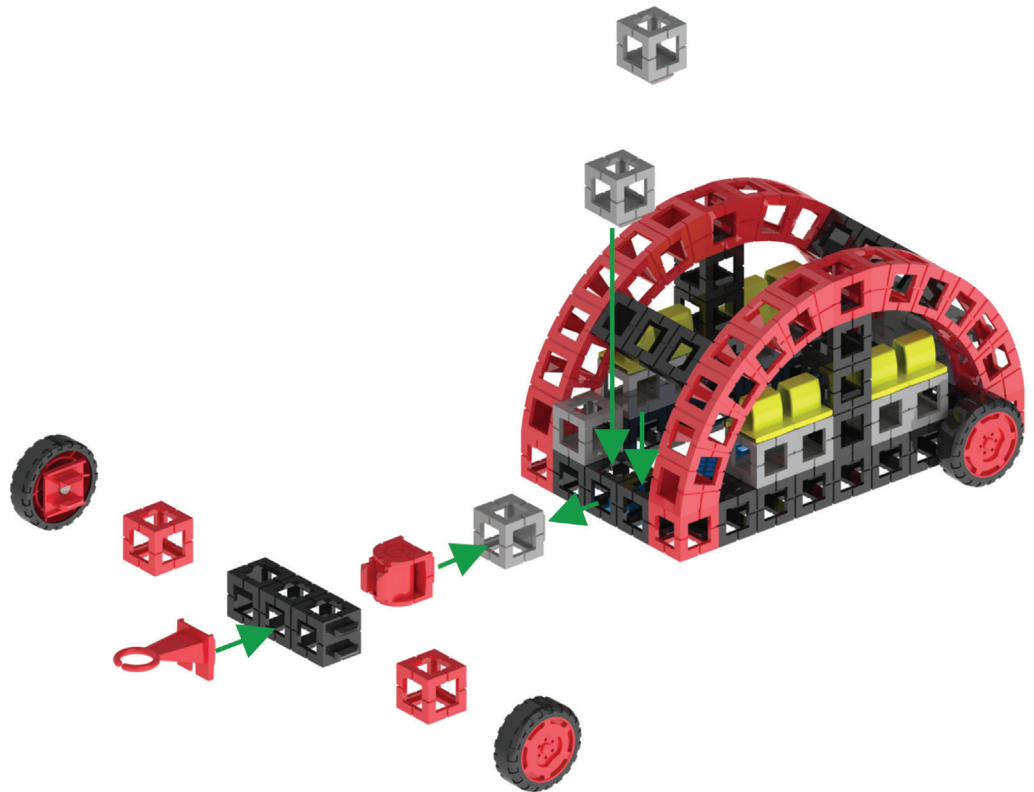
4

3x  2x 

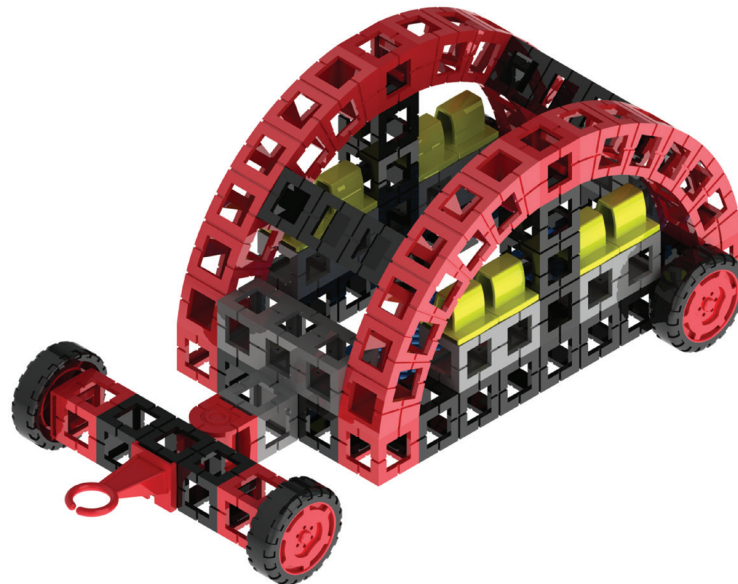


5

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






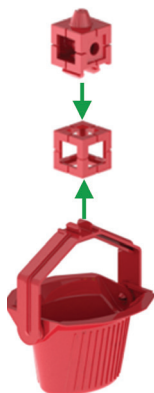
FINAL ASSEMBLY






ADDITIONAL GANTRY CRANE EXTENSION - BUCKET AND HOOK

1

1x	
1x	
