

\$9.99

K'NEX®

BOOK OF BIG **IDEAS**

OVER

100

**FUN THINGS
TO BUILD**



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 WARNING:

CHOKING HAZARD – Small Parts.
Not for Children under 3 years.



AVERTISSEMENT!

Danger d'étouffement. Pièces de petite taille.
Ne pas donner aux enfants de moins de 3 ans.

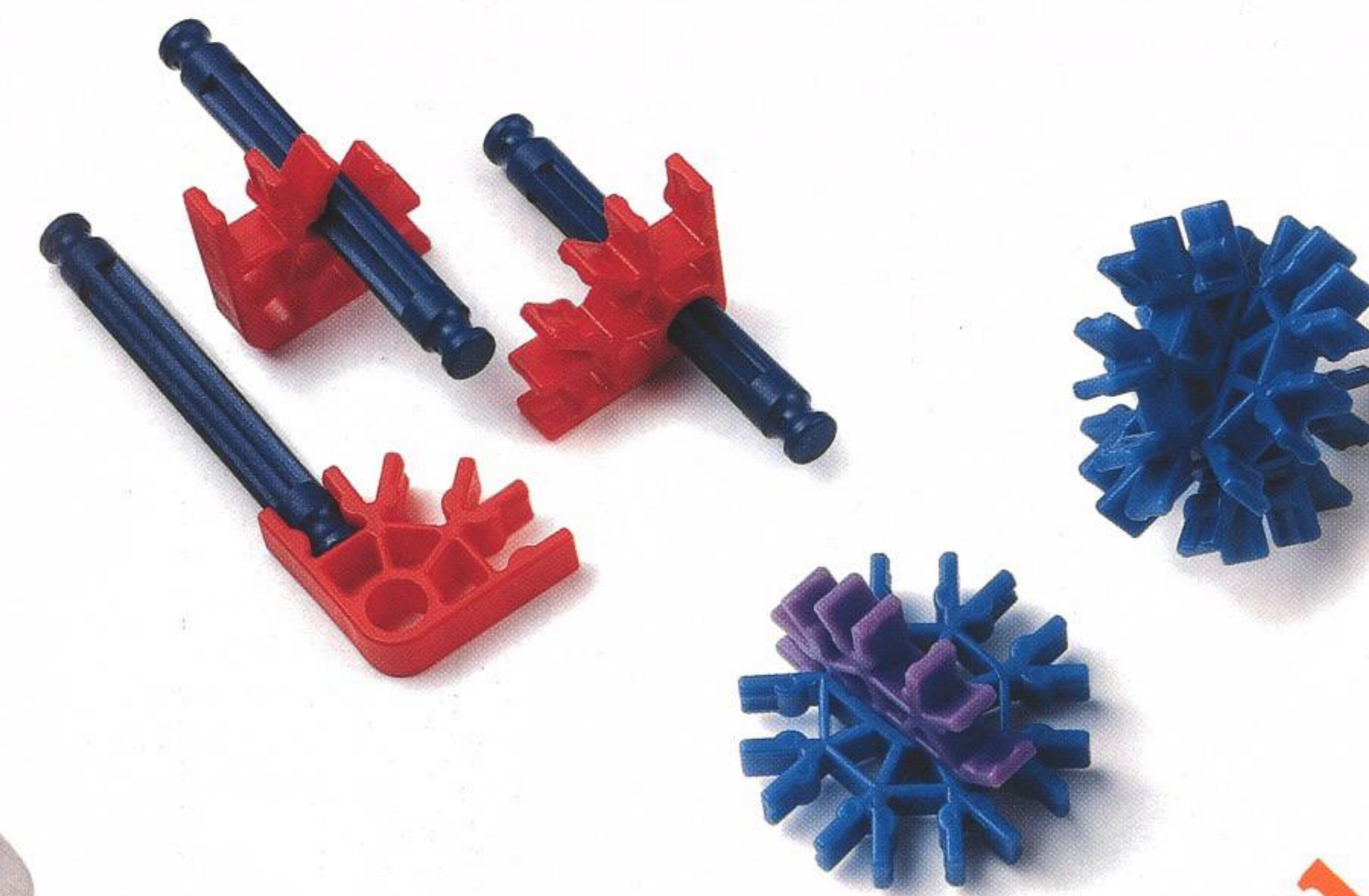
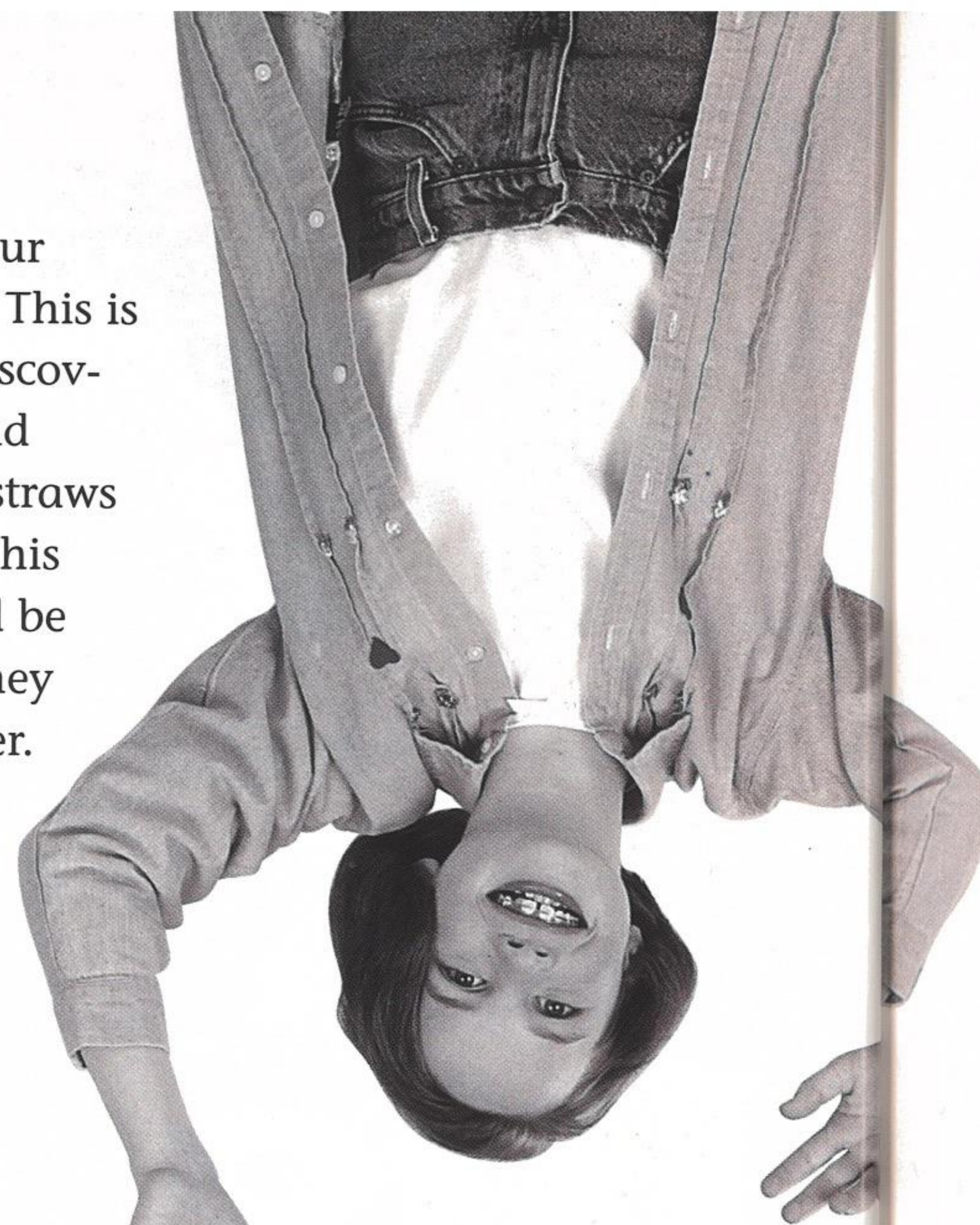
What's a **Big Idea**



Believe it or not,
there are Big Ideas all
around, just waiting to
be discovered. It doesn't
matter whether you're a
kid or a grown-up...

So if you keep your eyes and ears and your imagination open, you're sure to find them. This is just what happened when Joel Glickman "discovered" his big idea. Sitting at a party with loud music blaring in his ears, he began to stick straws on the end of his fork. Something clicked in his head, and Joel realized that the straws could be made into all sorts of interesting shapes if they had the right pieces to connect them together.

That's how the really big idea of K'NEX came into being. It started with an inspiration and, with much designing and hard work, became the combination of Rods and Connectors that make up the unique K'NEX building system.

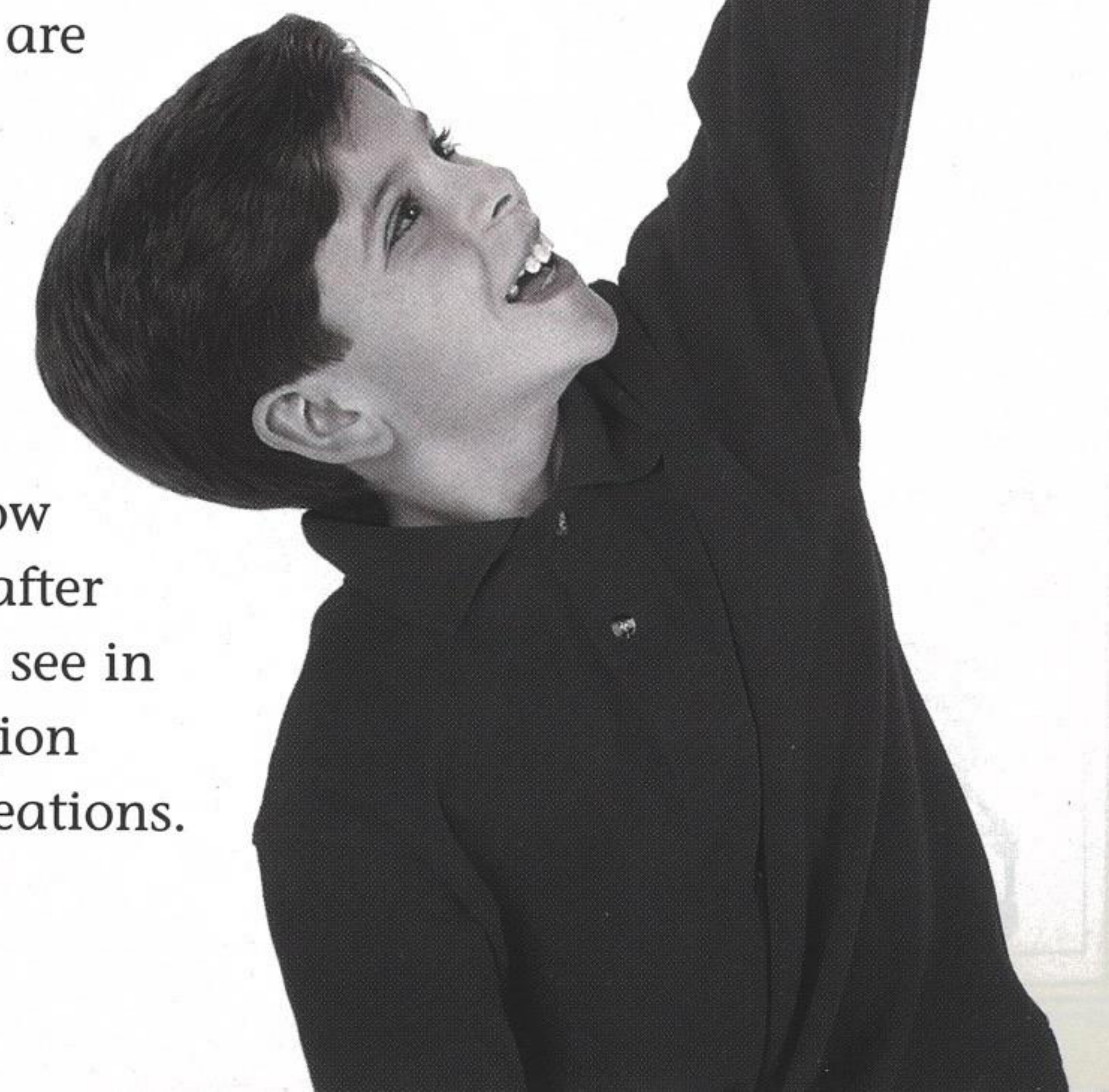


It's all in your head... Let it out!

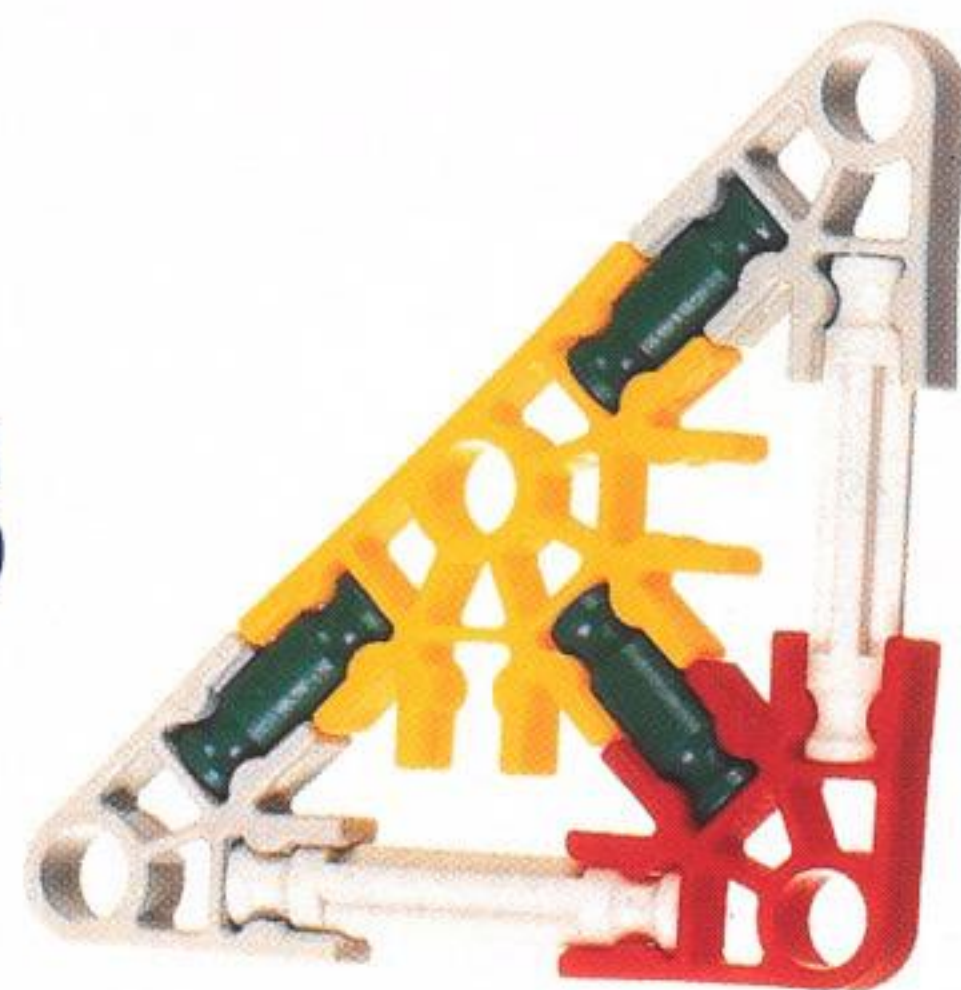
In this Book of Big Ideas, you'll find lots to discover. Some of the ideas have been created by the builders and designers who work at K'NEX. And some have been made by people like you – people who like to design their own models and share them with other builders.

You'll find all kinds of ideas here. There are instructions for models from simple to WOW! And there are lots of projects where you'll just see pictures. They'll inspire you to make your own models to illustrate your own ideas.

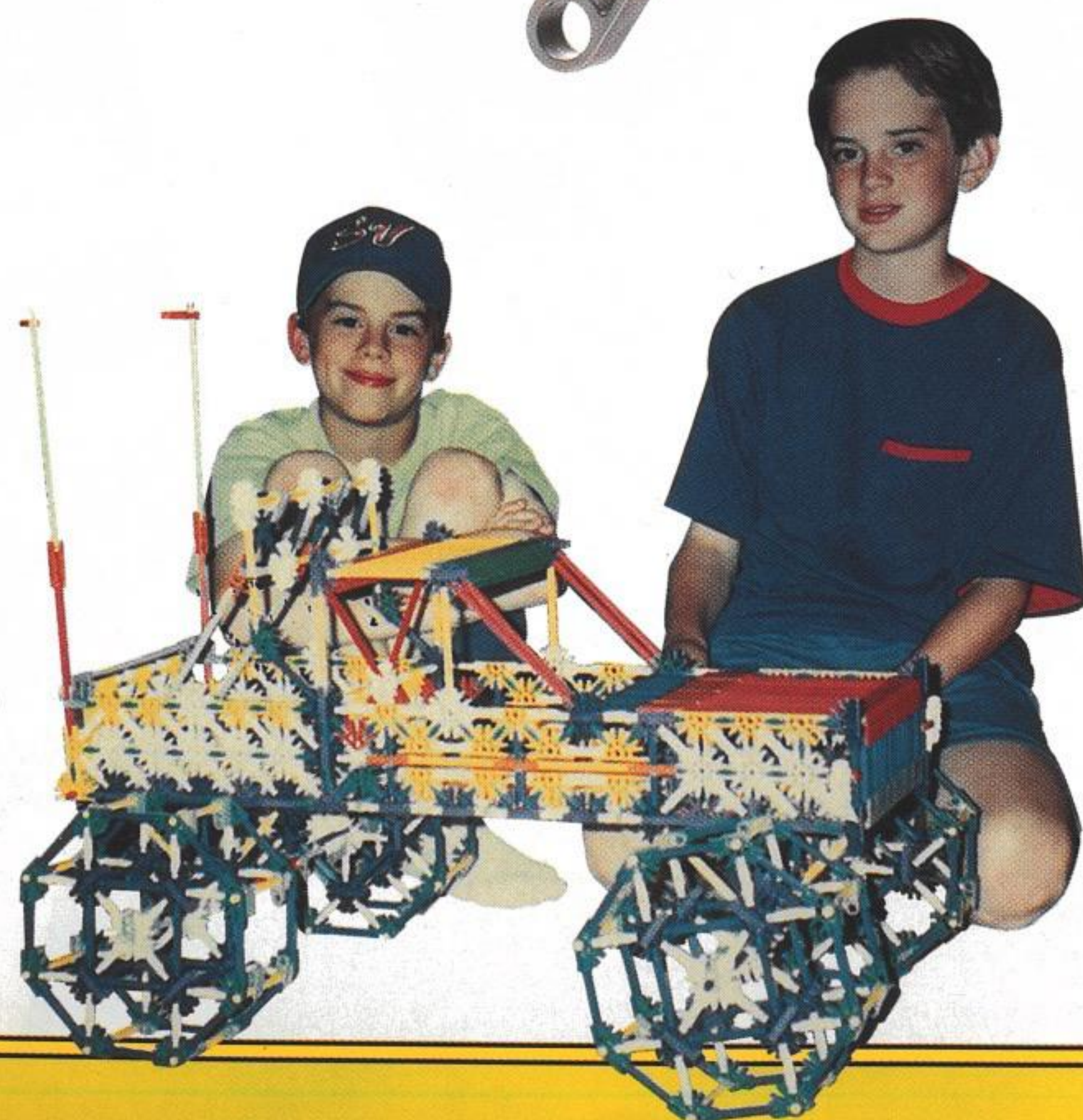
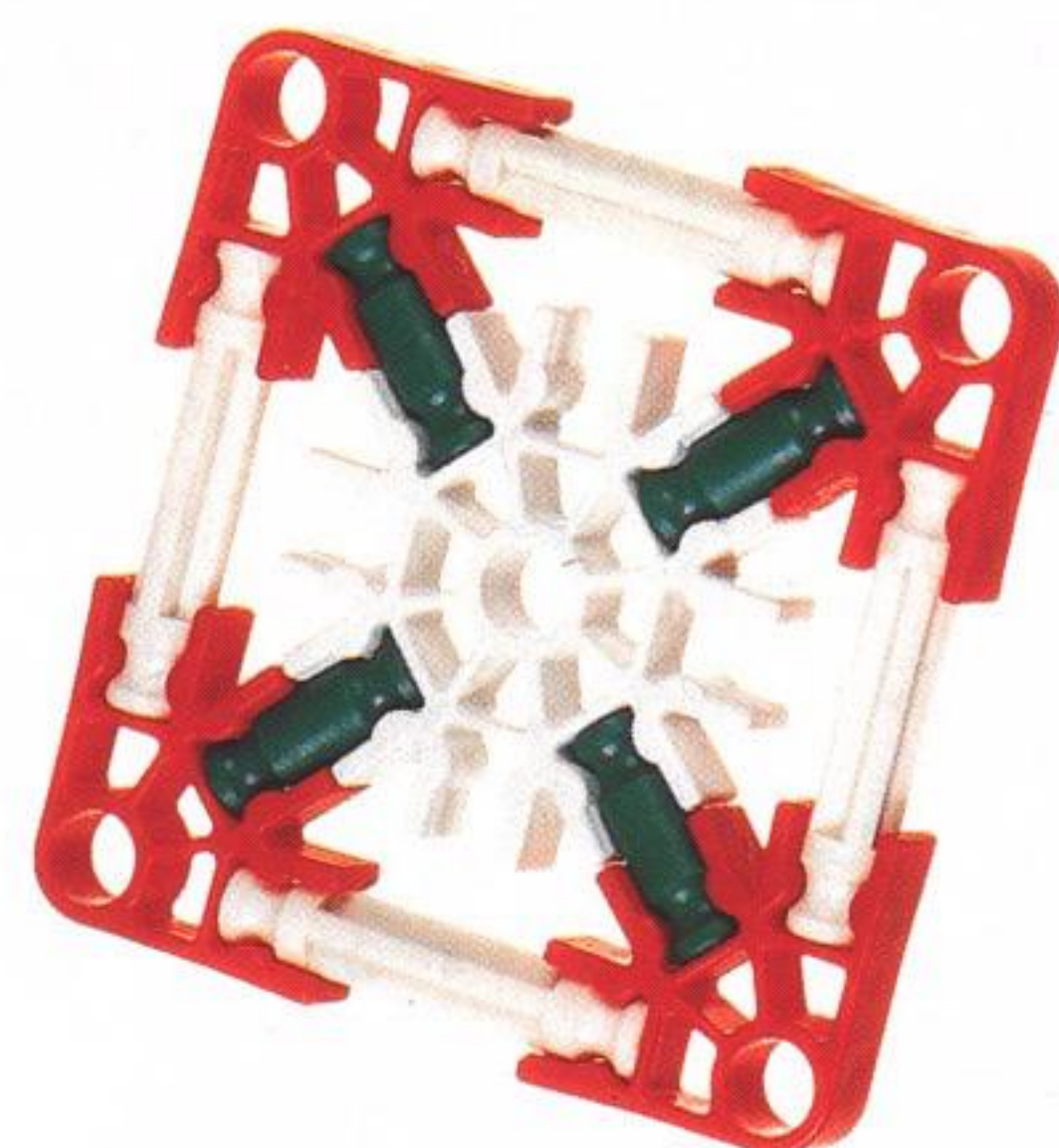
After all, this is a book of ideas...we know K'NEX builders are just full of them. So after you've finished building everything you see in the Book of Big Ideas, let your imagination soar and build your own very special creations.