1x	

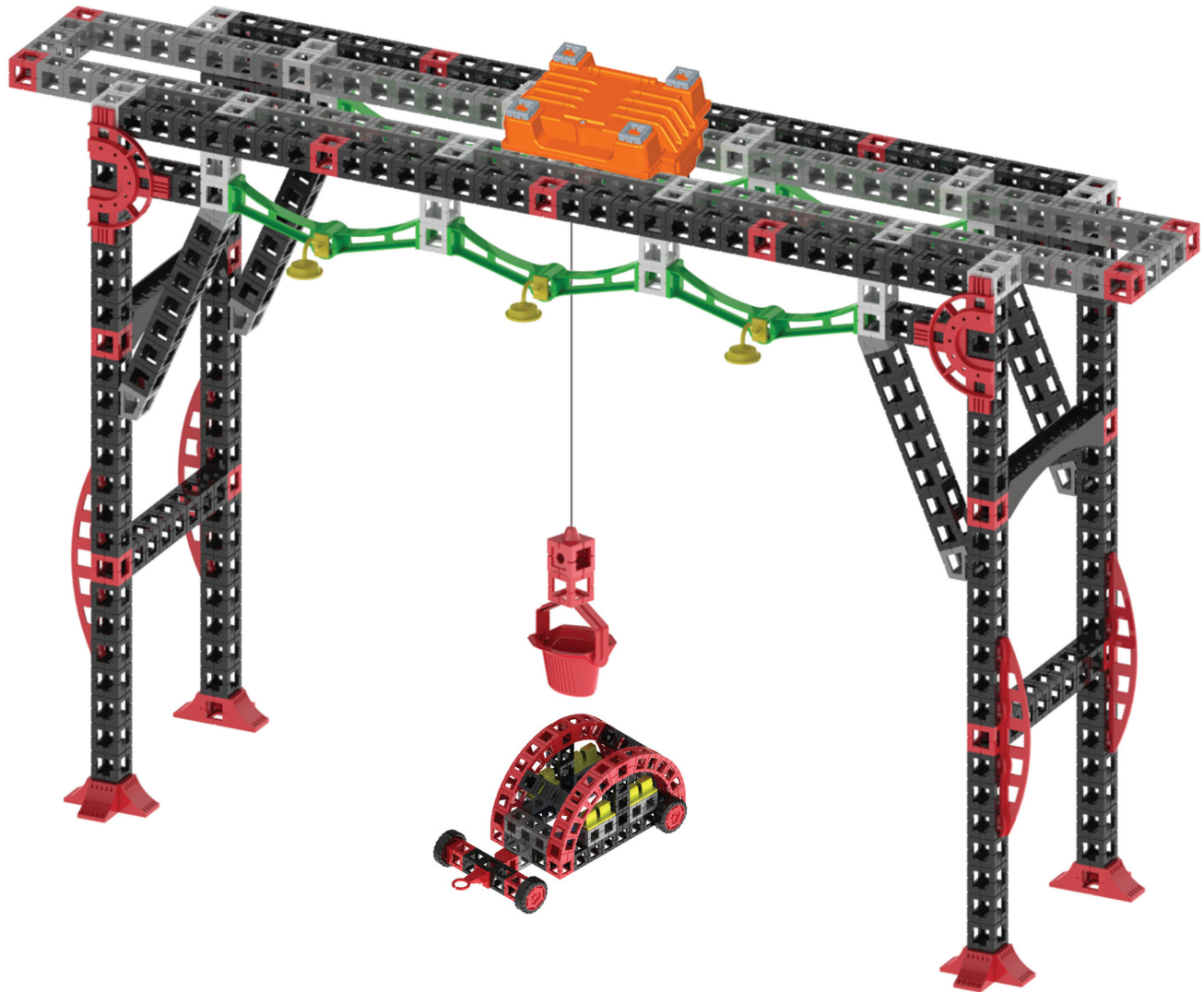


2

1x	
1x	
1x	



FINAL ASSEMBLY WITH EXTENSIONS



CREATE YOUR OWN ADVENTURE!



GEAR CRANE

LIFTS HEAVIER LOADS








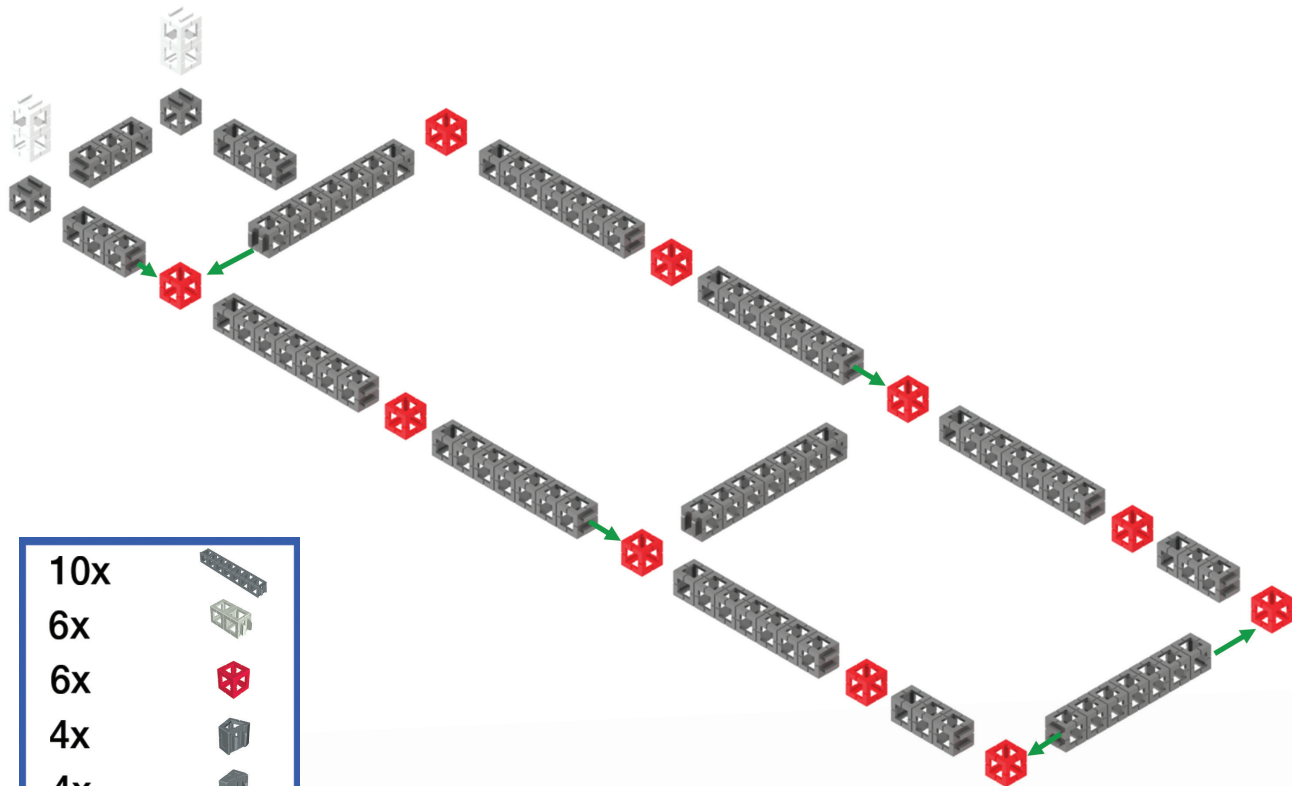
BILL OF MATERIALS

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.

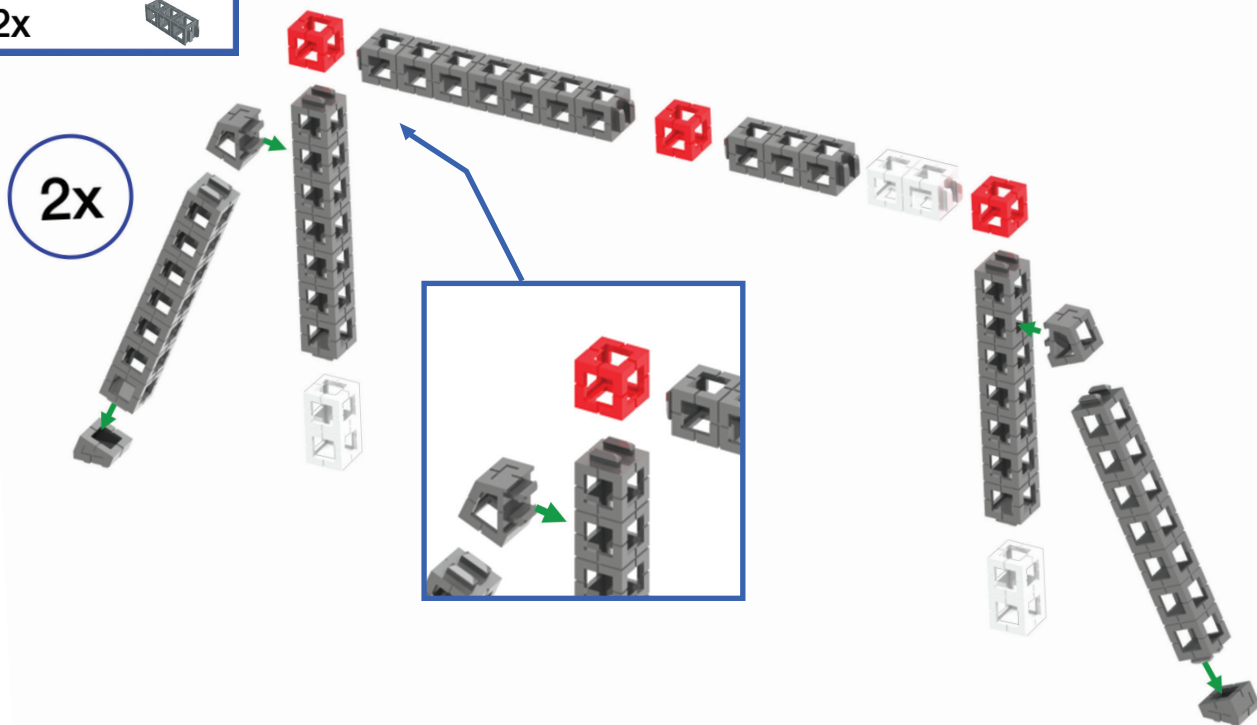
1

10x	
9x	
5x	
2x	
2x	

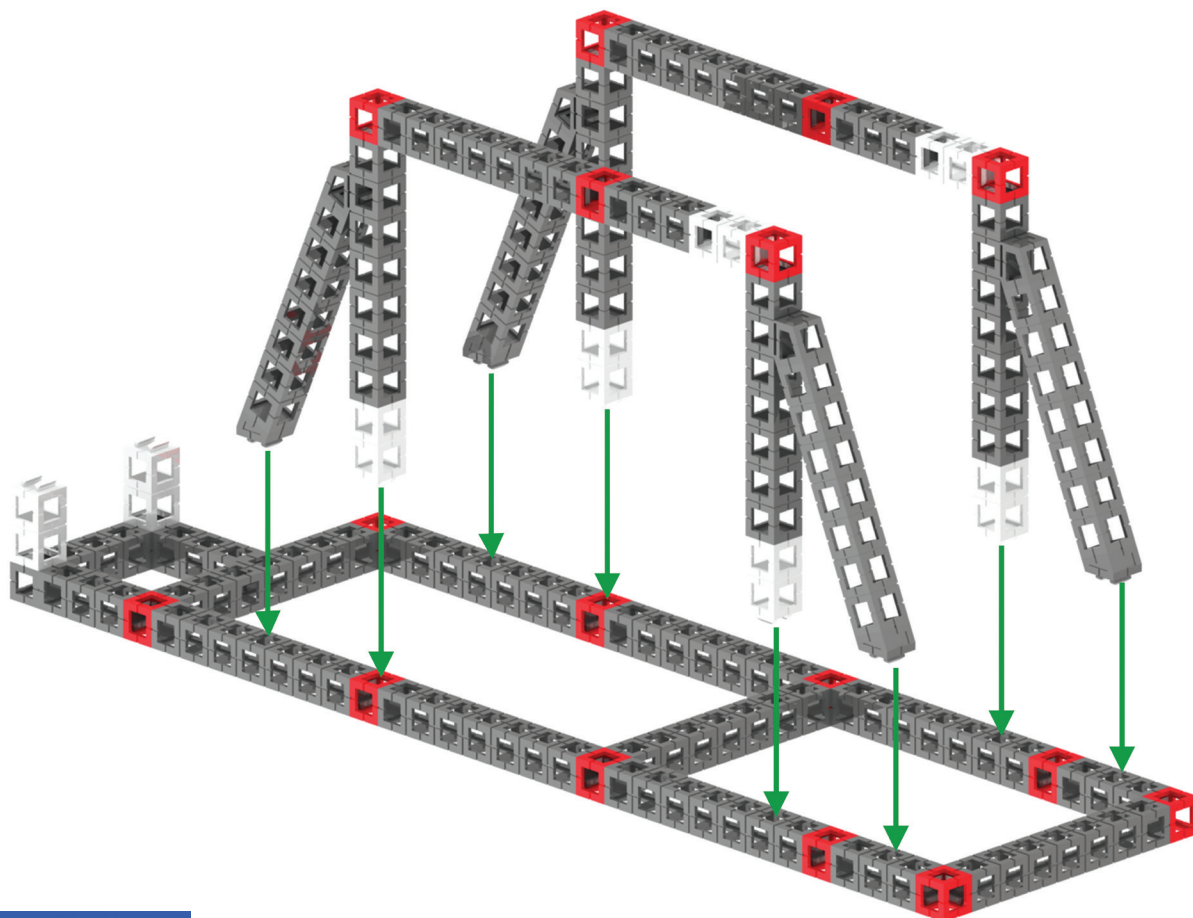


2

10x	
6x	
6x	
4x	
4x	
2x	

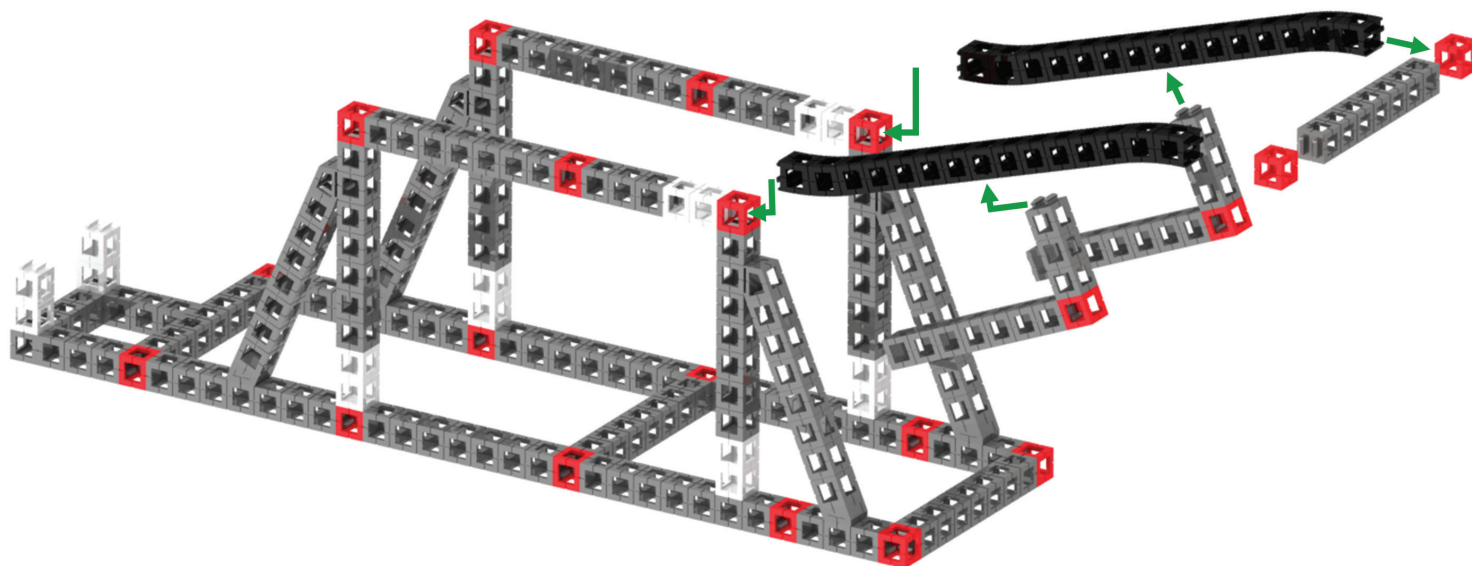