Key Chains



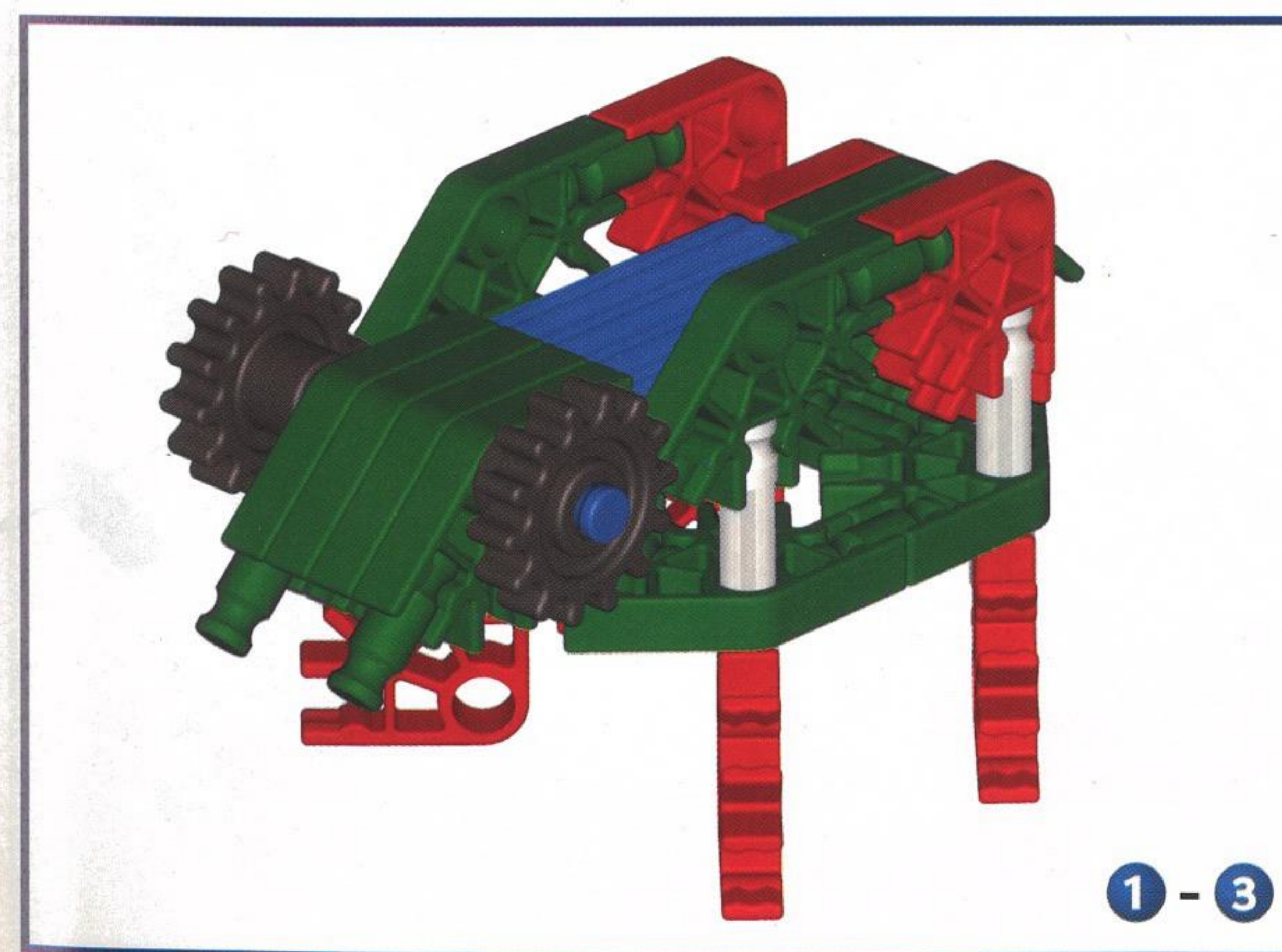
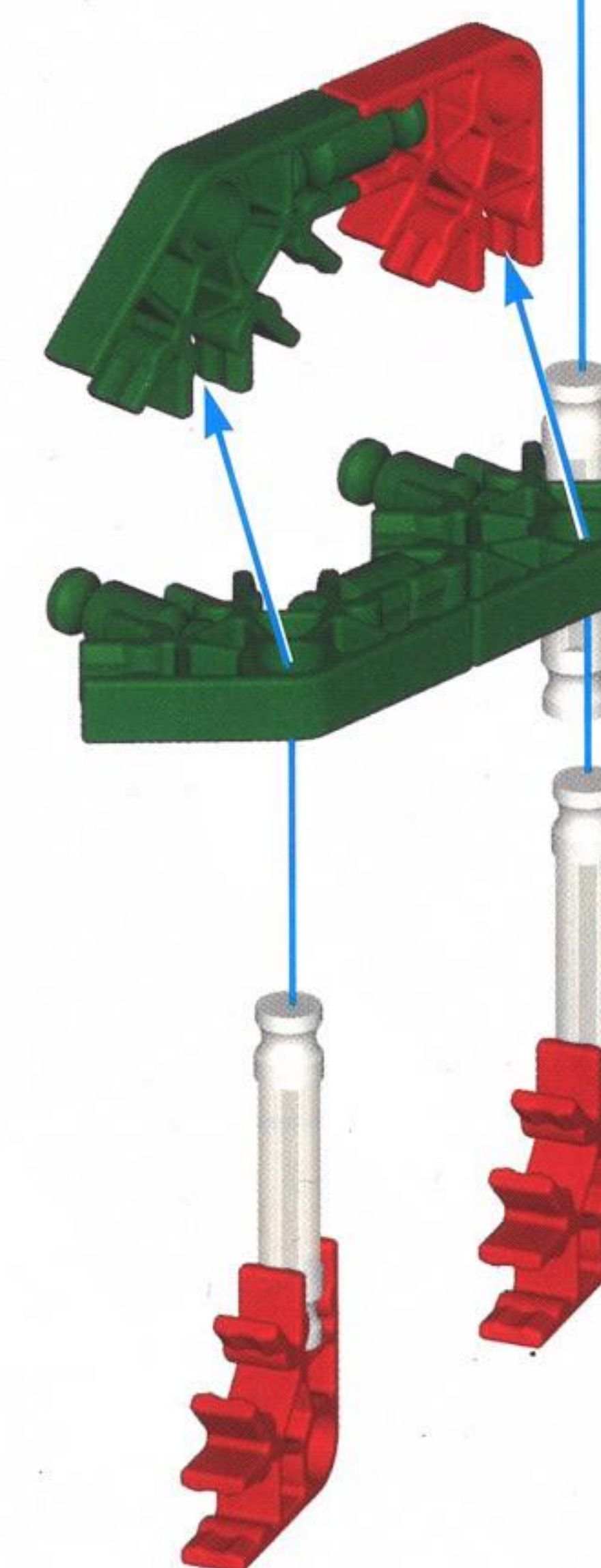
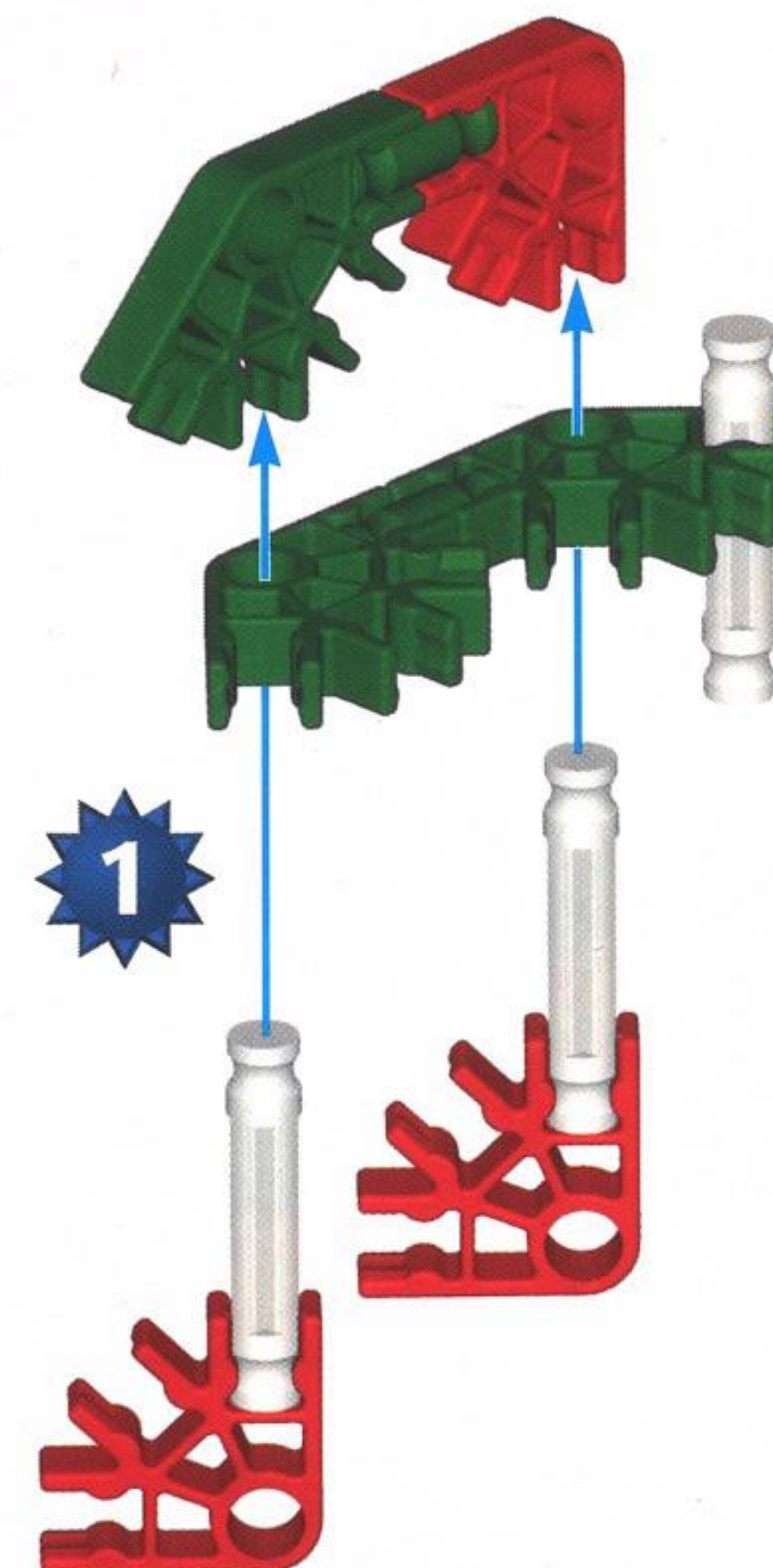
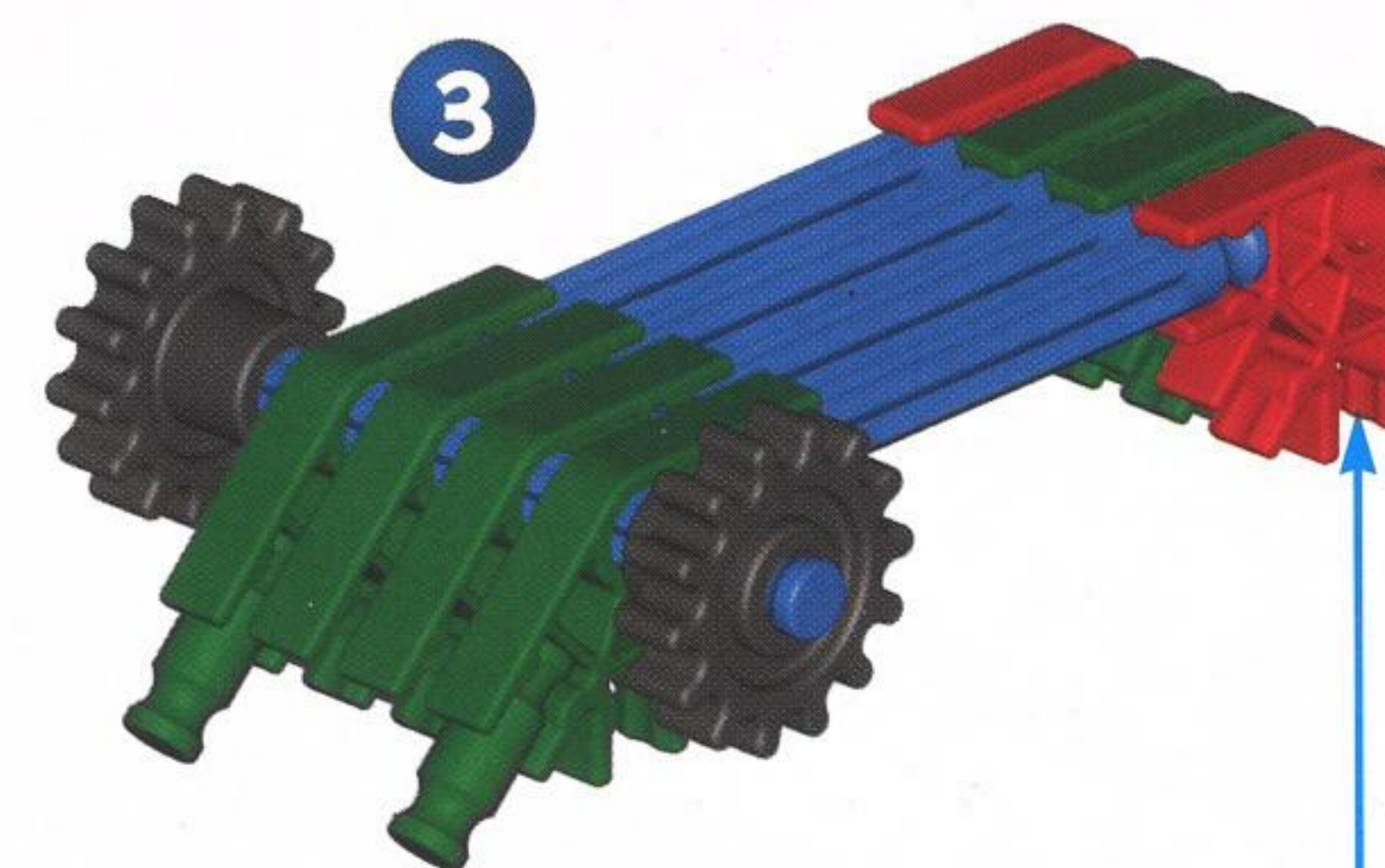
Everyone needs a key chain! Try making one from K'NEX. Craft and hardware stores have the rings or chains to hold your keys. These Key Chains make great gifts too!



Logan Ames, age 10 and Jared Ames, age 13, Aloha, OR
"...10-4 good buddy. We're cruising down the highway toward the Monster Truck Pull at the Old Arena." The highlight this year – a K'NEX Big Foot truck built by Jared and Logan Ames.

Sniffer

What's a Sniffer? Looks like a creature with a funny nose. Can you design your own kind of Sniffer?

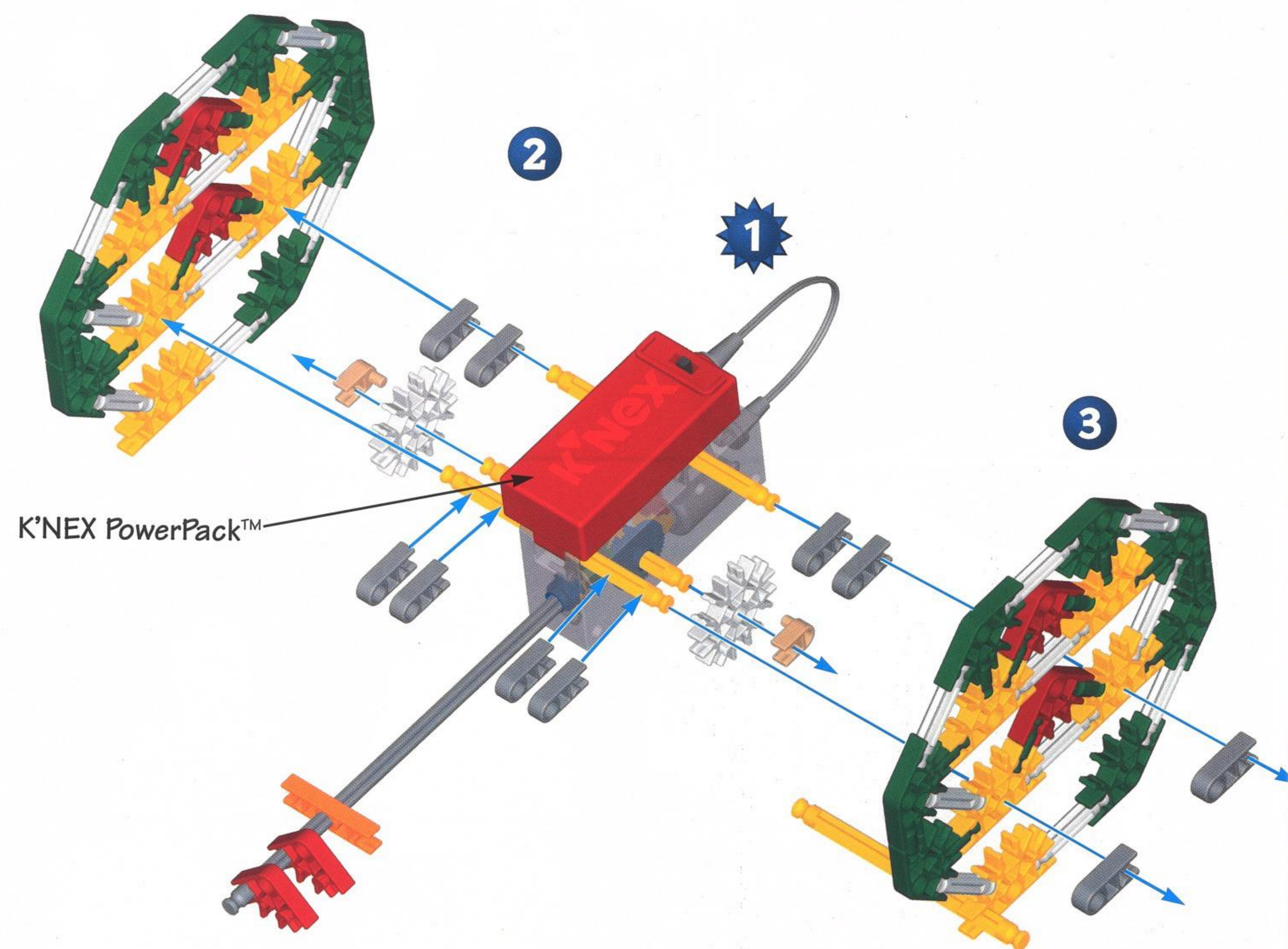
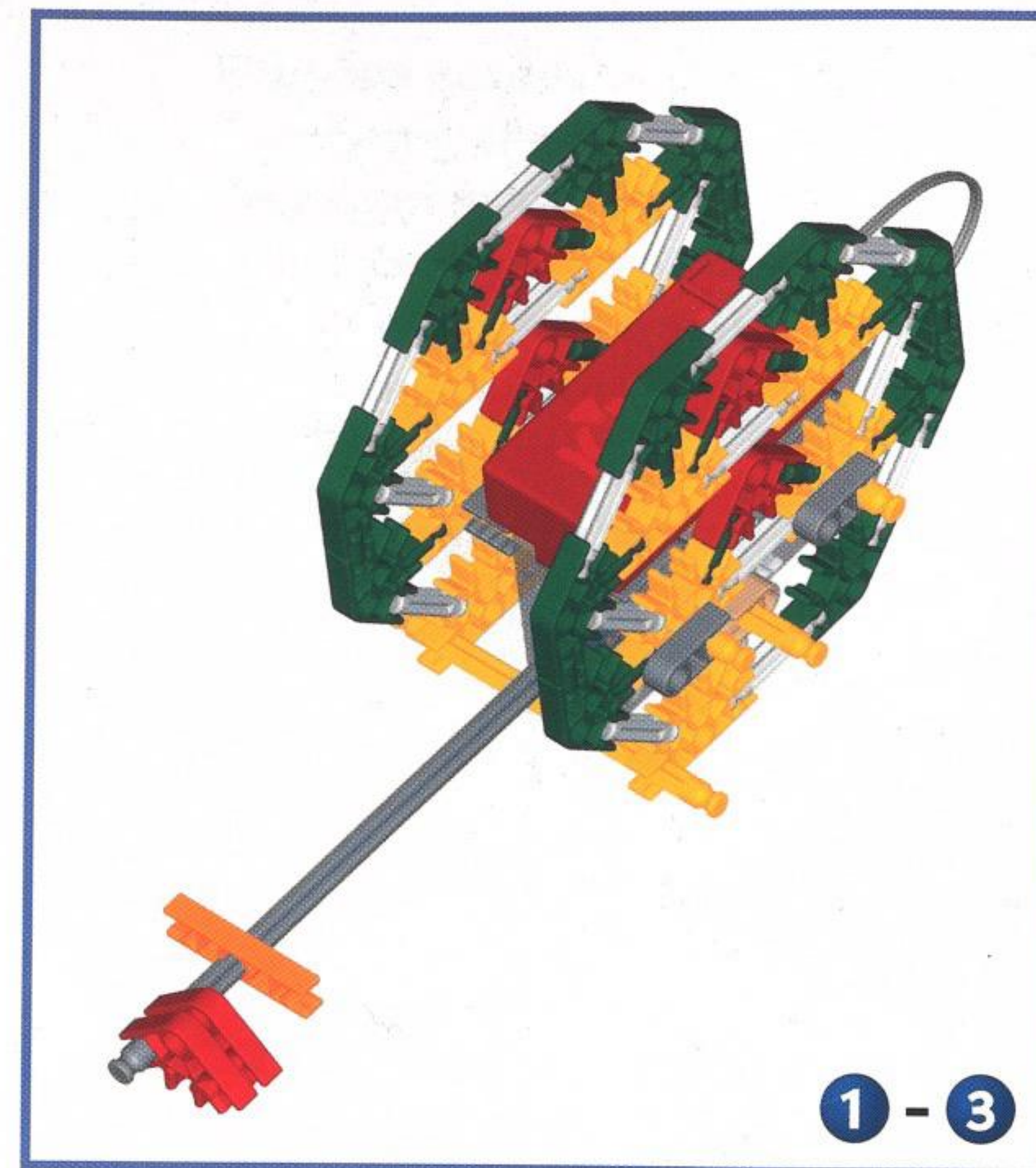