3









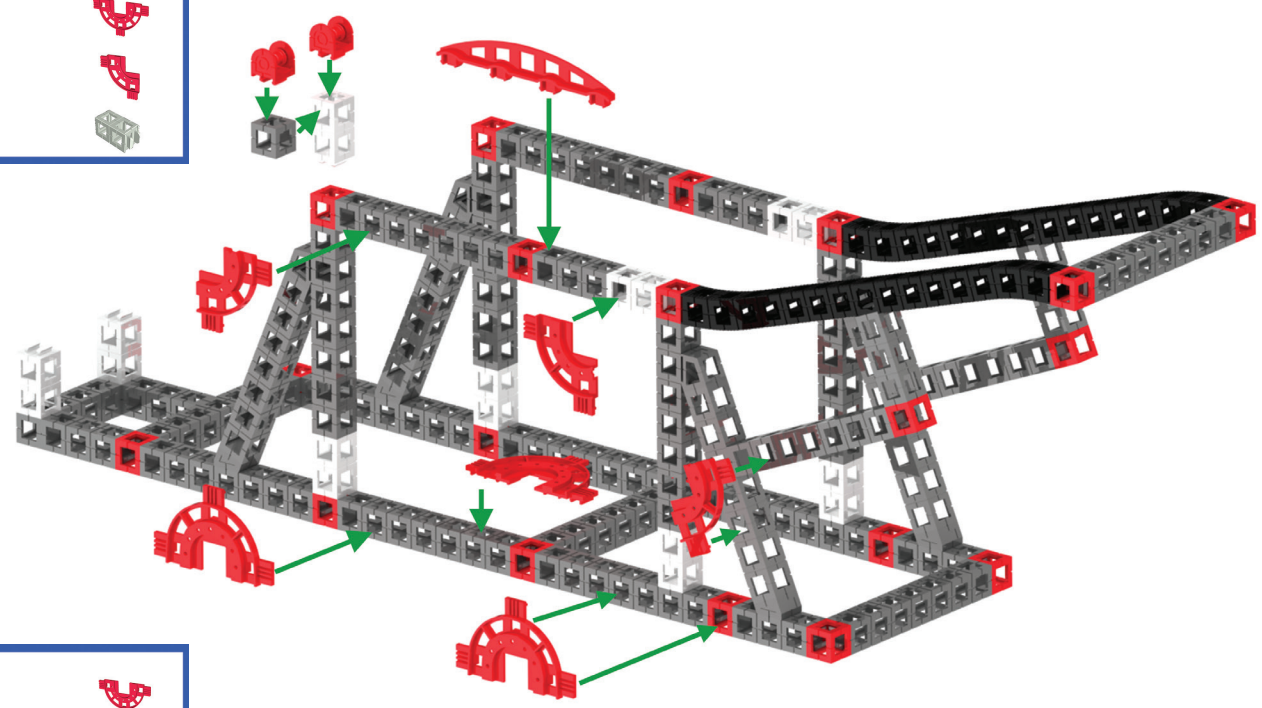
4

- | | |
|----|--|
| 4x | |
| 3x | |
| 2x | |
| 2x | |







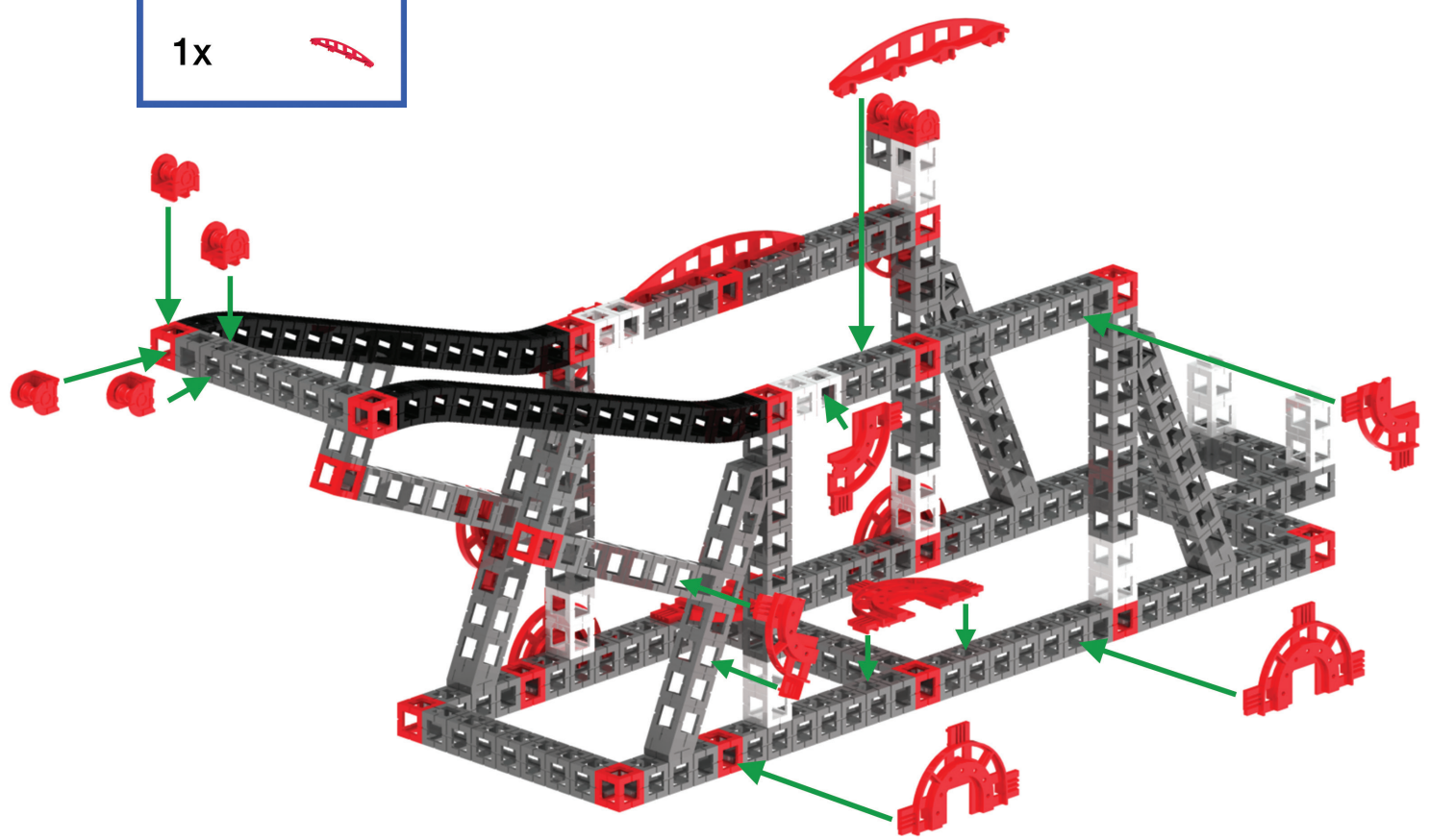
5

- 2x 
- 1x 
- 1x 
- 3x 
- 3x 
- 1x 








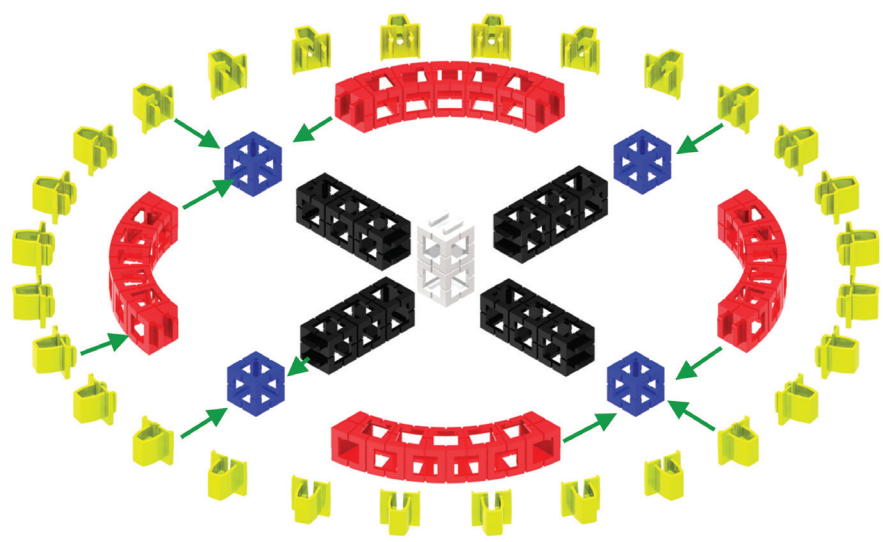
6

- 3x 
- 3x 
- 4x 
- 1x 








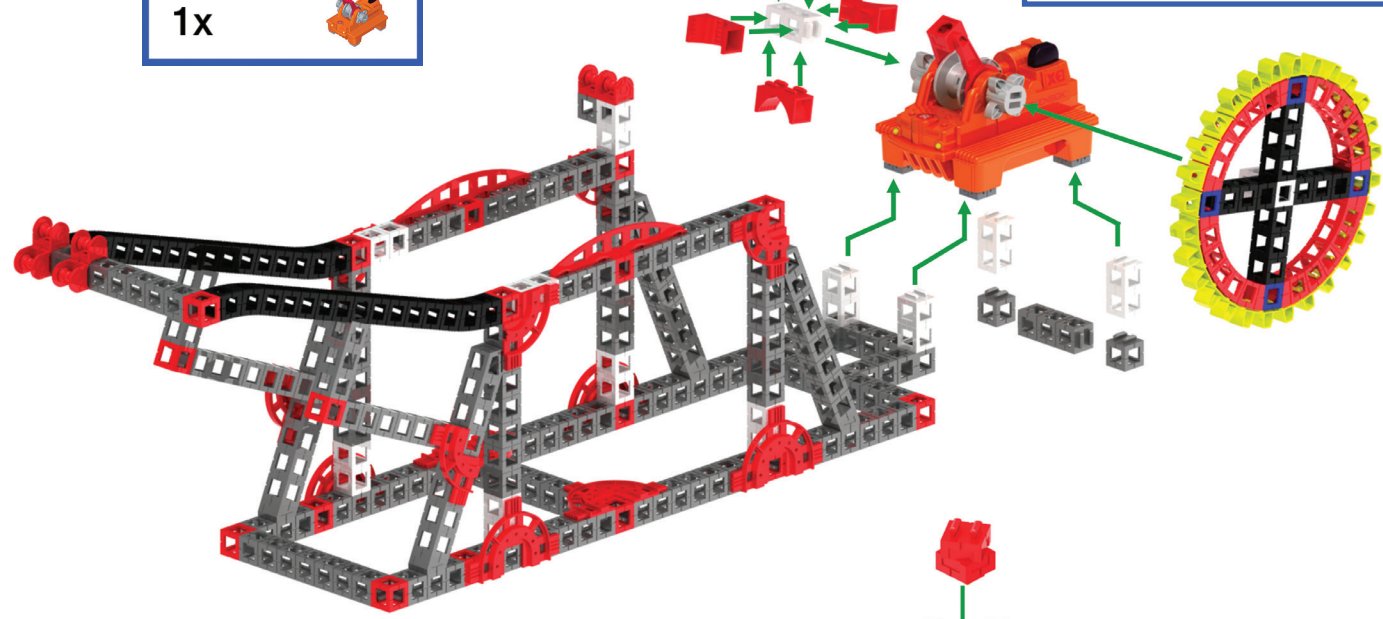
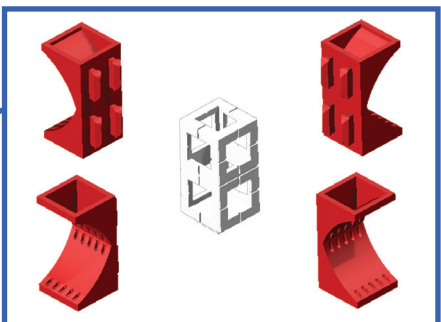
7