You will need these parts

12		8	
8		6	
2		5	

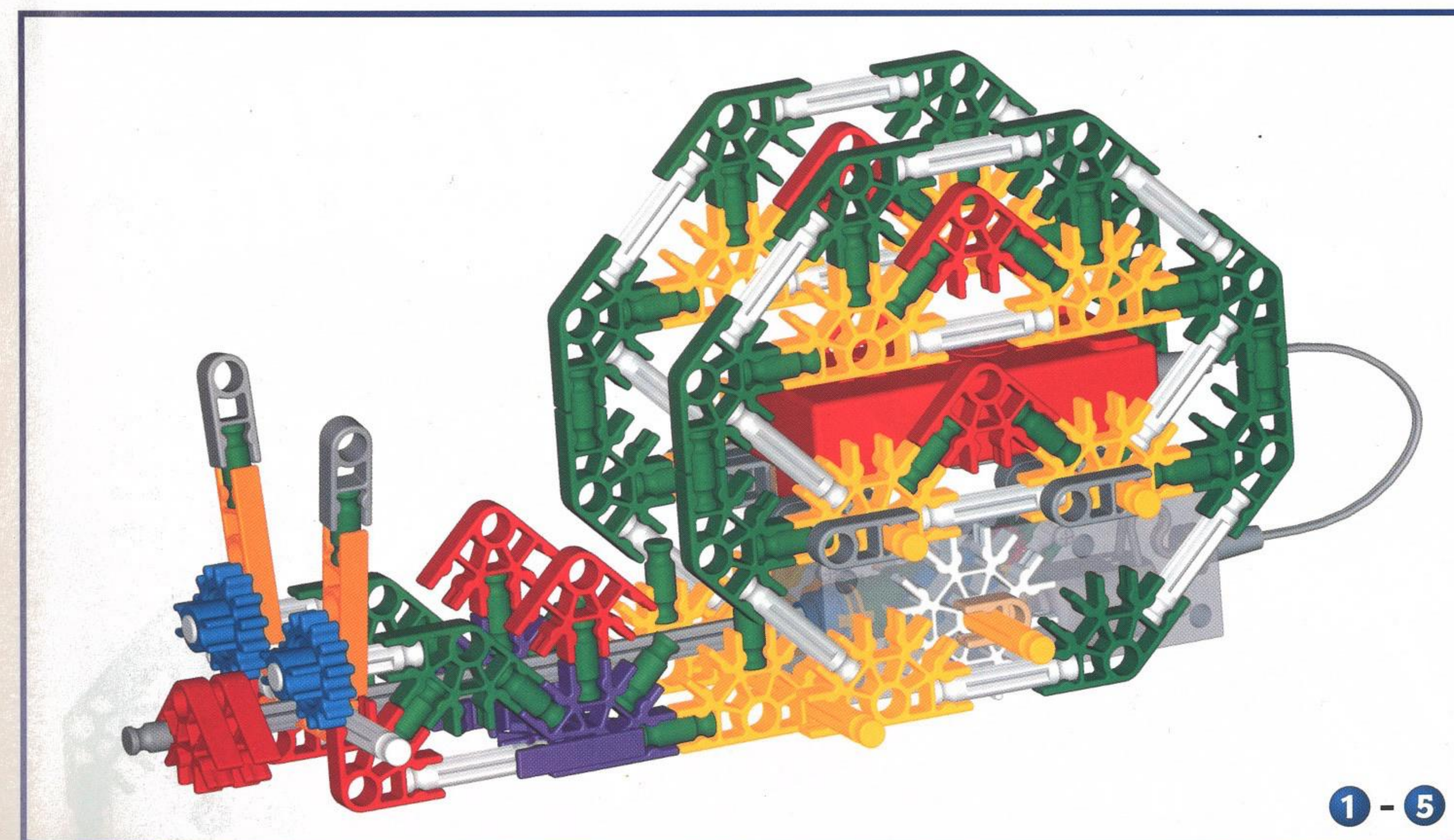
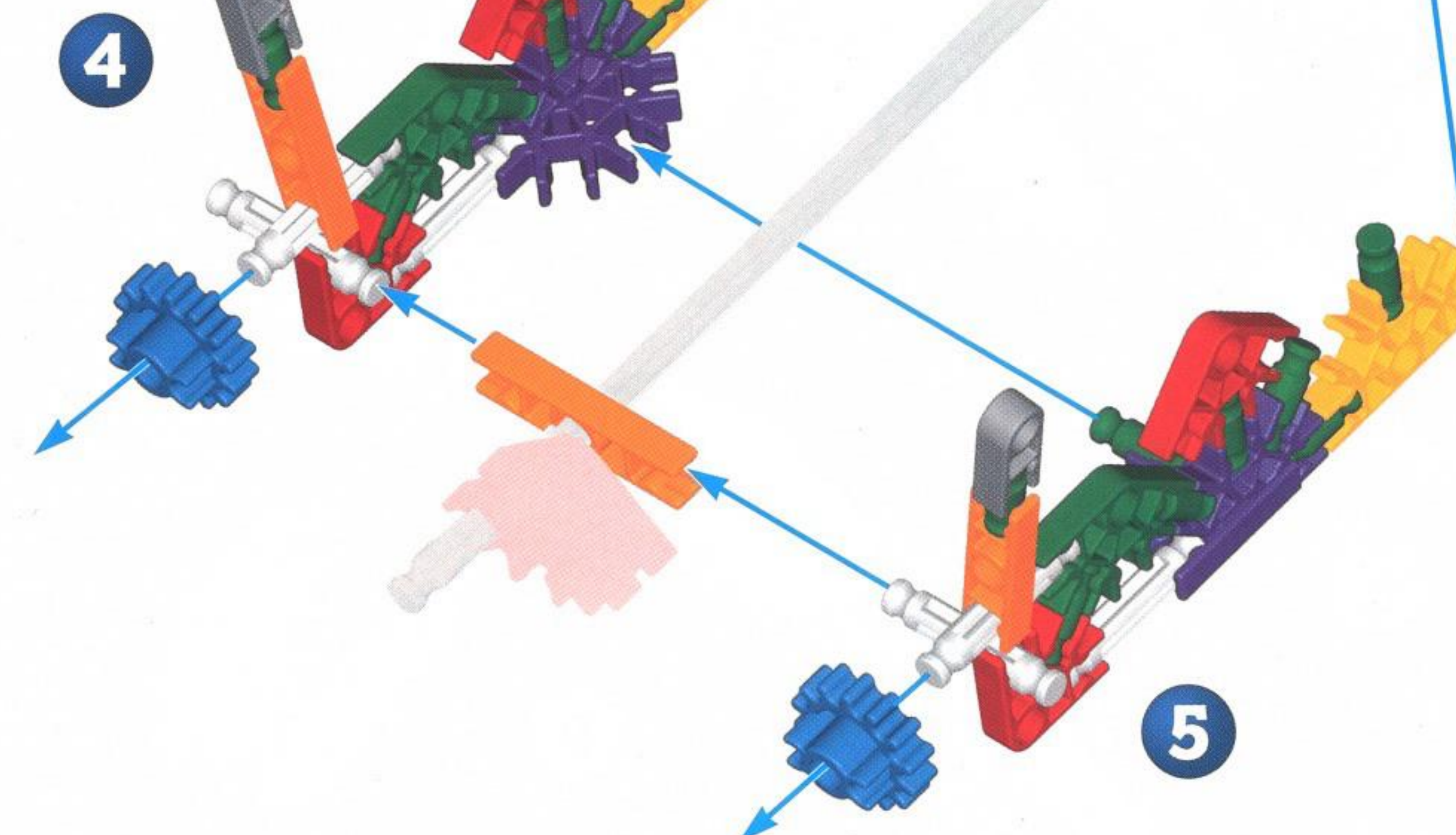
Speedy the Snail

Speedy's a strange name for a Snail. But this Speedy's special. Just add a K'NEX PowerPack and he'll scoot along and win the Snail Marathon!



You will need these parts

2	4	39	1
12	12	26	
3	2	4	
10	2	1	
16			

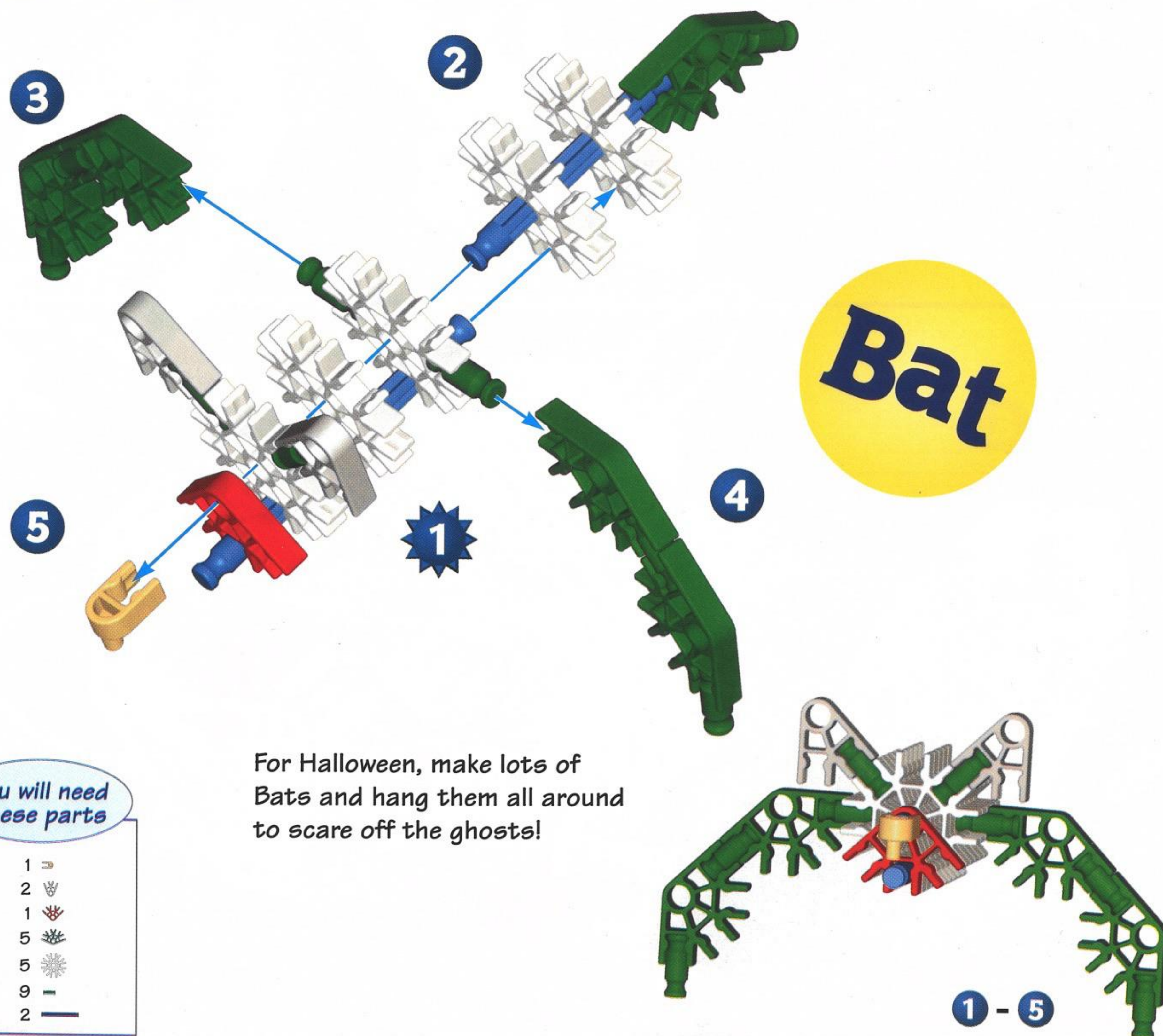
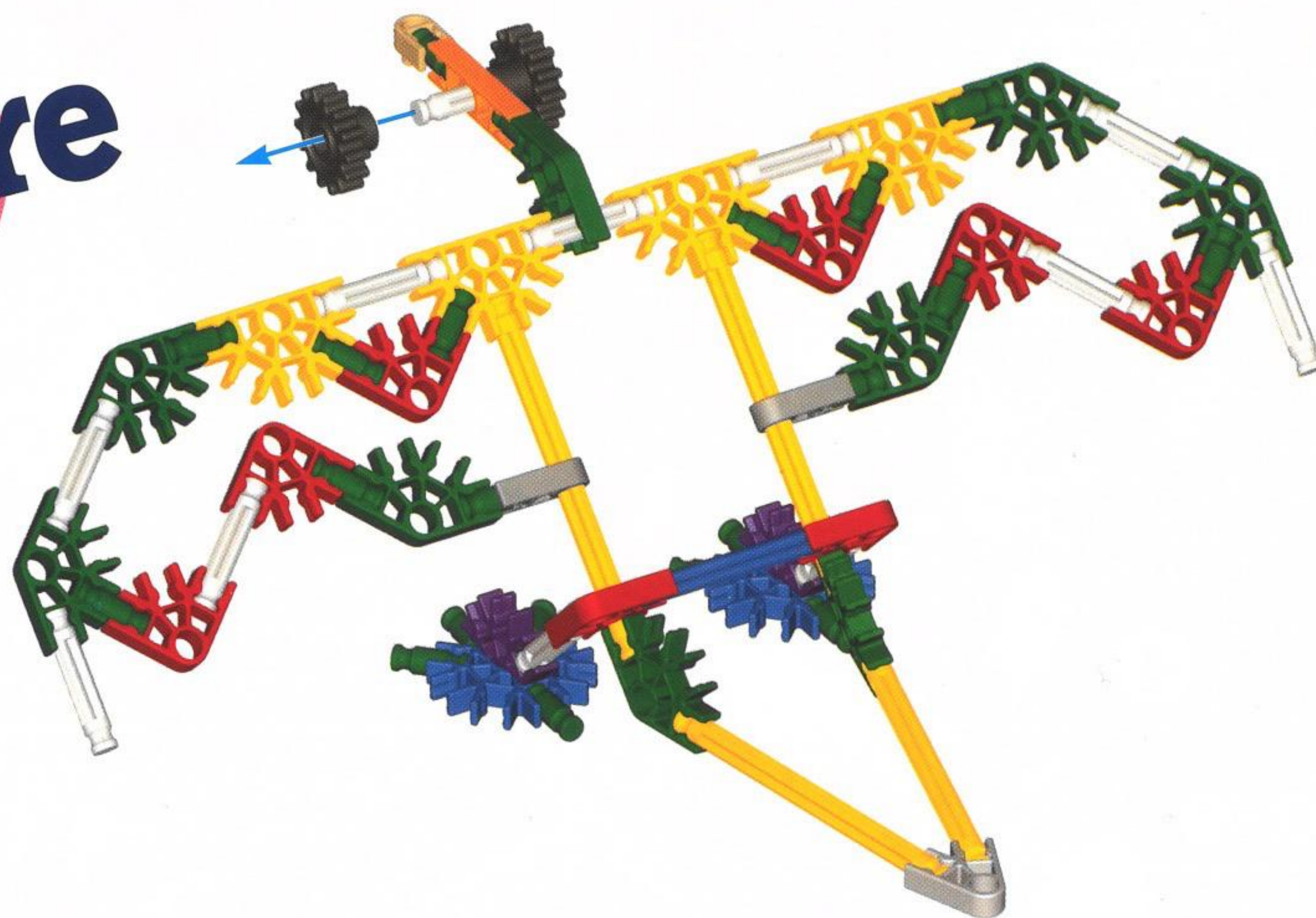


Vulture

Yikes! A winged Vulture!
It's a good thing it
doesn't really fly!

You will need
these parts

1	9	22
2	2	12
1	4	1
1	2	4
8	2	

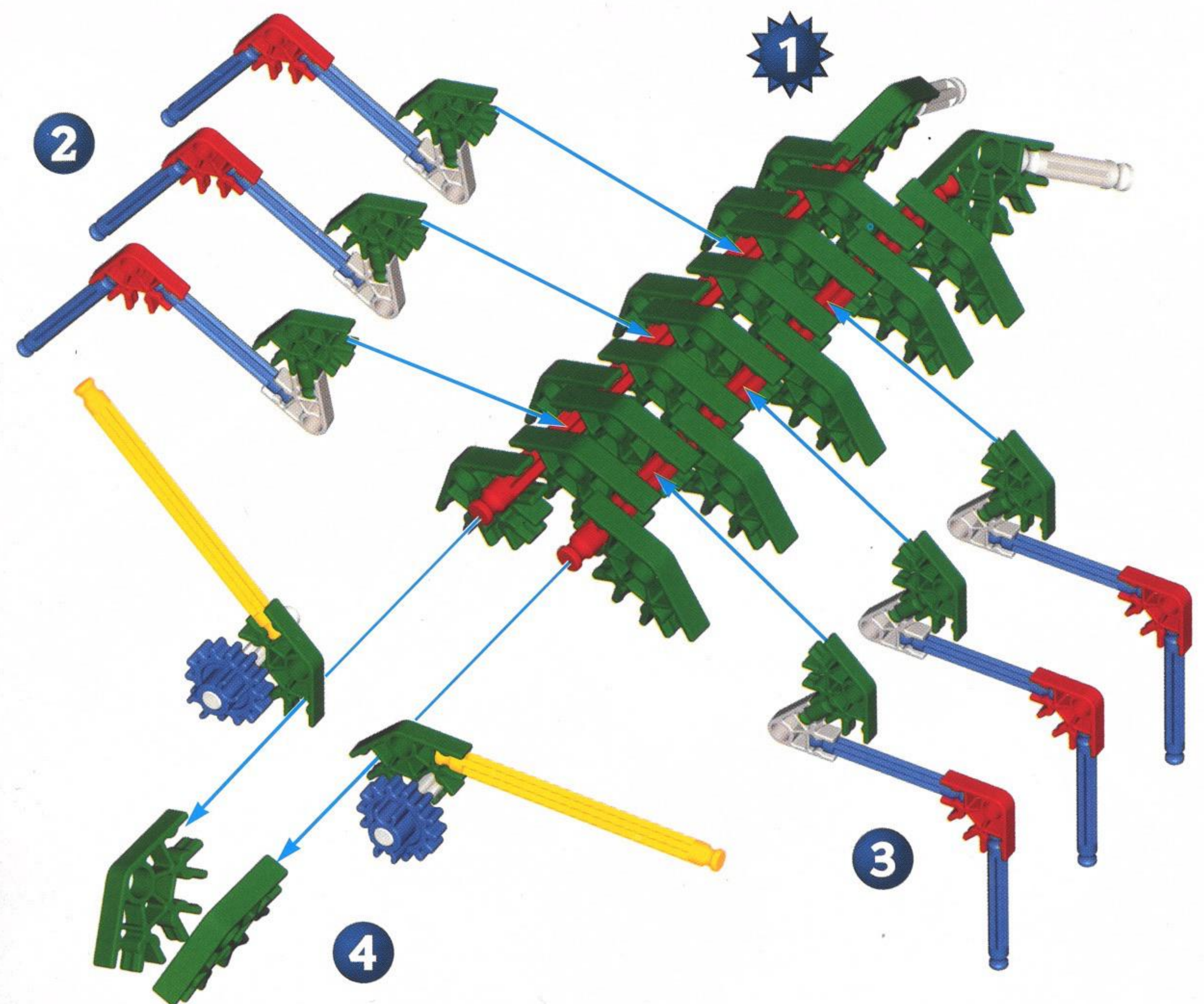


Bat

You will need
these parts

1	2
2	1
5	5
9	2

For Halloween, make lots of
Bats and hang them all around
to scare off the ghosts!

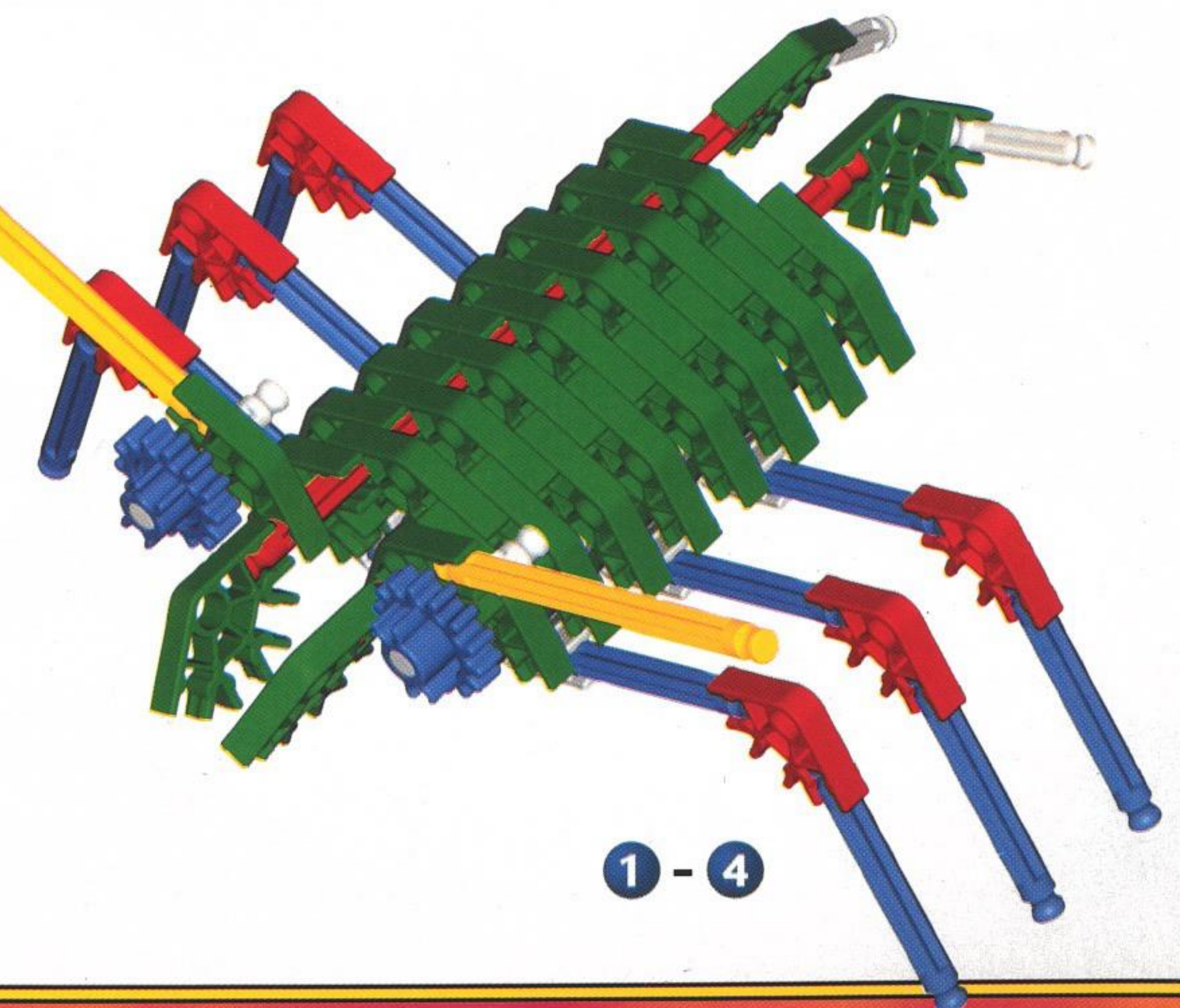


Thingamabob

Here's an interesting Thingamabob...
bet you've got lots of ideas for other
strange creatures. Why not build a
whole Thingamabob family?

You will need
these parts

29	6
6	4
6	12
2	2
	2



Flowers

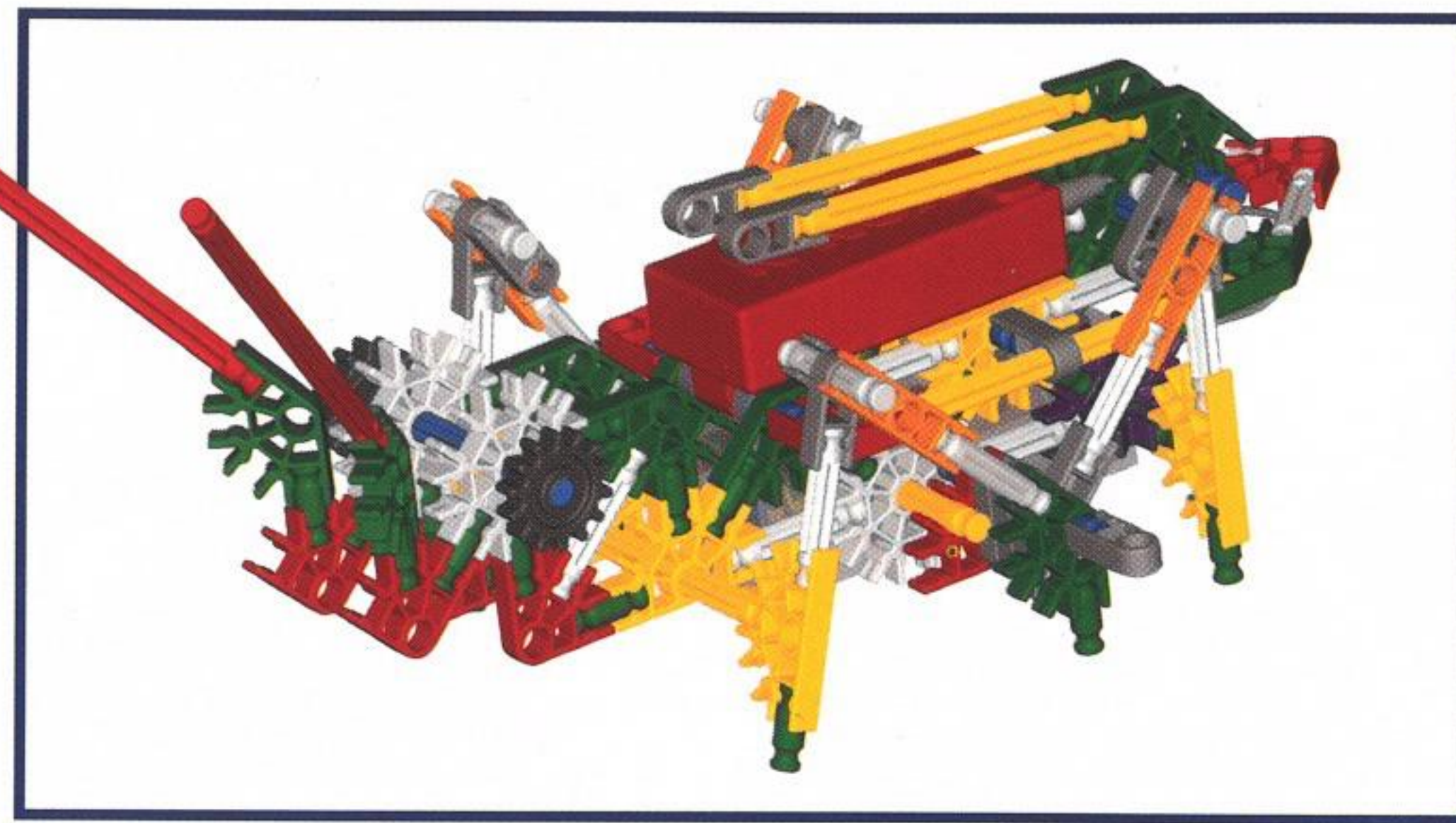
Bug

Careful – don't let the bug eat your flowers!