- 28x 
- 4x 
- 4x 
- 4x 
- 1x 









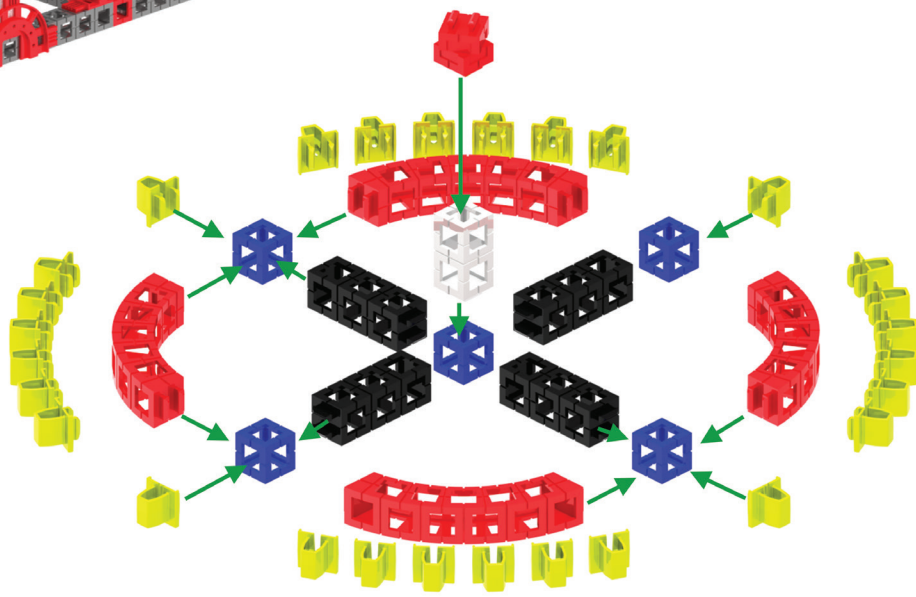
8

- 8x 
- 3x 
- 2x 
- 1x 
- 1x 









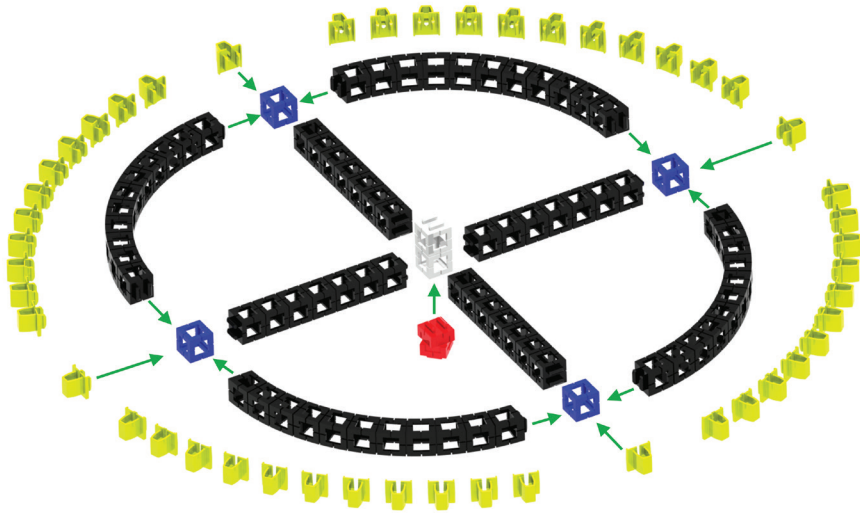
9

- 28x 
- 5x 
- 4x 
- 4x 
- 1x 
- 1x 



10

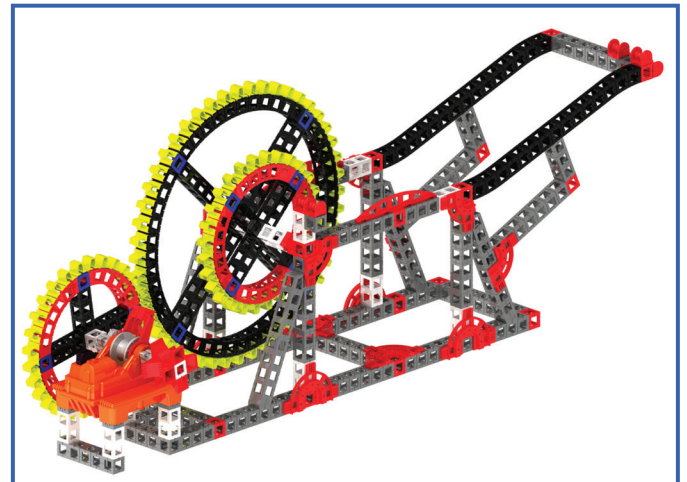
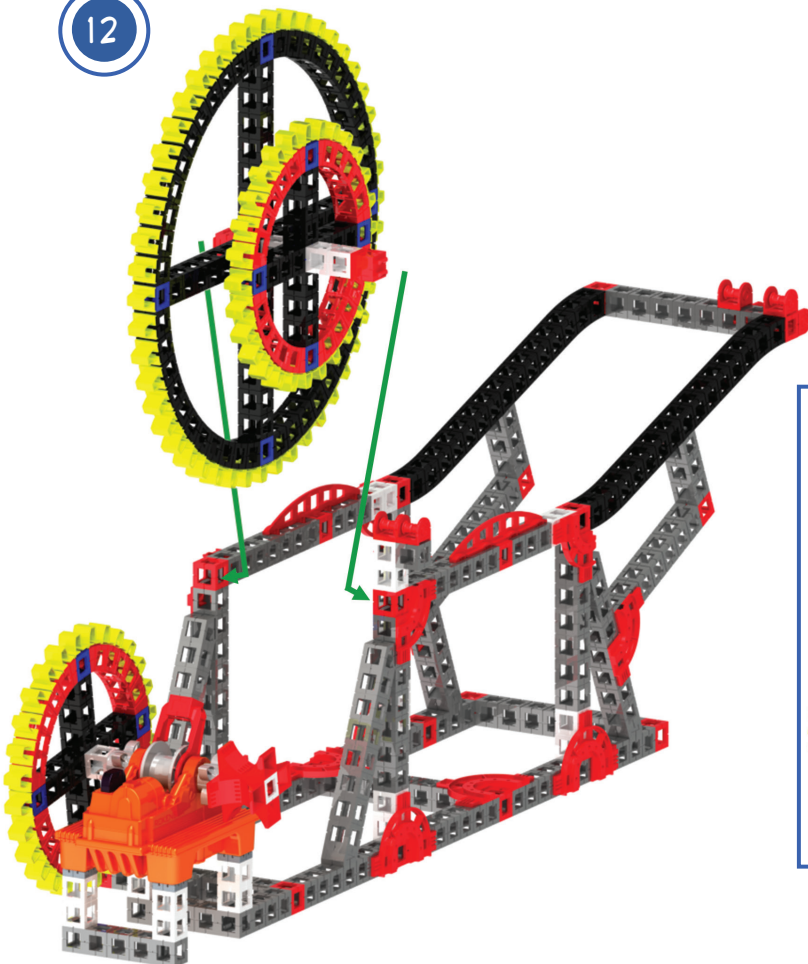
48x	
4x	
4x	
4x	
1x	
1x	



11










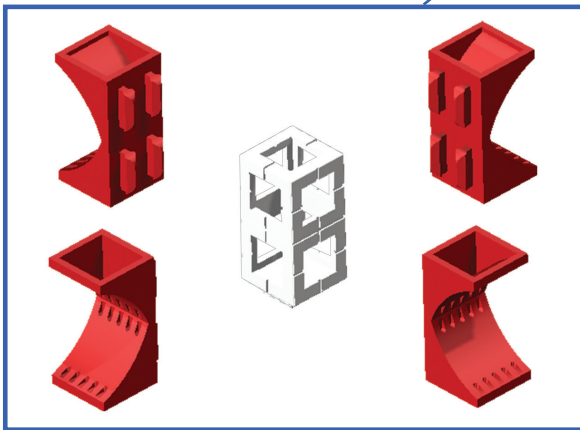
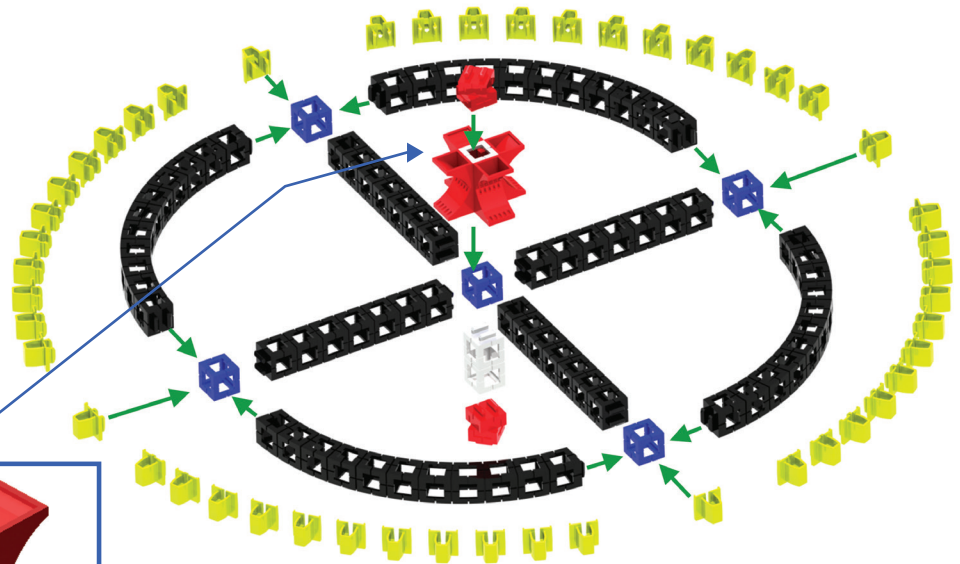
12



IN PLACE

13

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

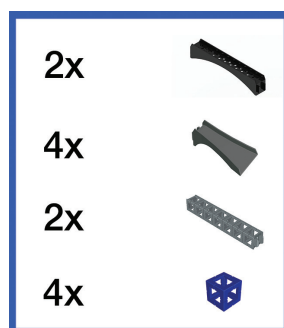


14

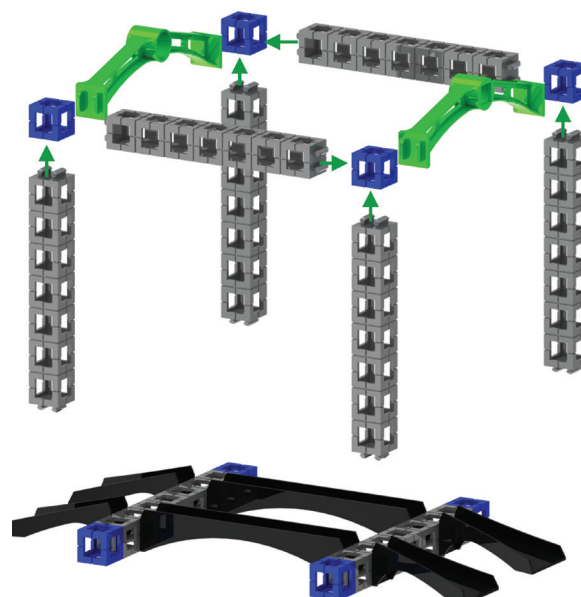
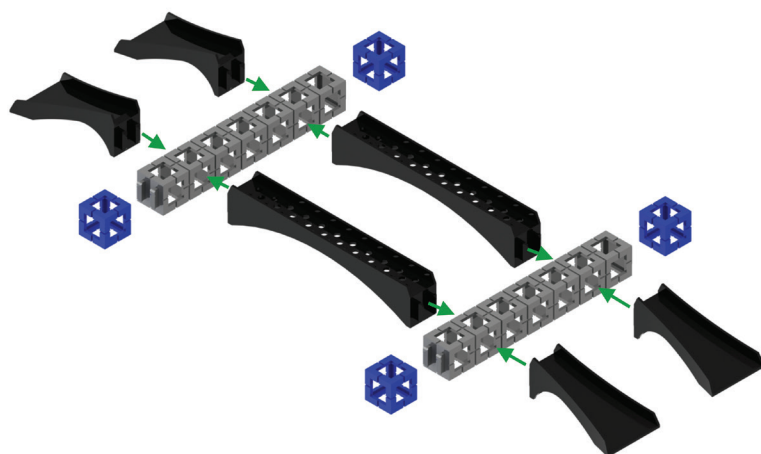
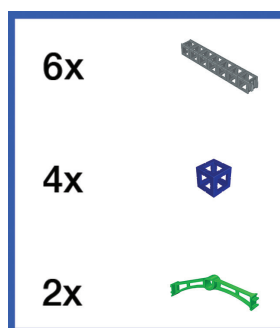