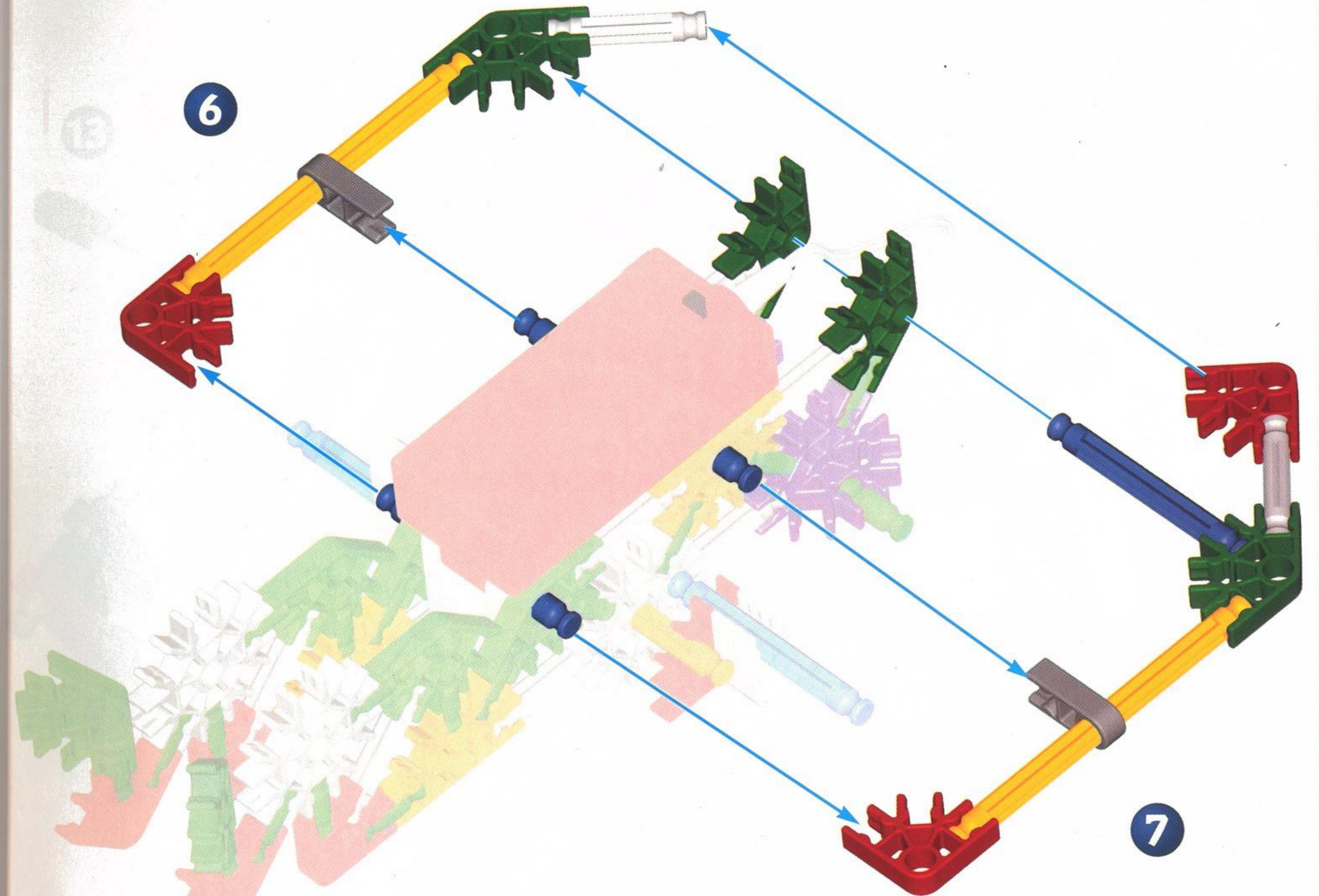
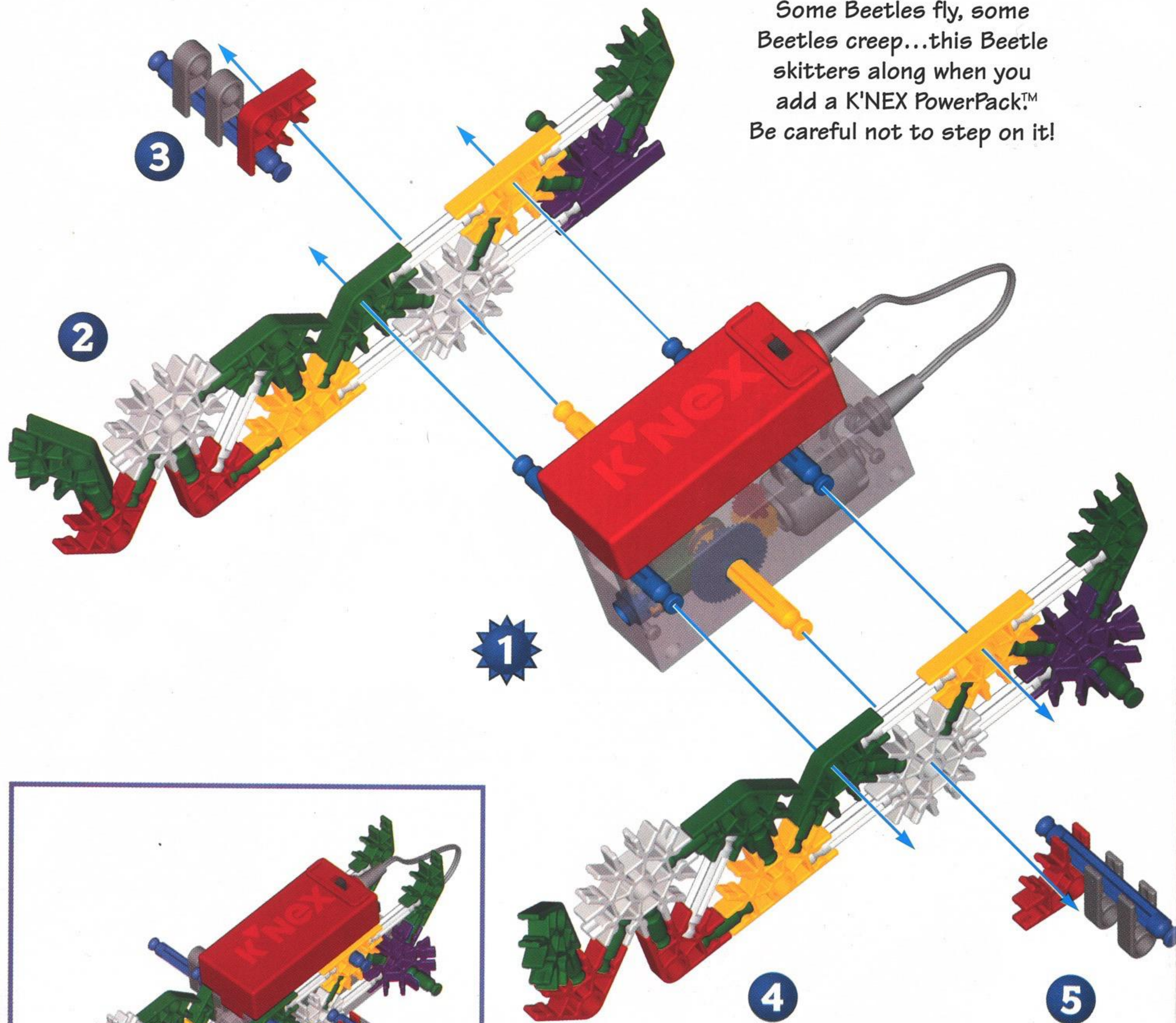
Daisies and sunflowers and roses...how many different flowers can you come up with ideas for?



Walking Beetle

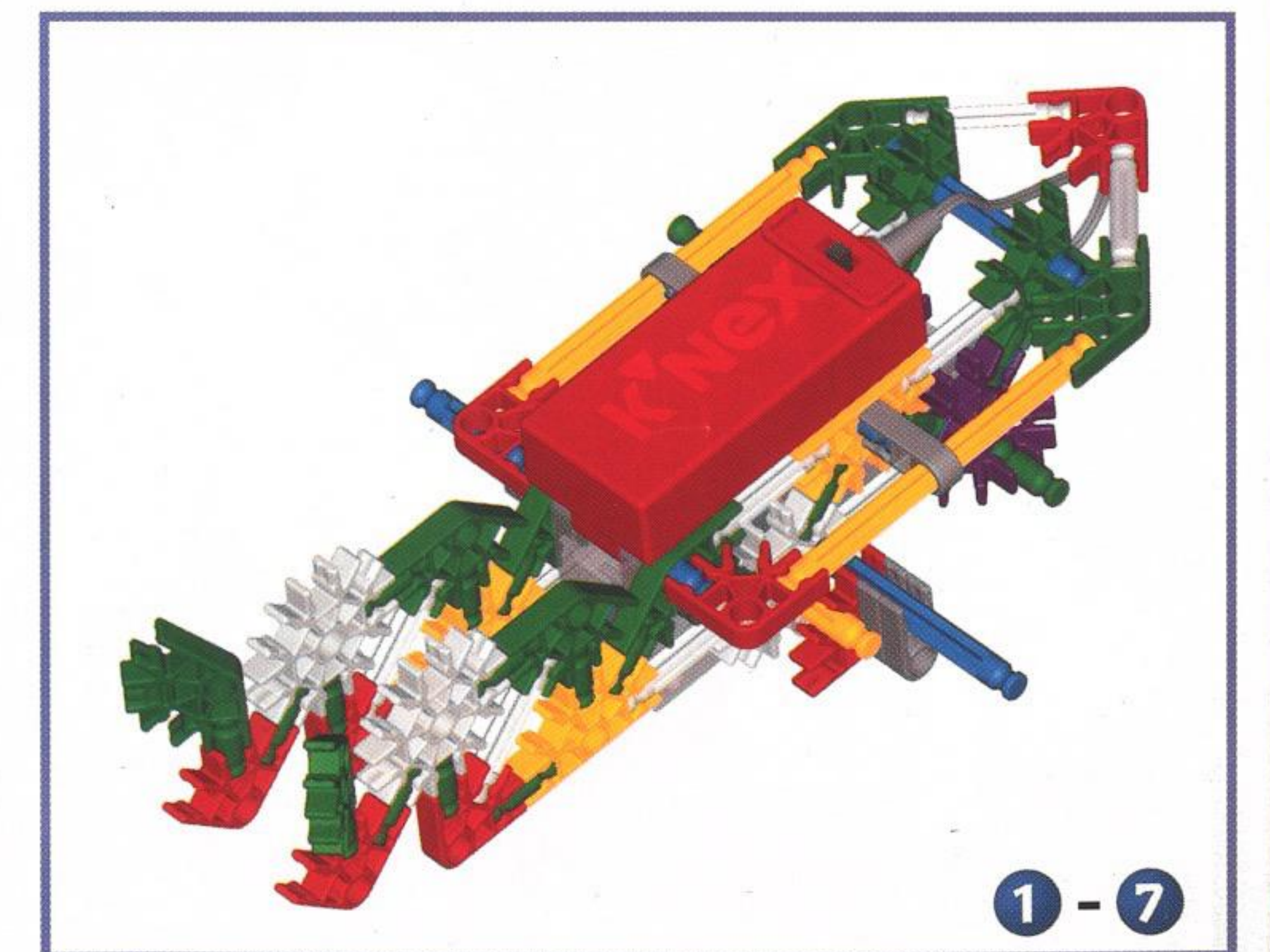


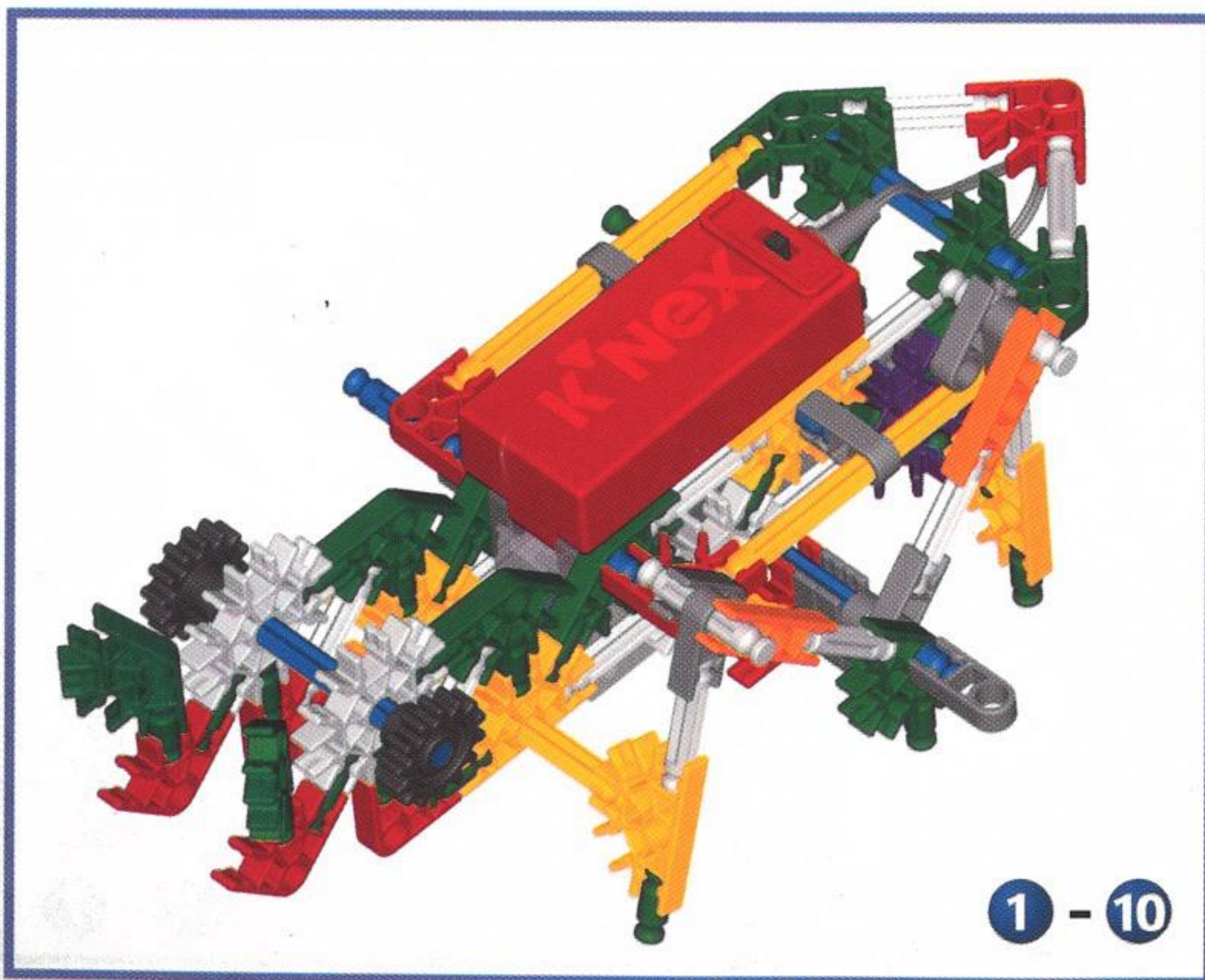
Some Beetles fly, some Beetles creep...this Beetle skitters along when you add a K'NEX PowerPack™. Be careful not to step on it!



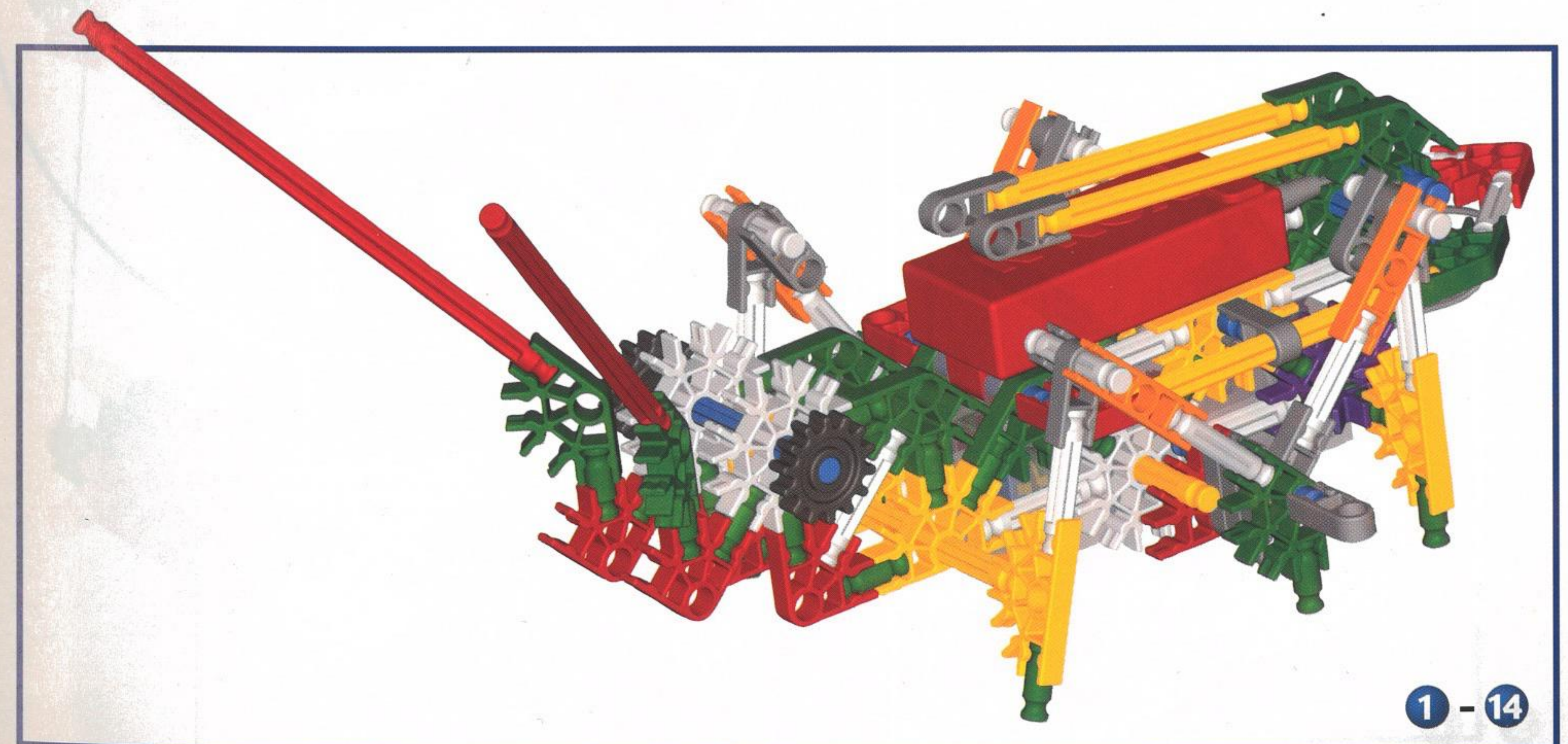
You will need these parts

22	4	30	1
4	8	24	
9	4	7	
16	2	6	
		2	





1 - 10



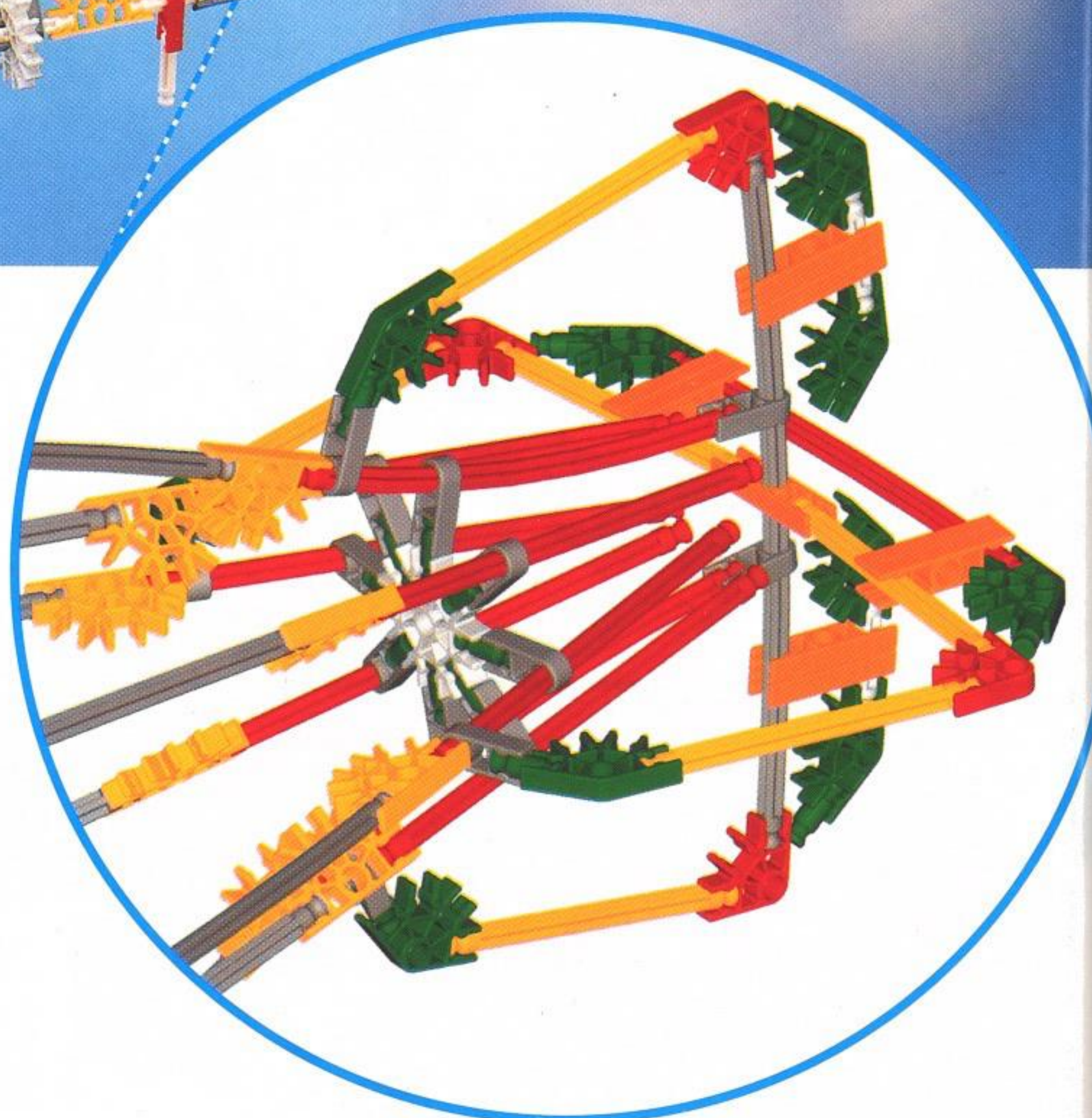
1 - 14

Blimp

Not a bird...not a plane...it's a Blimp! Can you design another lighter-than-air machine?