GEAR CRANE EXTENSION - ELEVATOR

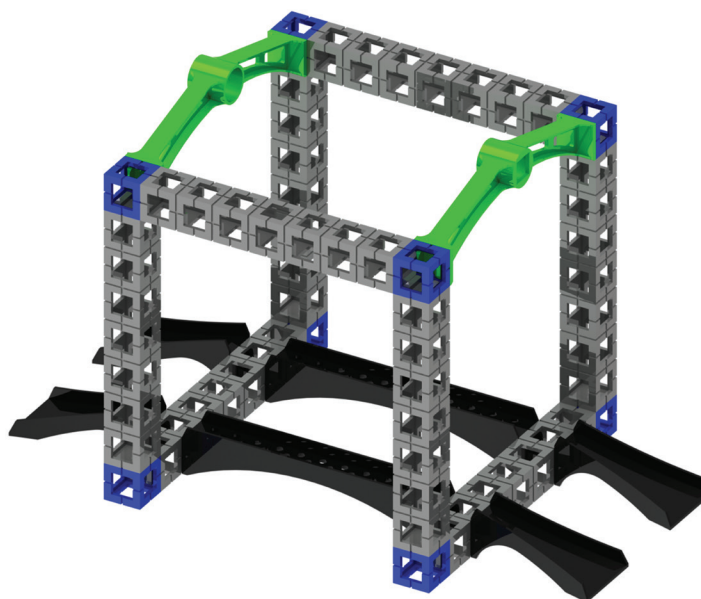
1



2



FINAL ELEVATOR ASSEMBLY

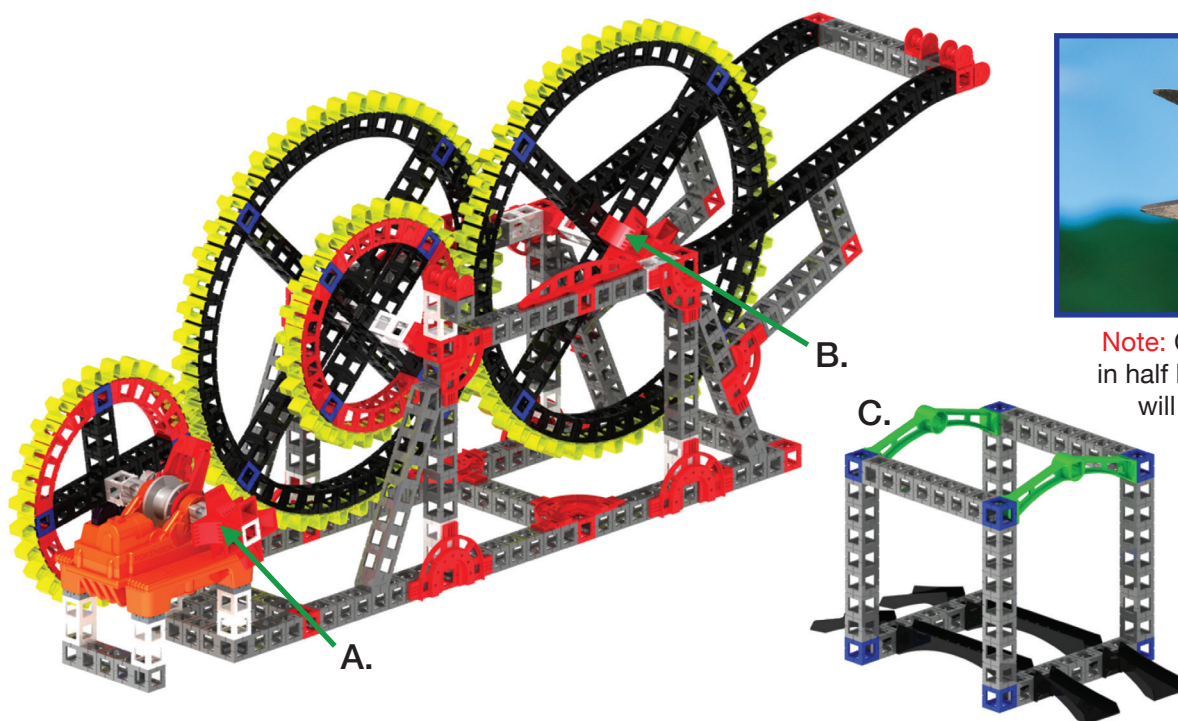


FINAL ASSEMBLY/STRINGING GEAR CRANE

1x 



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



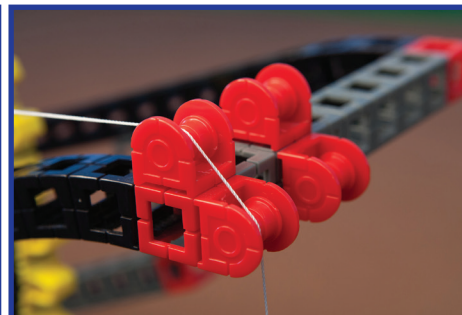
A. Axle Spool: Lifts lighter loads quickly.



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



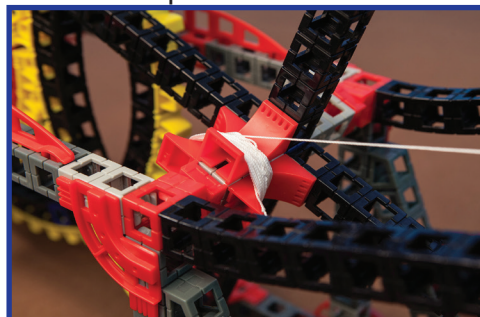
Route the string up and over the outer pulley.



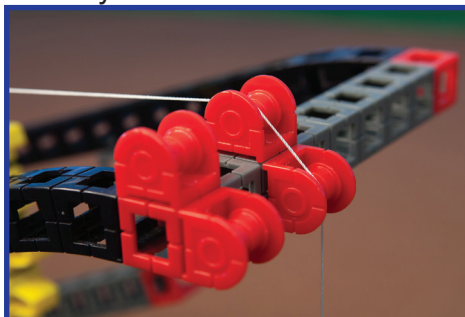
Bring the string down and attach it to the Elevator (Step C).

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

B. Wheel Spool: Lifts heavier loads slowly.

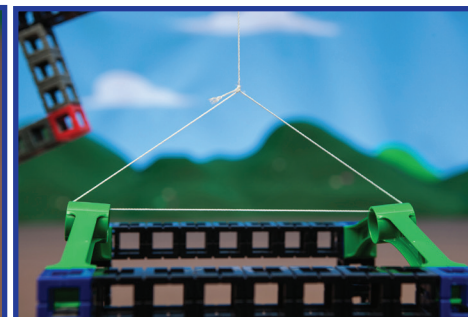


Tie the string around the middle of the large wheel spool.



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!**

ROKENBOK®

*Teaching Kids to Make
Things That Do Things*

©2014 Rokenbok Toy Company. All rights reserved. ROKENBOK® is a registered trademark of the Rokenbok Toy Company.

The Rokenbok system was created with your child's best interests in mind. All Rokenbok products are designed for high quality, precision and safety, and conform to the requirements of ASTM F963.

Lifetime warranty on ROK Star Control Electronics and Building Components. All Rokenbok machines are warranted against defects in material and workmanship for a period of six months from the date of original purchase when used under normal operating conditions. Warranty only valid with original sales receipt. See warranty insert for full details.

Please retain this packaging as it contains important information regarding the use of this product. The tracking information is located on underside of the machine. Product may vary from photography shown.

For indoor use only.
Made in China.

Rokenbok Toy Company
Solana Beach, CA 92075 (USA) Phone (858) 259-4433
1-888-4ROKBOK (1-888-476-5265)
Email: customerservice@rokenbok.com

Visit us!

www.rokenbok.com