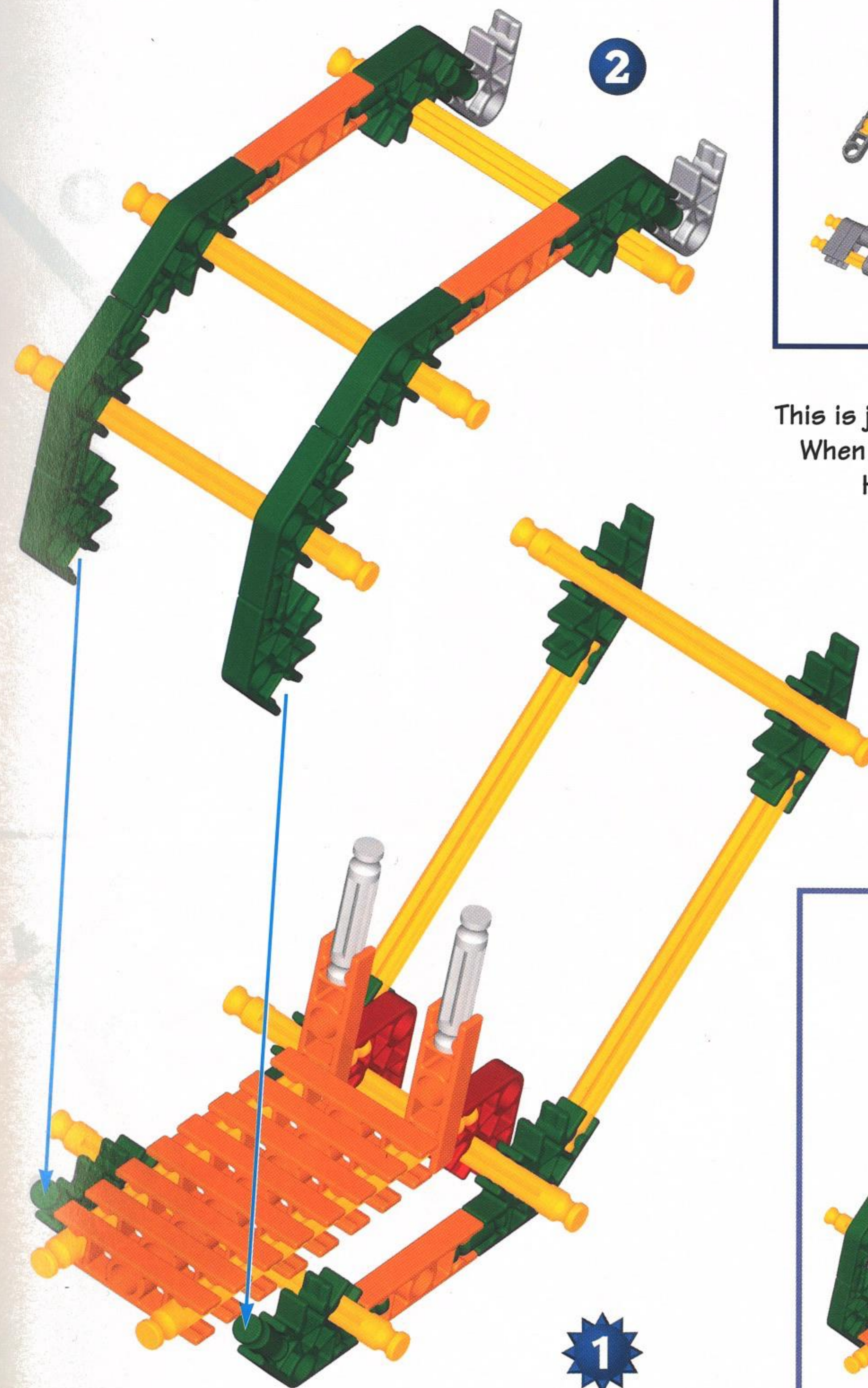
= 8



You will need these parts

21	36
15	10
8	22
10	17
34	17
6	

Helicopter

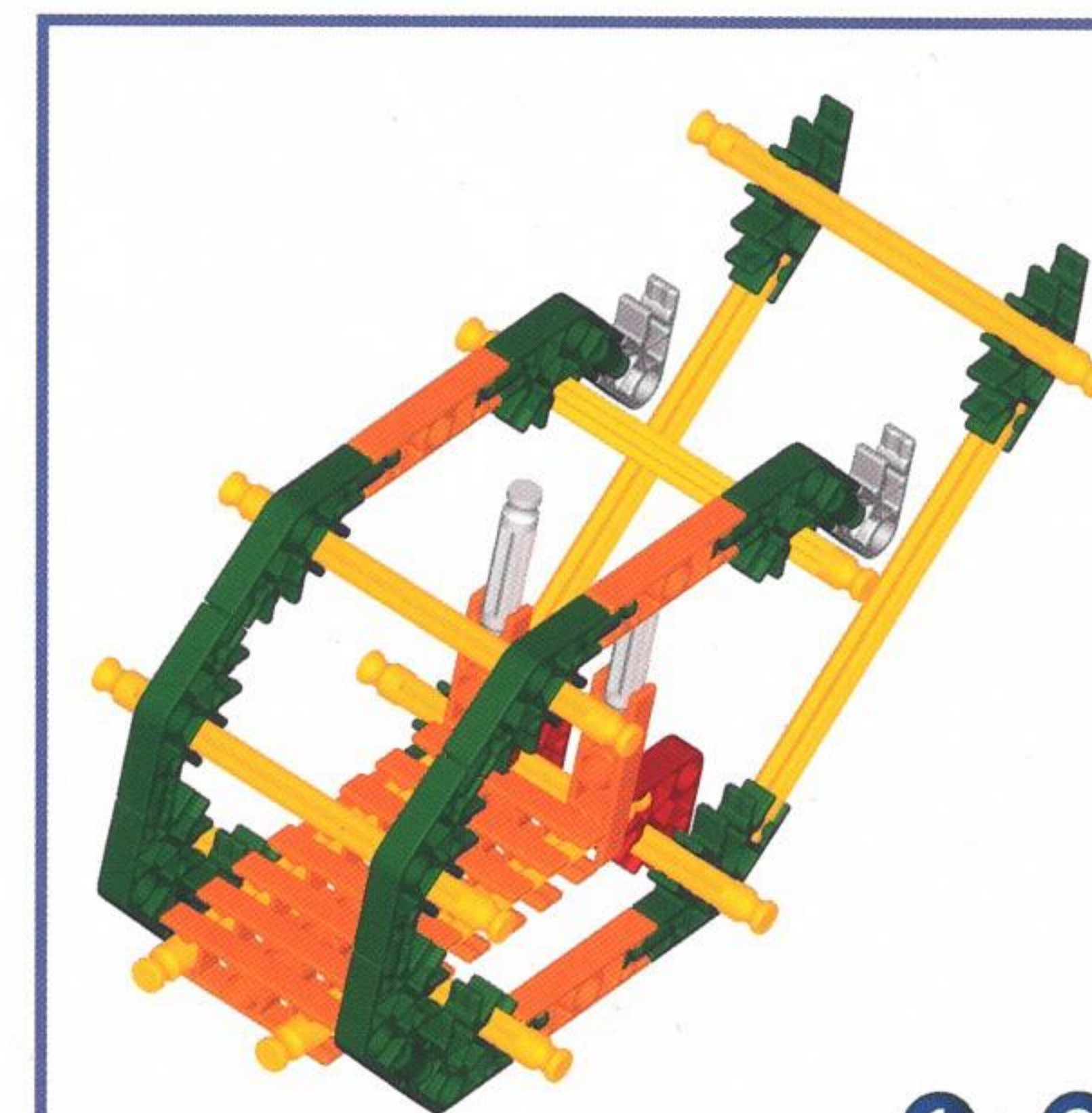


2

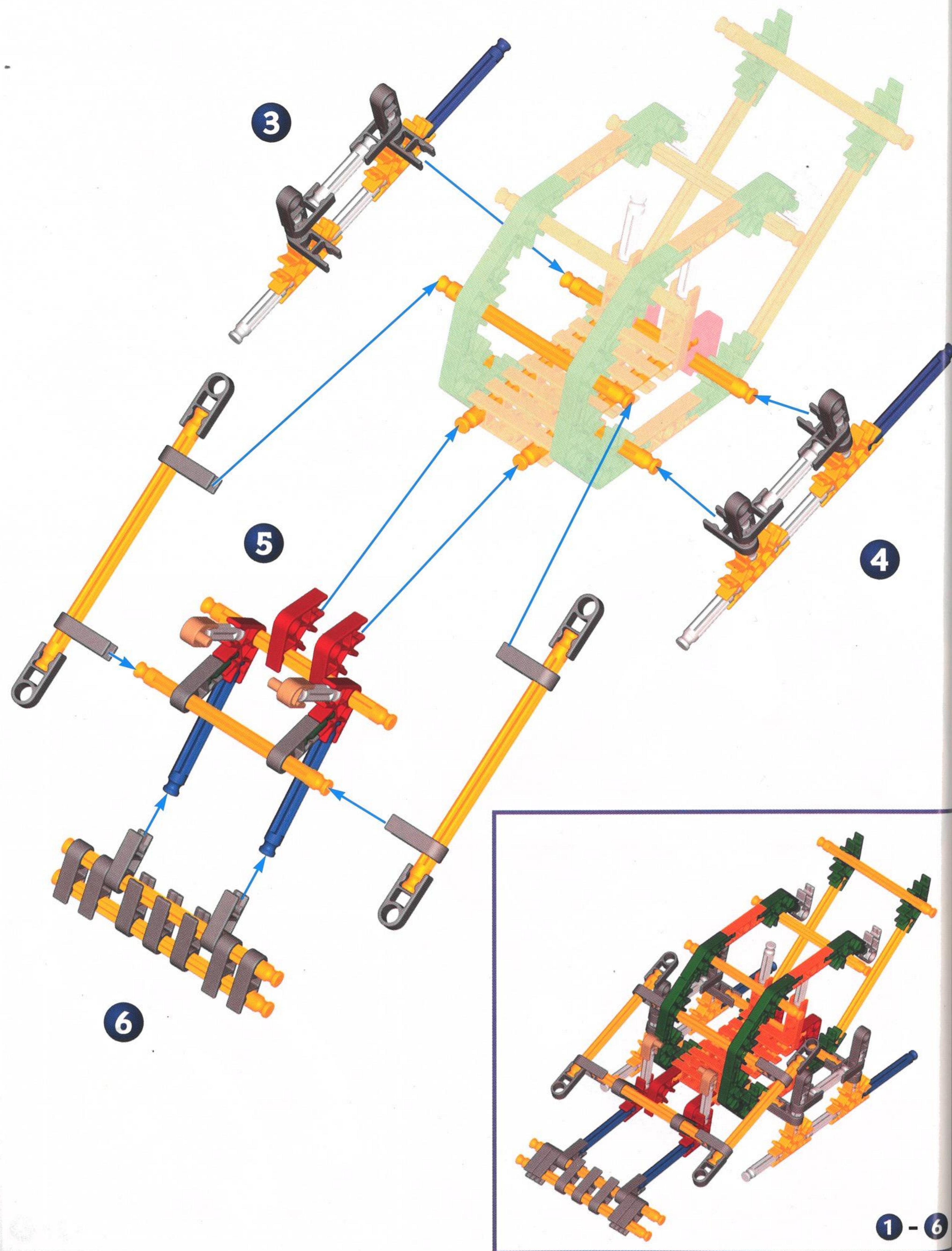
This is just one version of a K'NEX Helicopter. When you've finished building it, try some Helicopter designs of your own.

You will need these parts

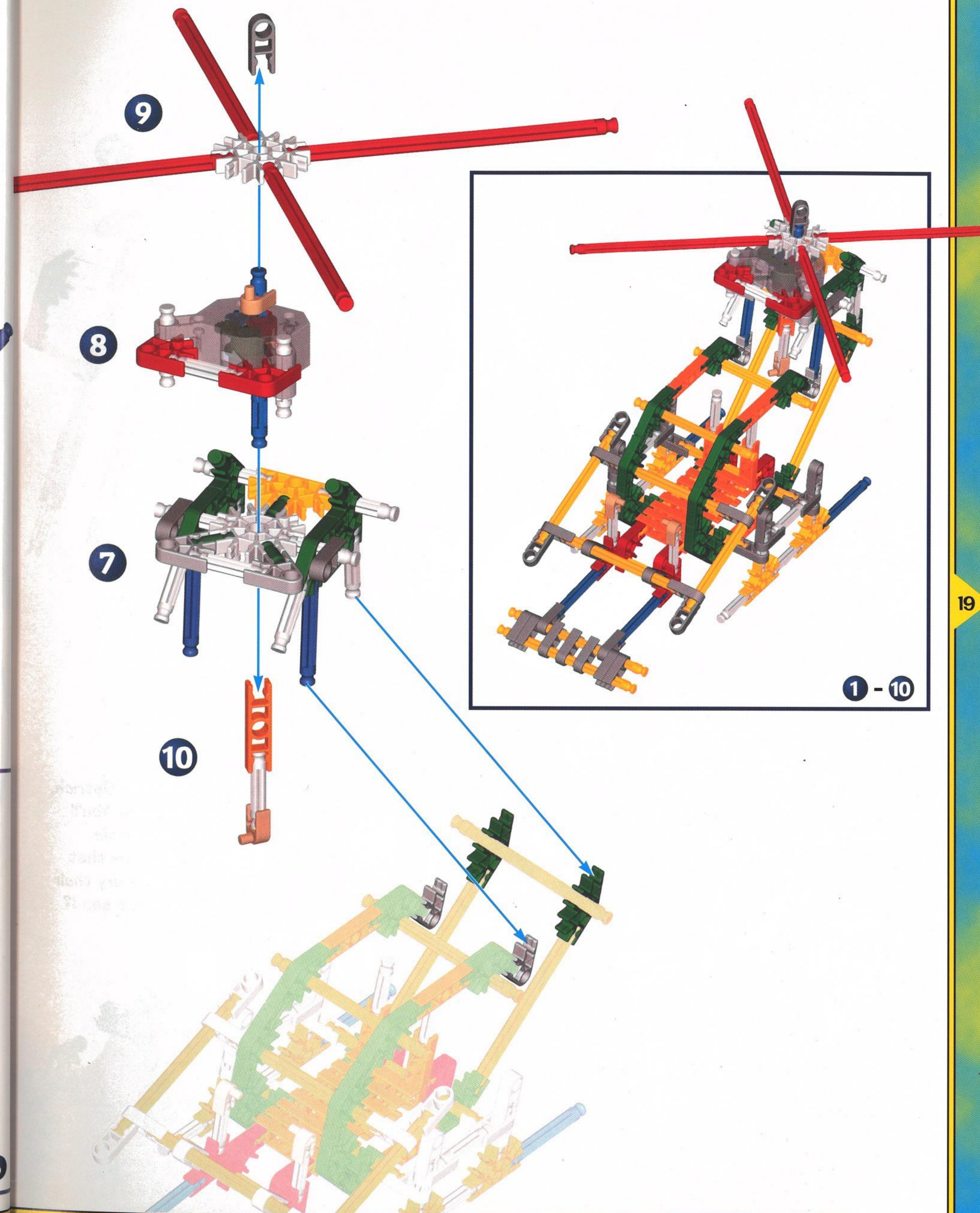
1	8	25
4	18	27
34	5	7
15	2	16
4		4



1 - 2



1 - 6

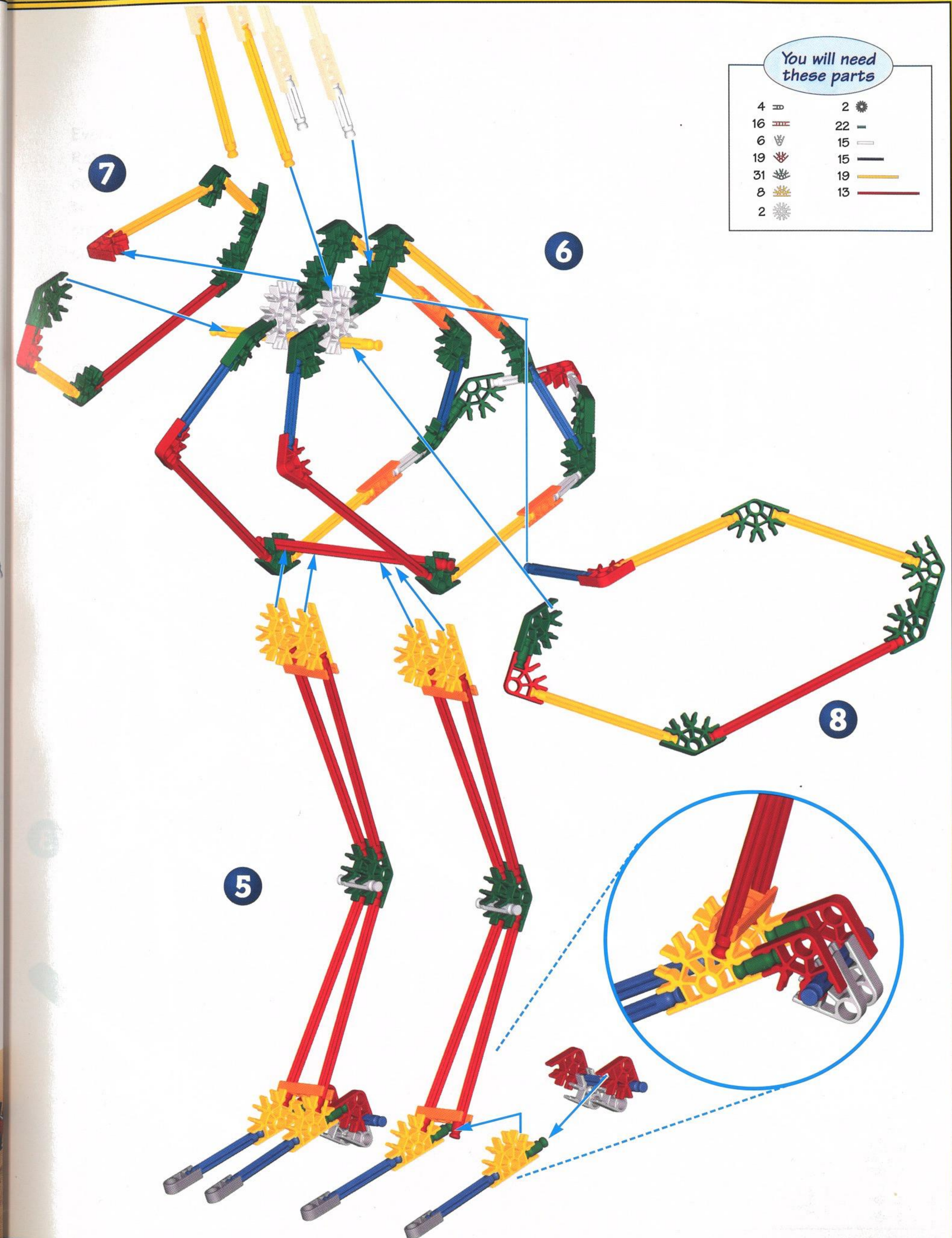


1 - 10



Ostrich

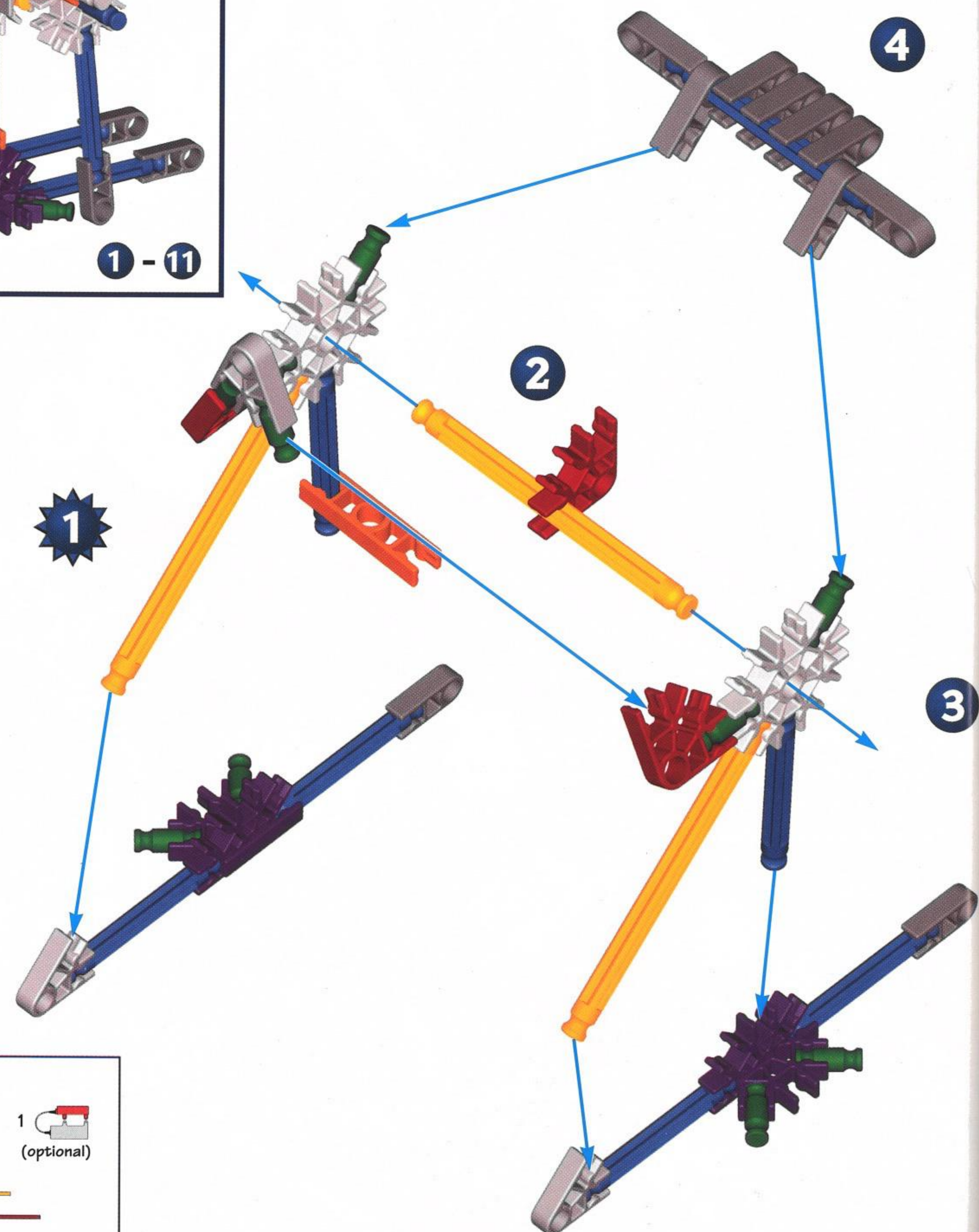
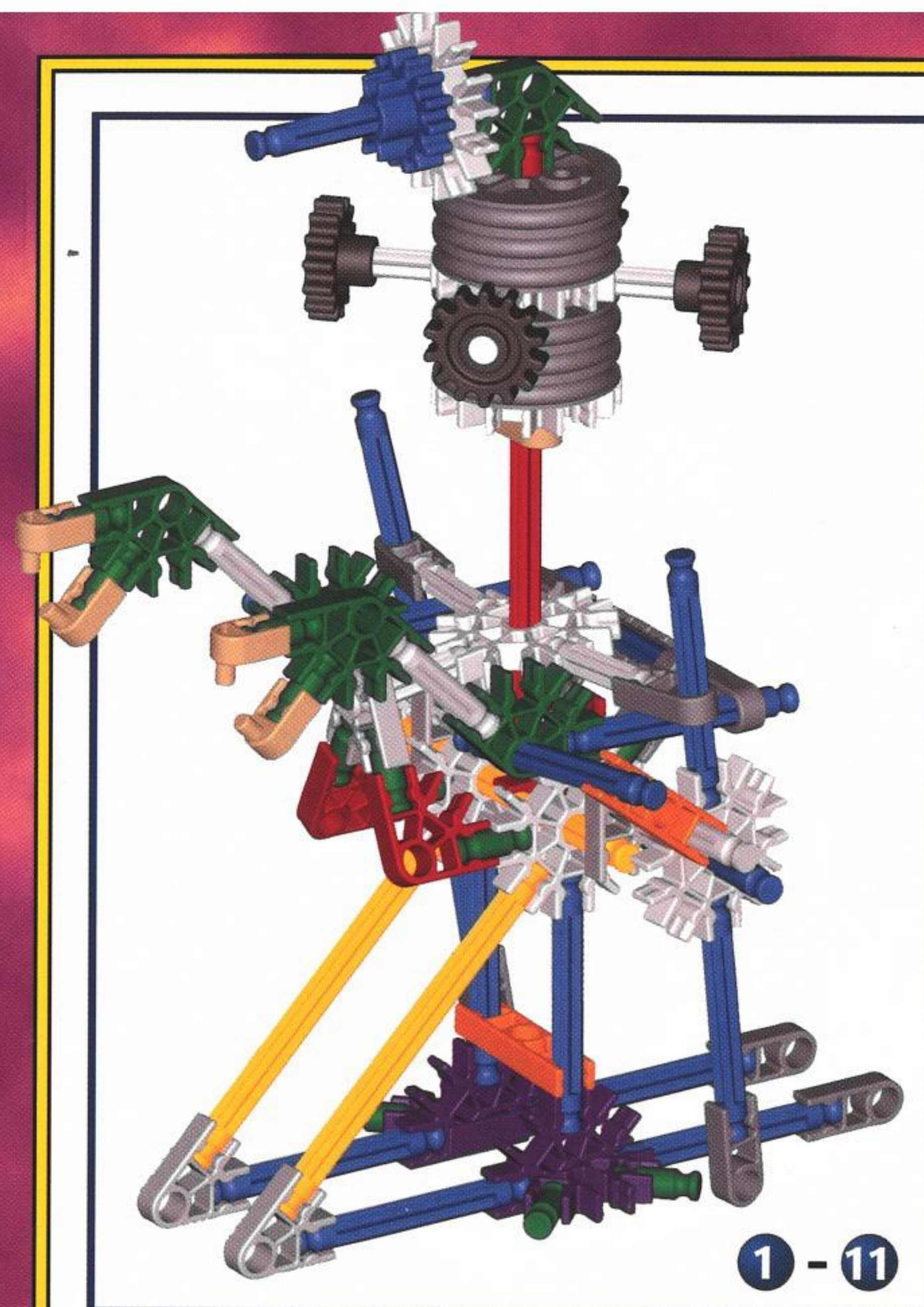
Here's how to make one Ostrich, but look at the pictures. You'll see how to make the whole Ostrich family. Is it true that Ostriches really bury their heads in the sand?



You will need these parts

4	2
16	22
6	15
19	15
31	19
8	13
2	

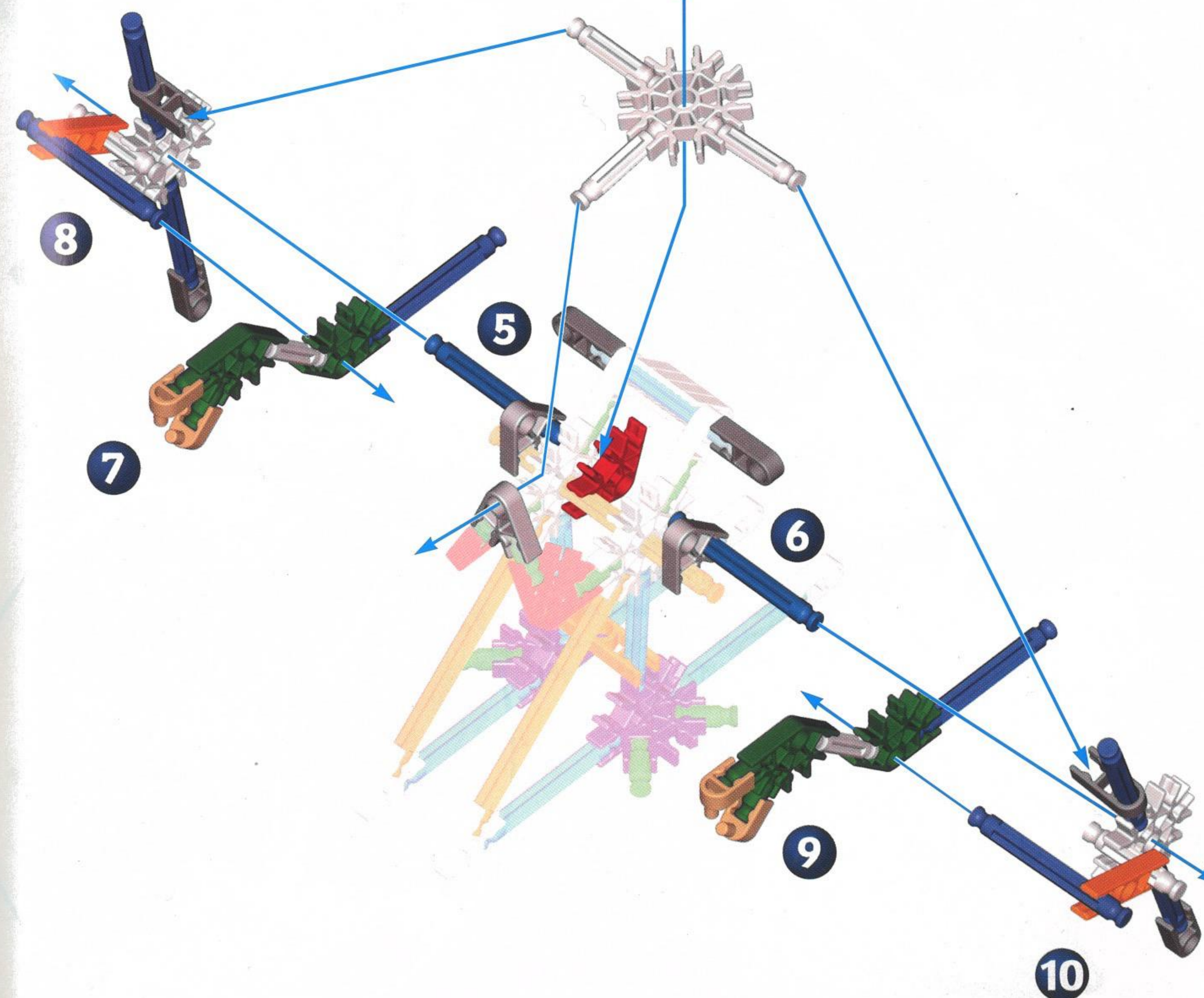
Robot

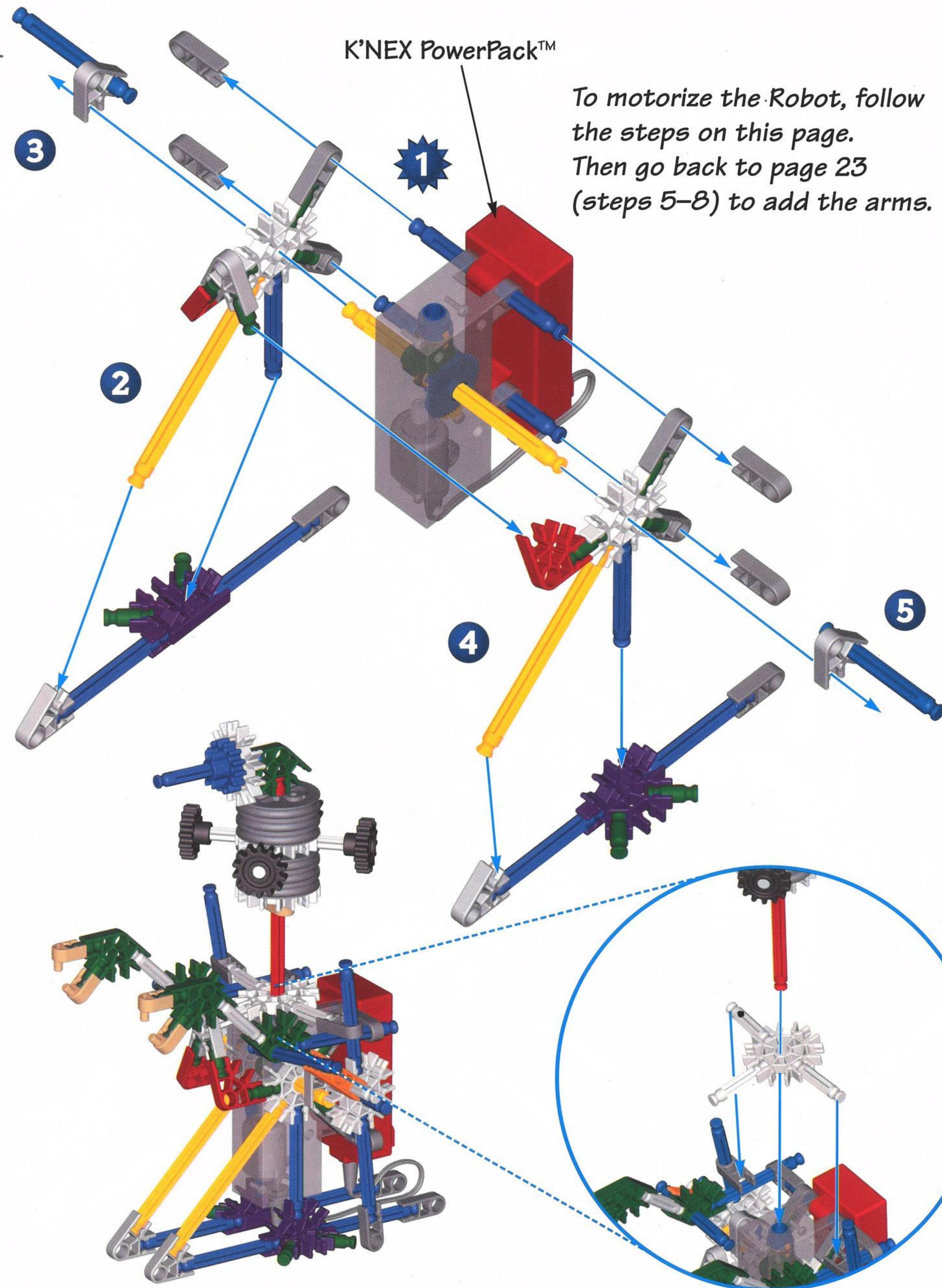


You will need these parts

5	4	16	1
14	8	11	(optional)
3	6	19	
5	4	3	
3	1	1	
5			

Everyone has big ideas about Robots. After you build this one, try designing more Robots to do all kinds of interesting things. Can you make a Robot that really picks something up?





Thanksgiving

Thanksgiving's turkey time, so set the table with Turkey Place Card Holders for everyone in the family.

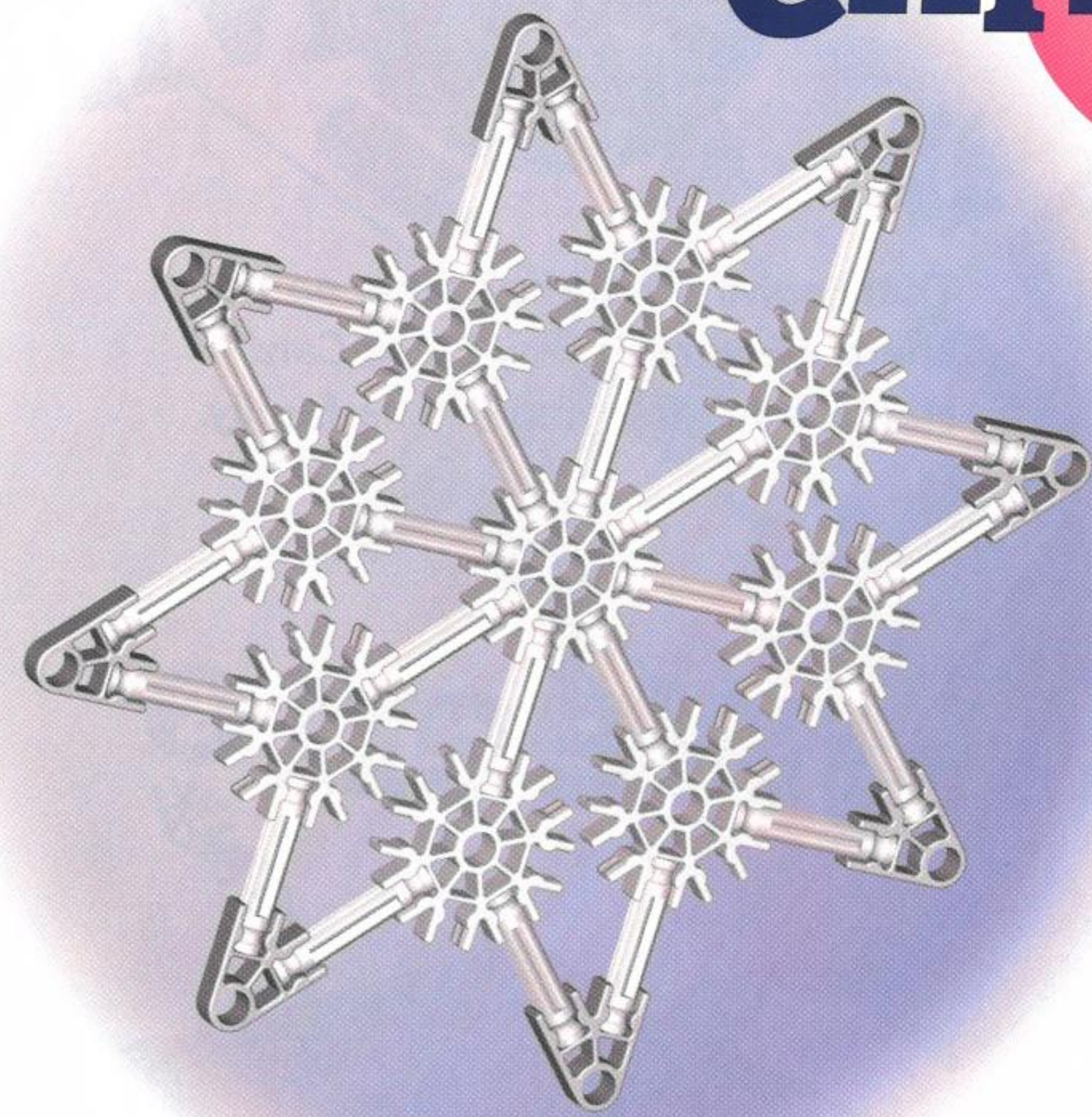
Halloween



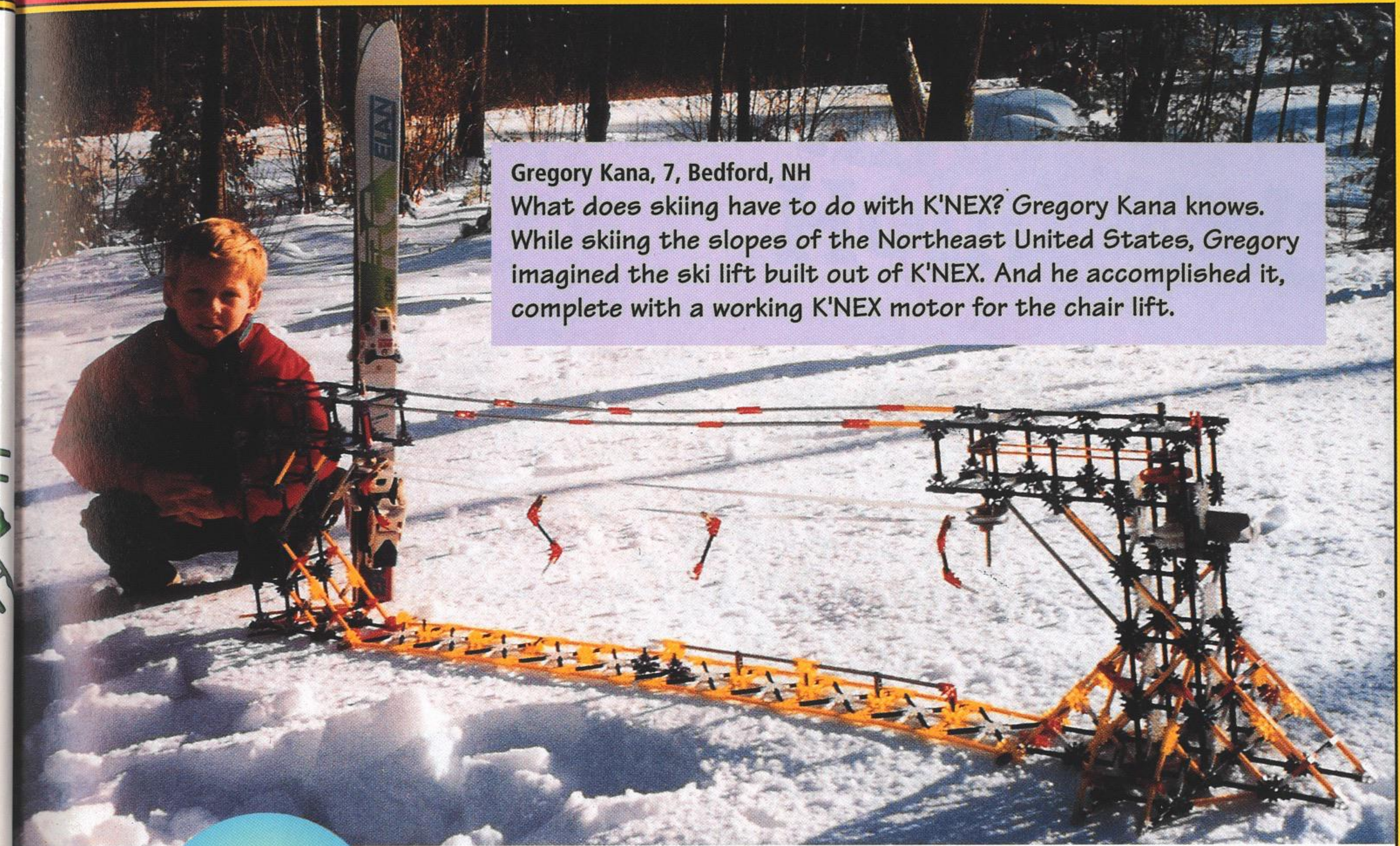
Ghosts and goblins and things that go bump in the night! Make these models, and all your Halloween ideas, from K'NEX!



Christmas



Here are some ideas when you're dreaming of a white Christmas. How about trimming the tree with your own K'NEX ornaments?



Gregory Kana, 7, Bedford, NH
What does skiing have to do with K'NEX? Gregory Kana knows. While skiing the slopes of the Northeast United States, Gregory imagined the ski lift built out of K'NEX. And he accomplished it, complete with a working K'NEX motor for the chair lift.

Winter

Snowflakes make wonderful decorations, and you can make all sizes and shapes with K'NEX.

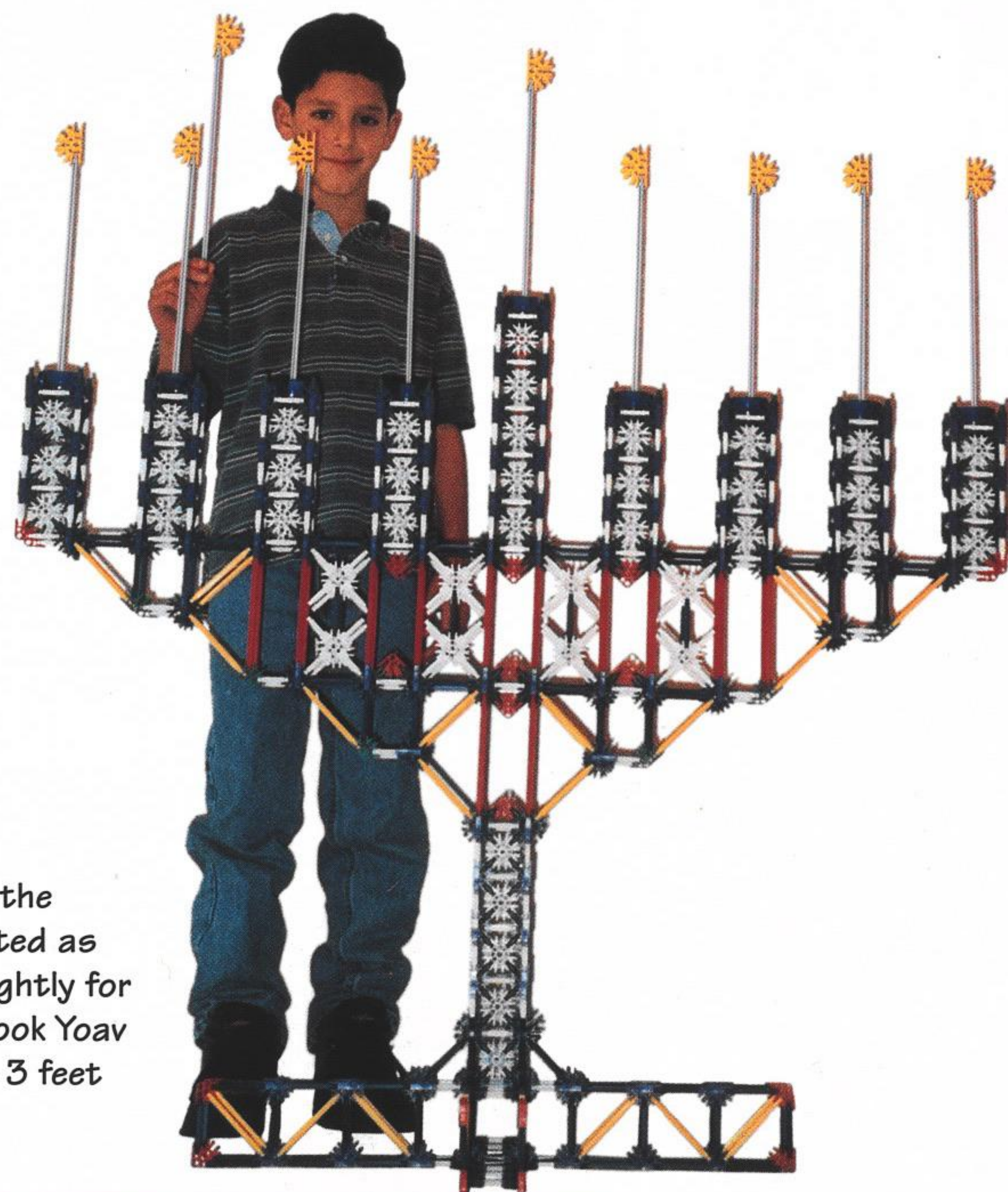
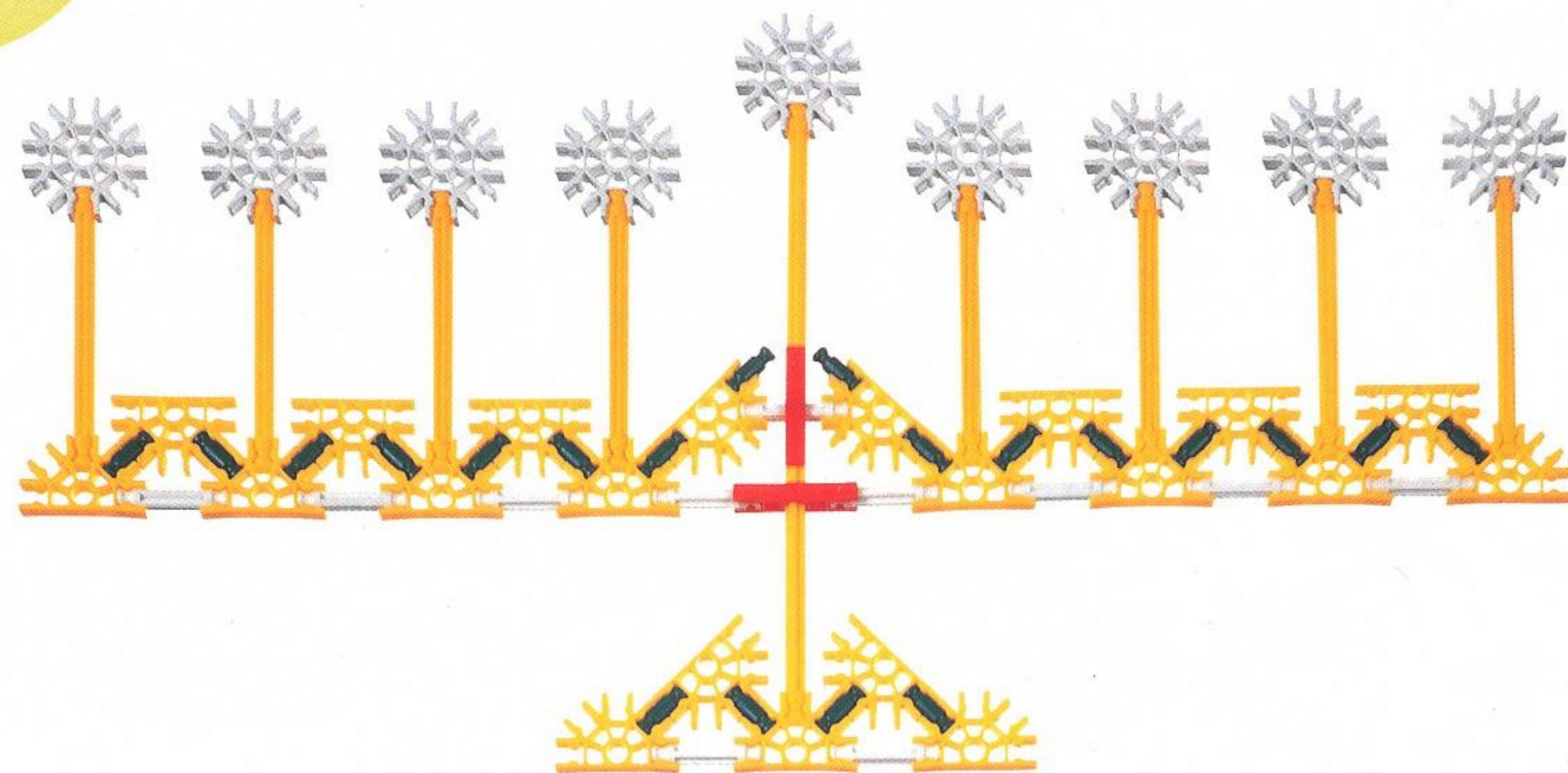


You will need these parts

16 2 14 46

Chanukah

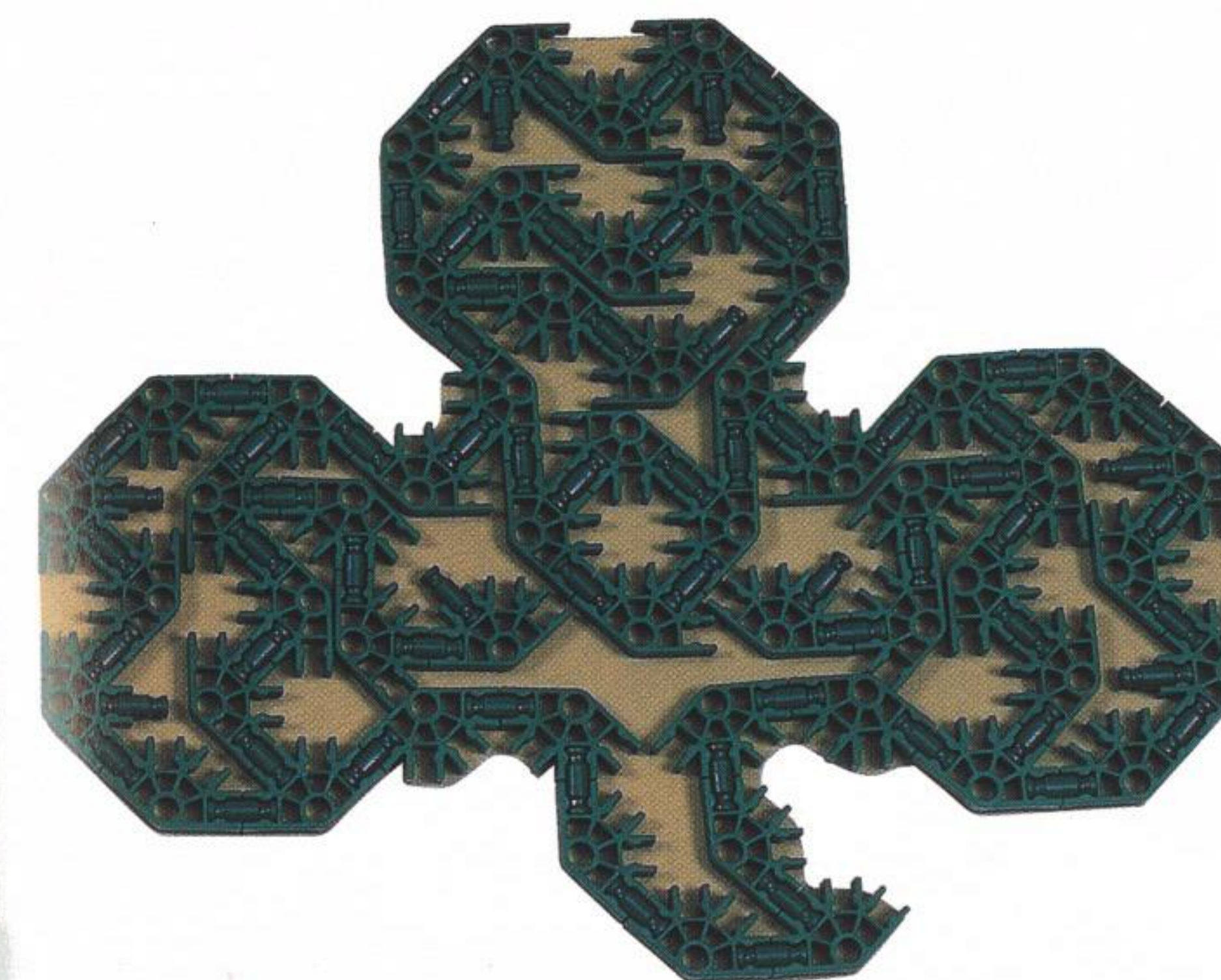
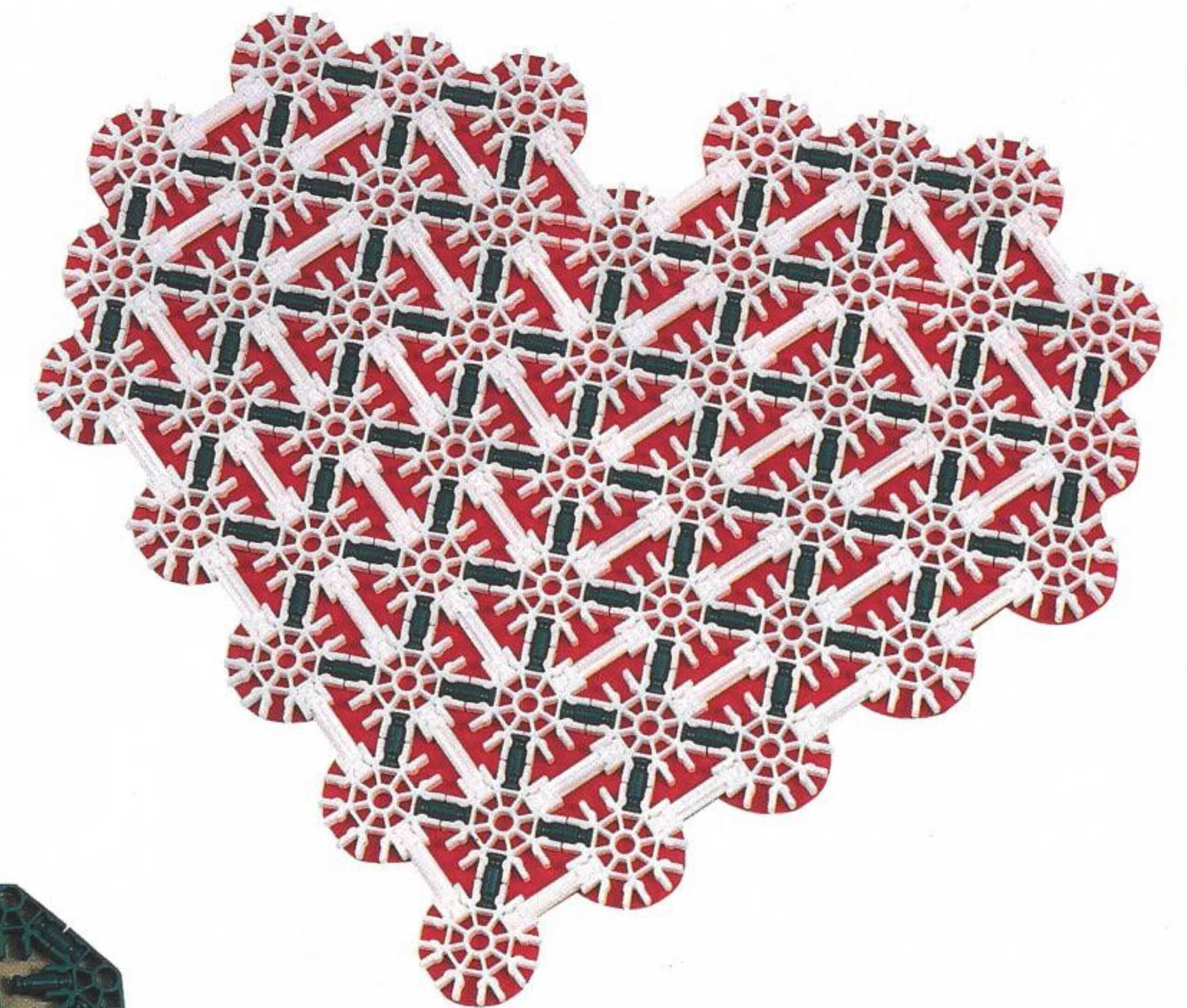
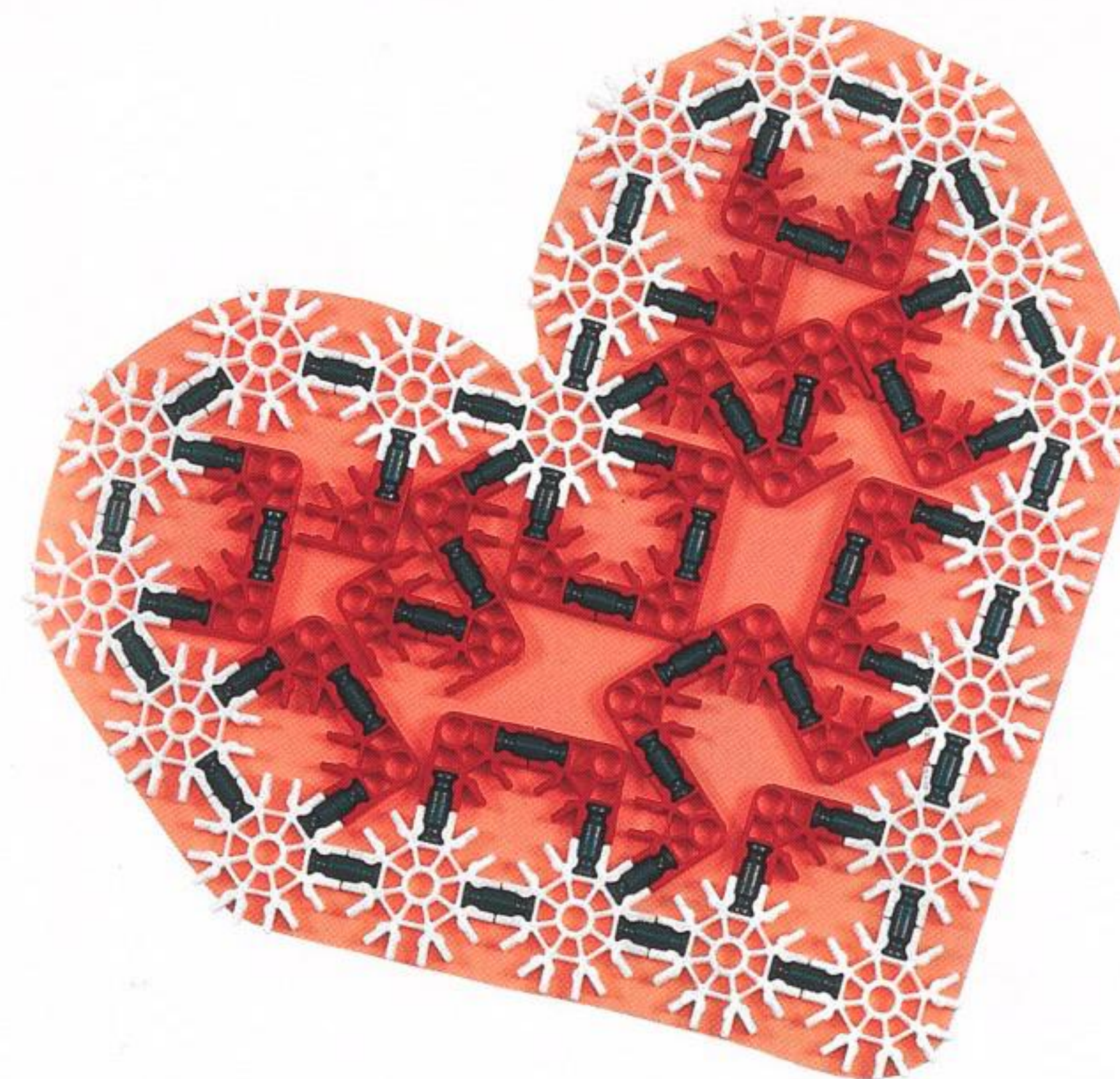
A joyous holiday time for celebrating! What other Chanukah symbols can you build from K'NEX?



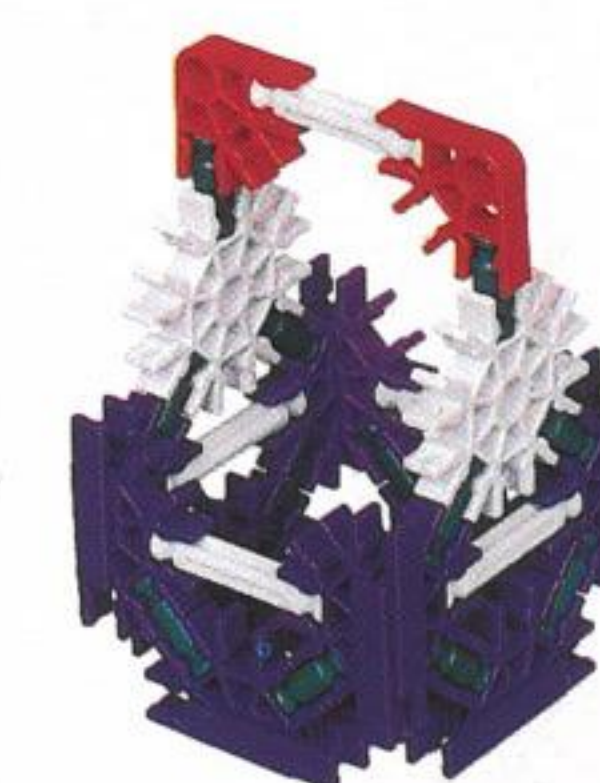
Yoav Schatzberg, age 9, Irvine, CA

Festive and full of holiday cheer, the Schatzberg residence is illuminated as Yoav's K'NEX Menorah shines brightly for Chanukah. The Menorah, which took Yoav two weeks to construct, stands 3 feet tall and almost 4 feet wide.

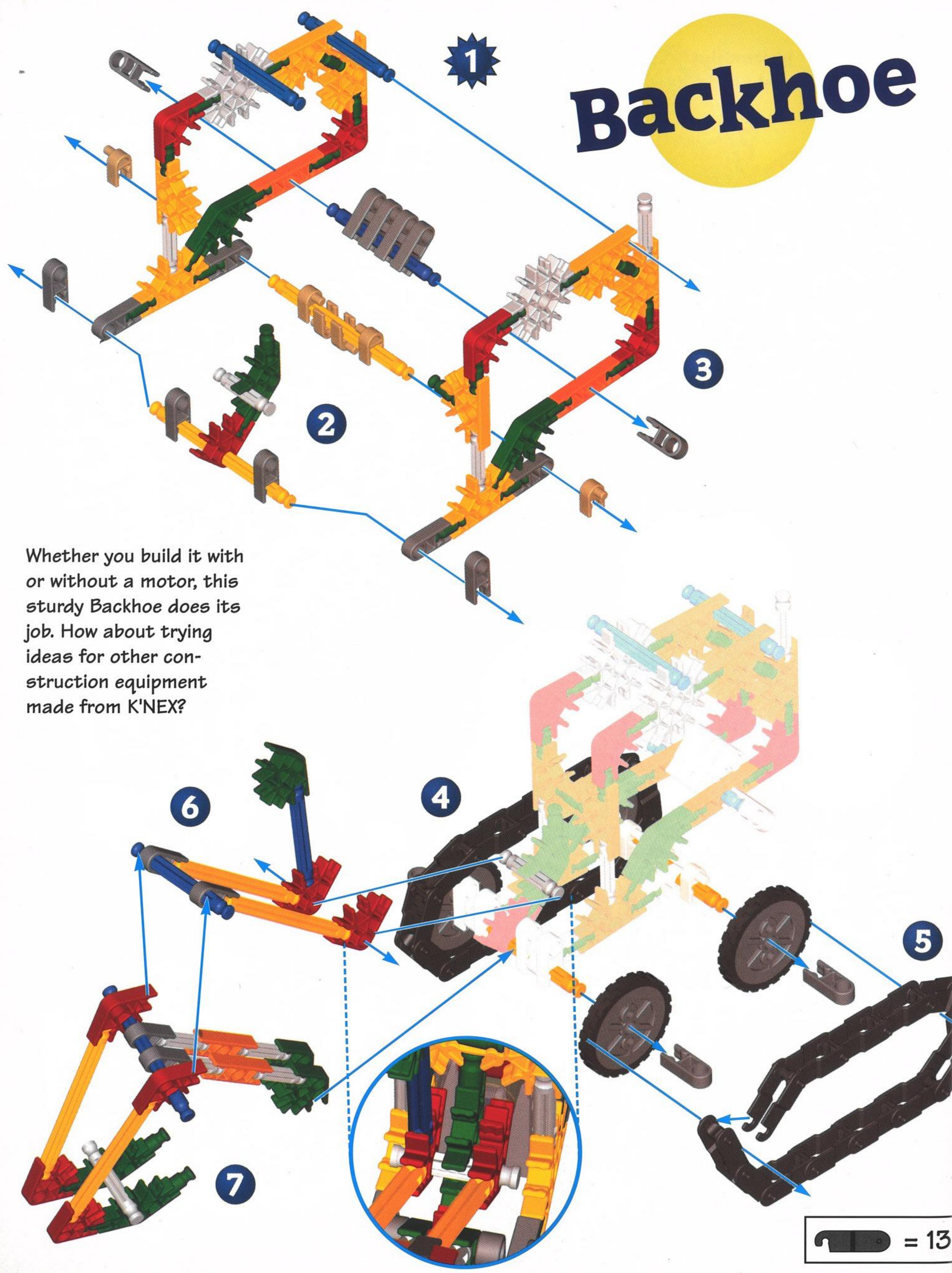
Holidays



Happy hearts for Valentine's Day. Say "Erin go bragh" on St. Patrick's Day, too. For Easter build the big basket first - it holds more candy!



Backhoe



Whether you build it with or without a motor, this sturdy Backhoe does its job. How about trying ideas for other construction equipment made from K'NEX?

= 13

You will need these parts

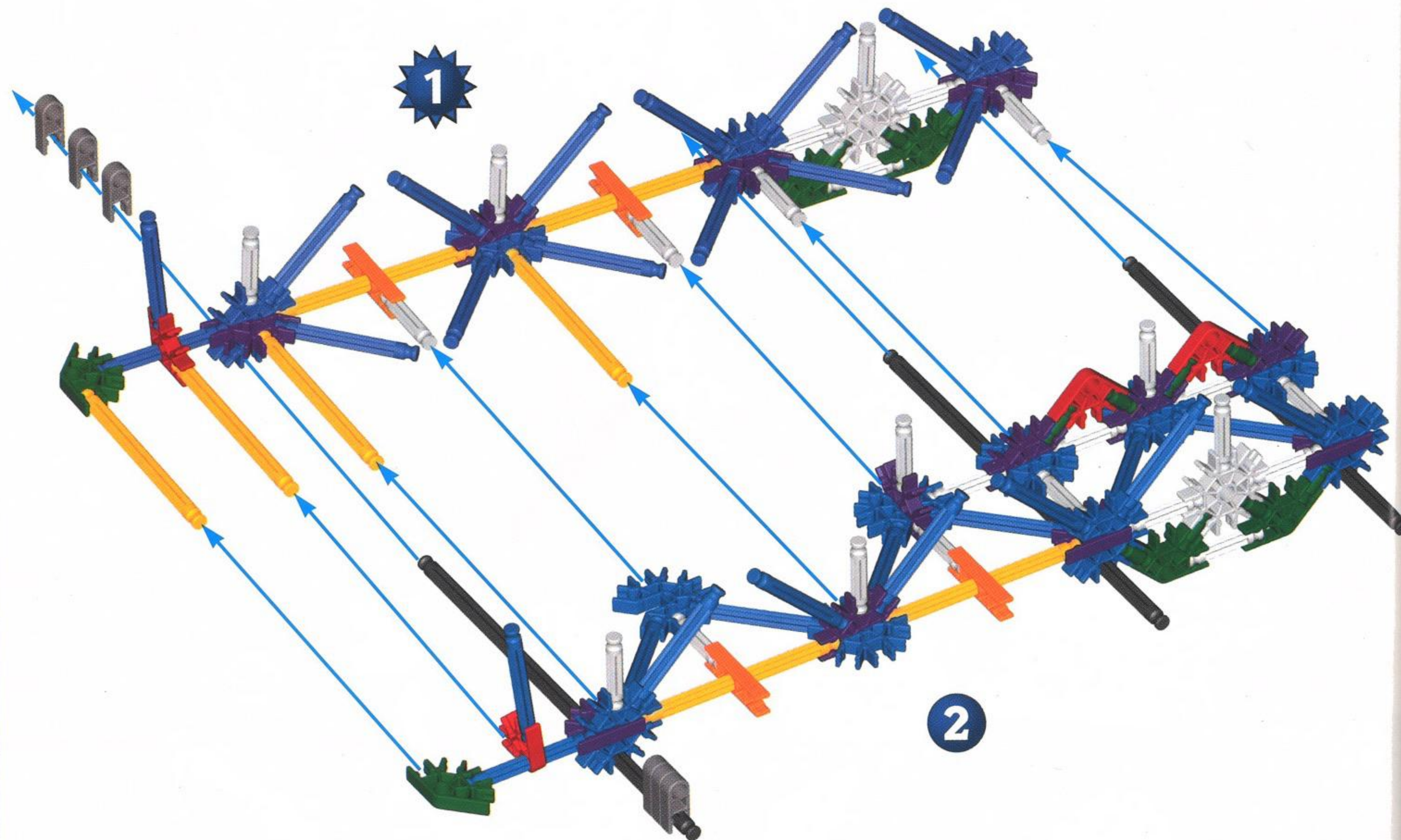
- | | |
|---------------|----|
| 1 (optional) | |
| 6 | 27 |
| 22 | 9 |
| 4 | 6 |
| 11 | 6 |
| 8 | 26 |
| 8 | 4 |
| 2 | 4 |

To motorize your model, build steps 1-3 on this page first, then go to steps 4-7 to finish your Backhoe.



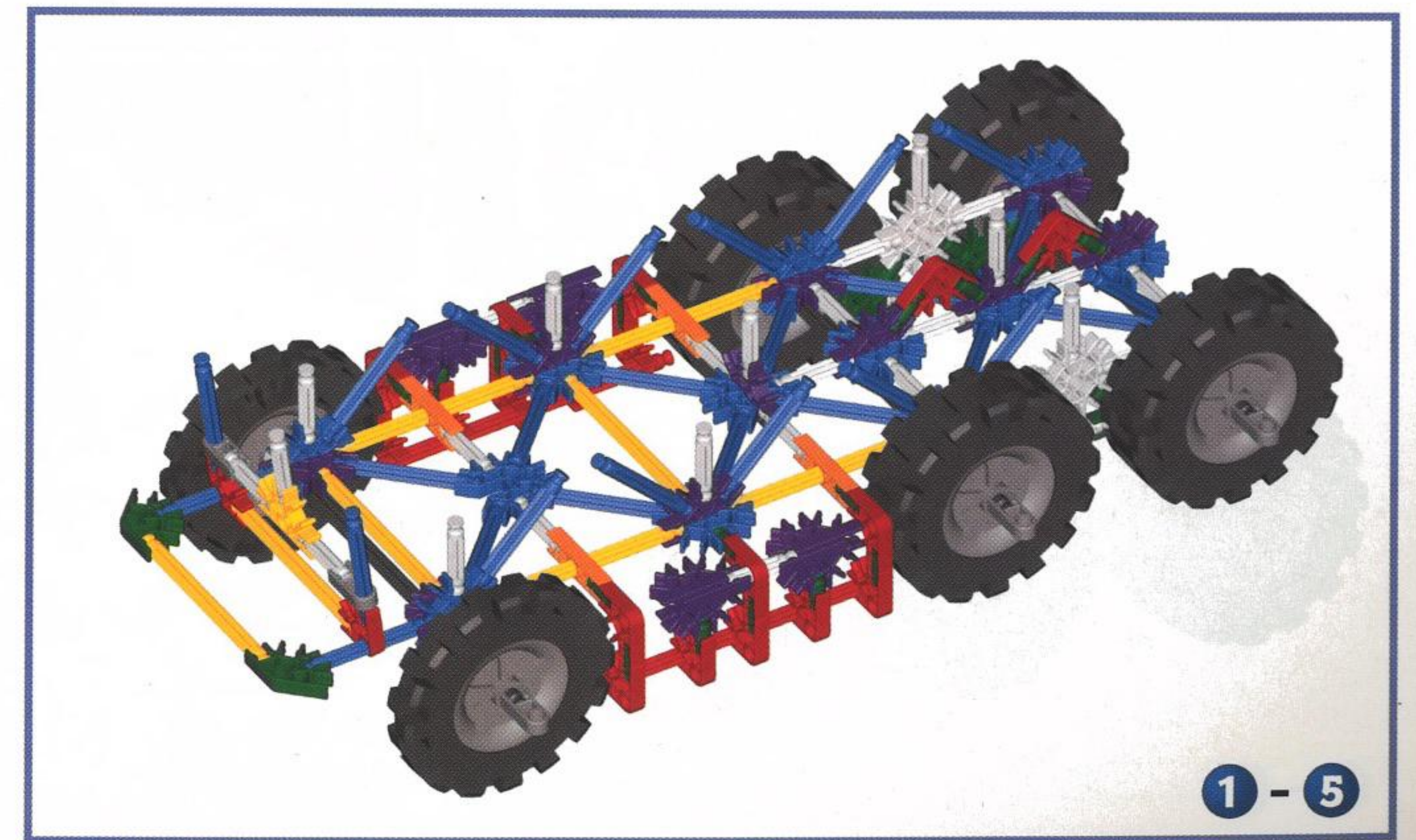
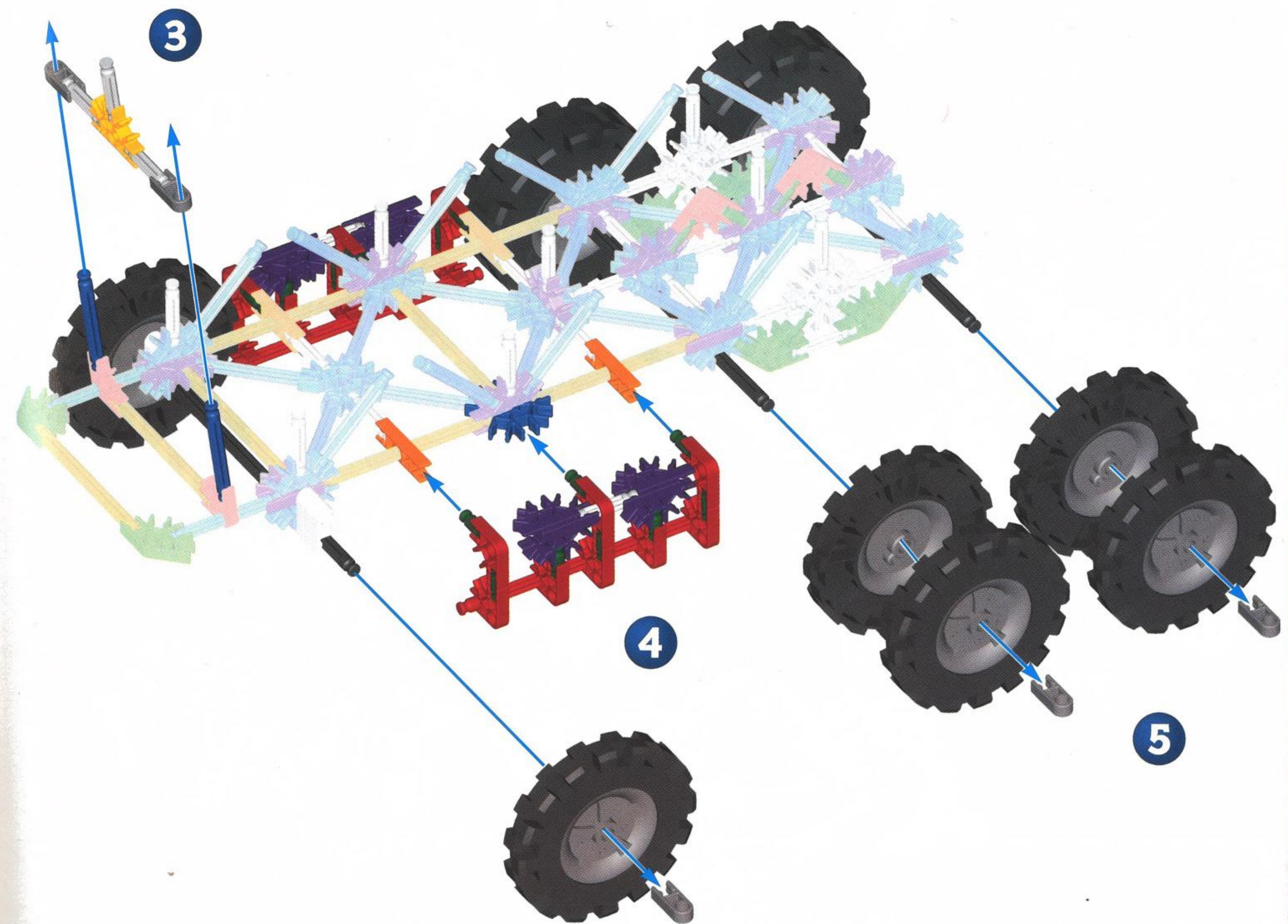
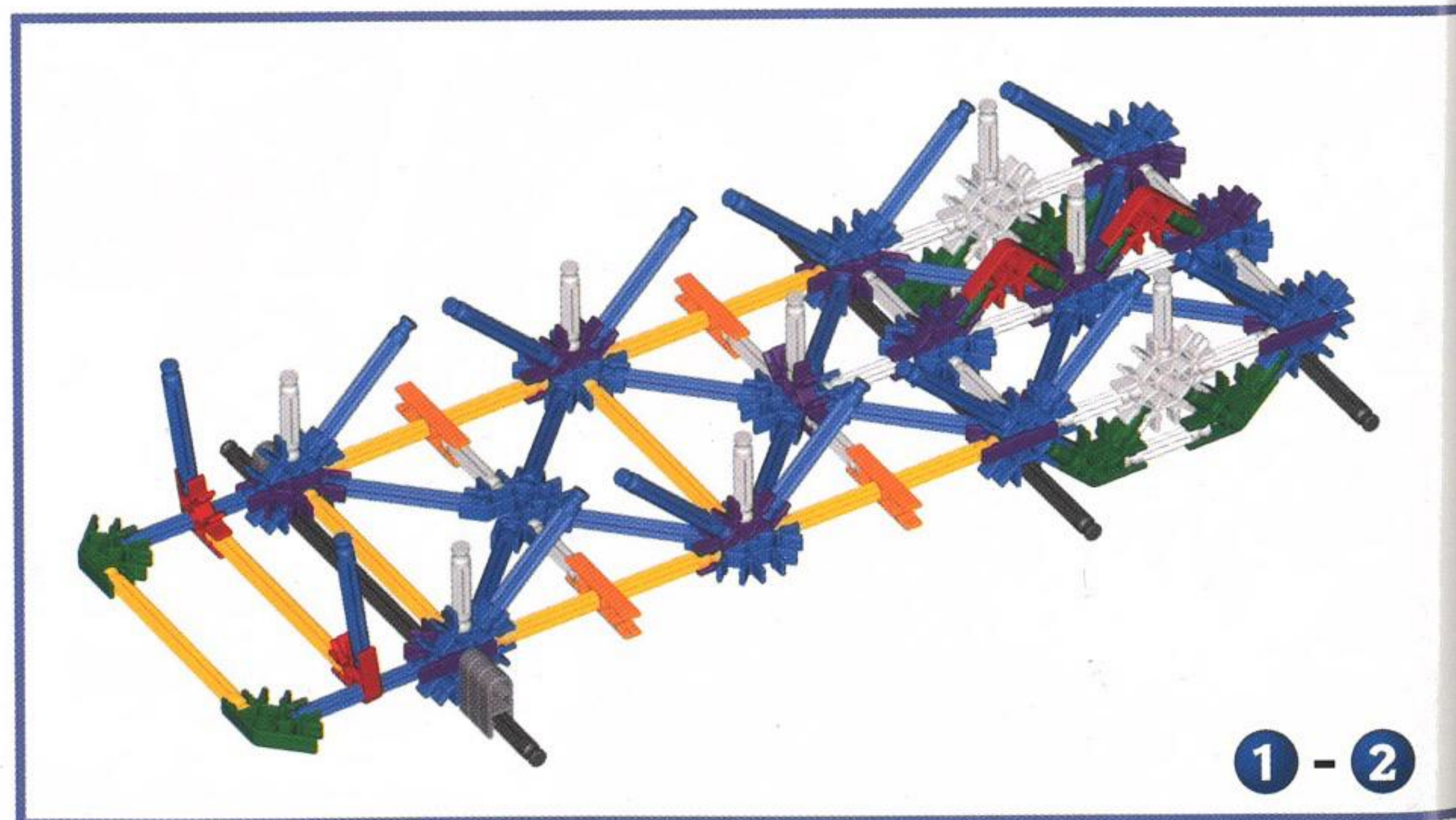
K'NEX PowerPack™

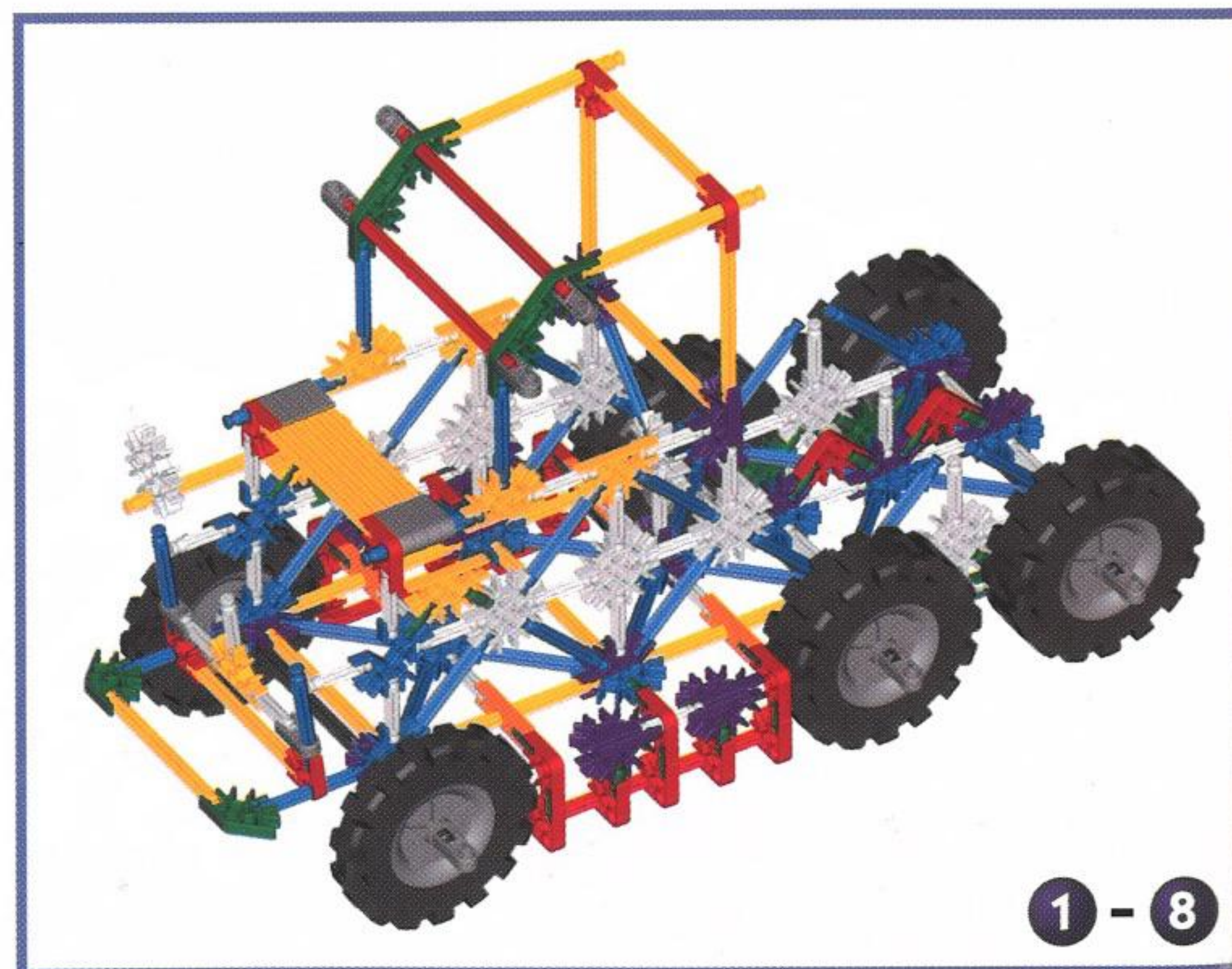
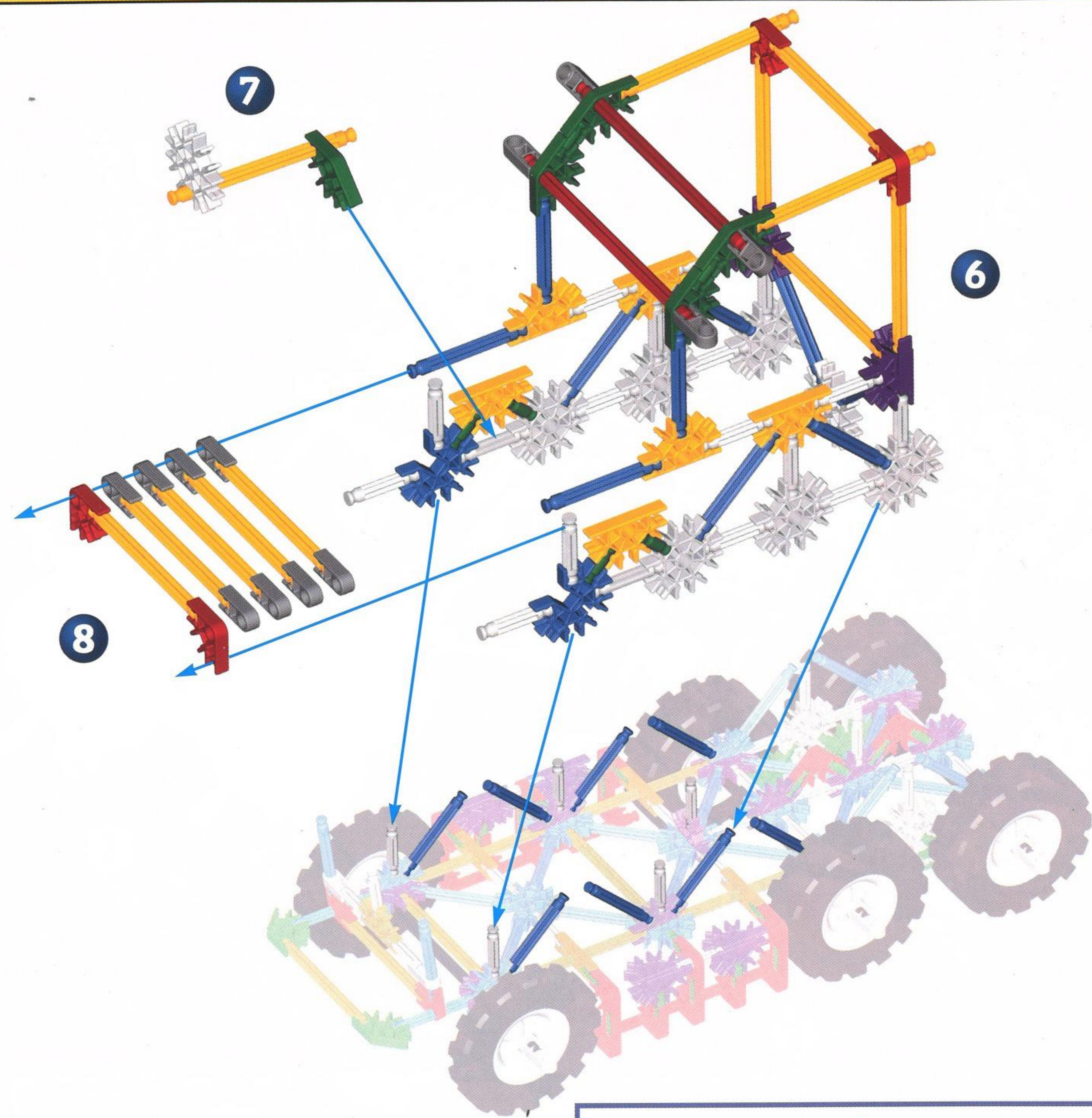
Heavy Hauler



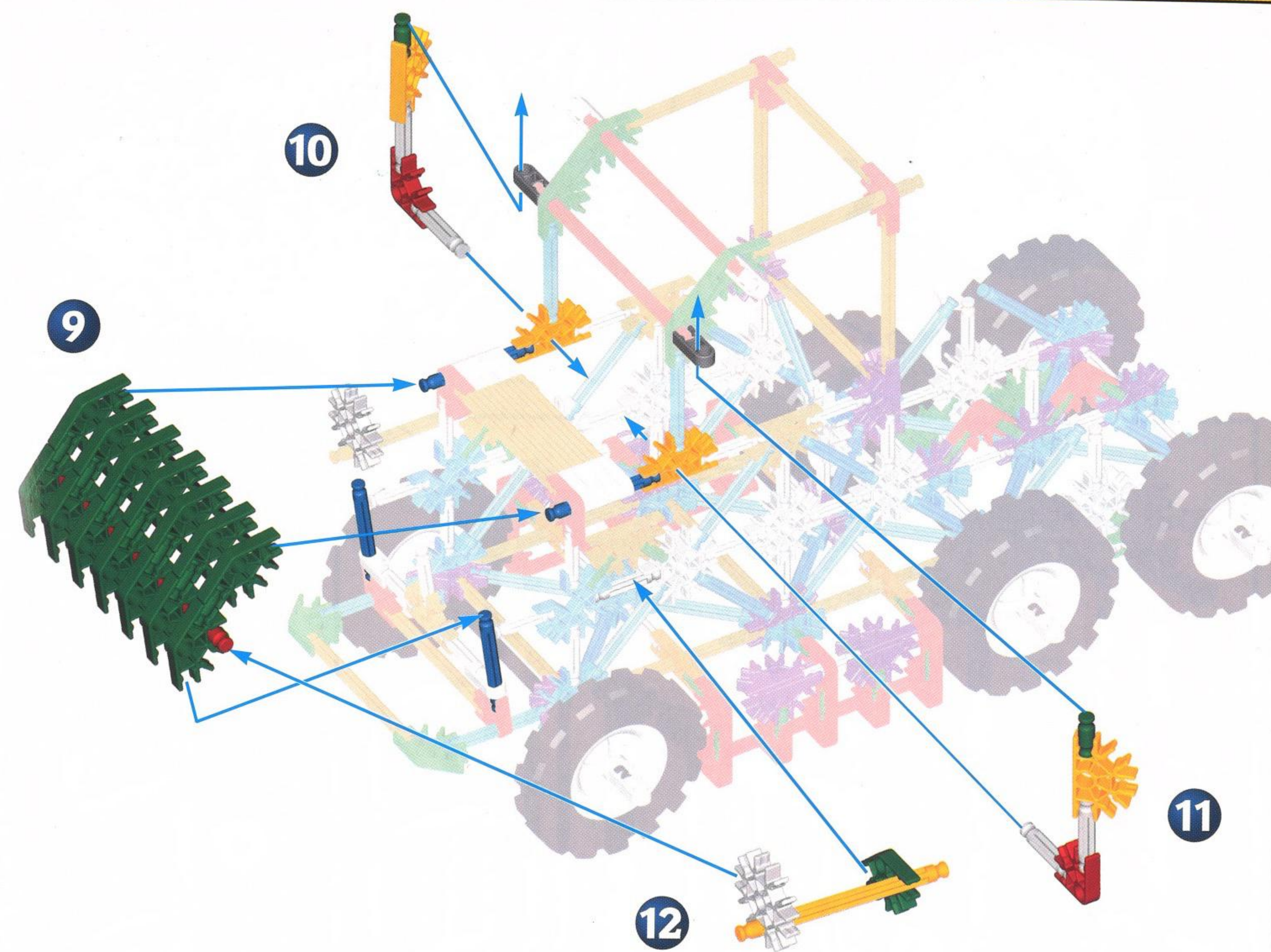
You will need these parts

26	43
4	52
26	38
26	21
24	5
9	3
15	10
11	10



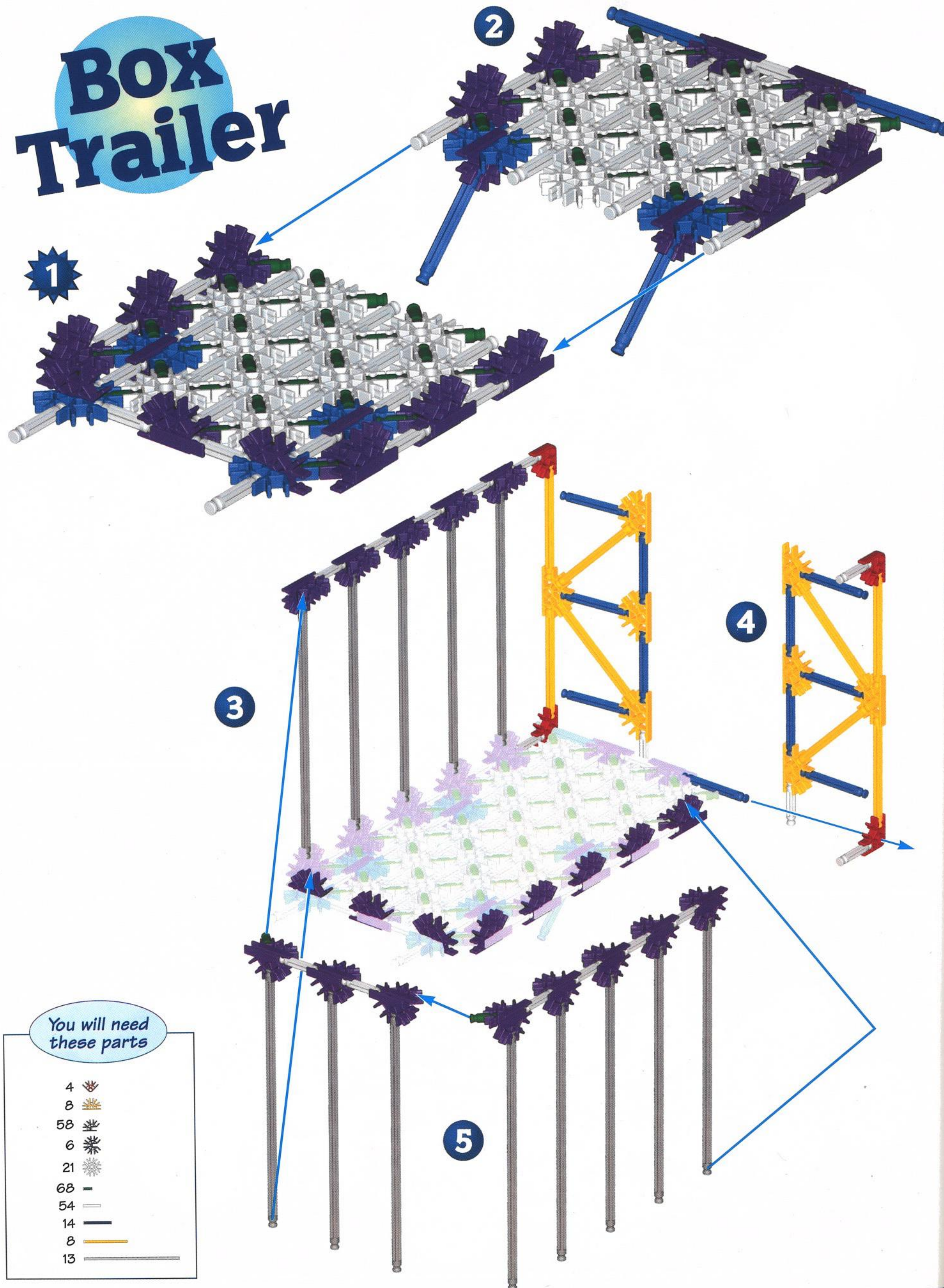


1 - 8



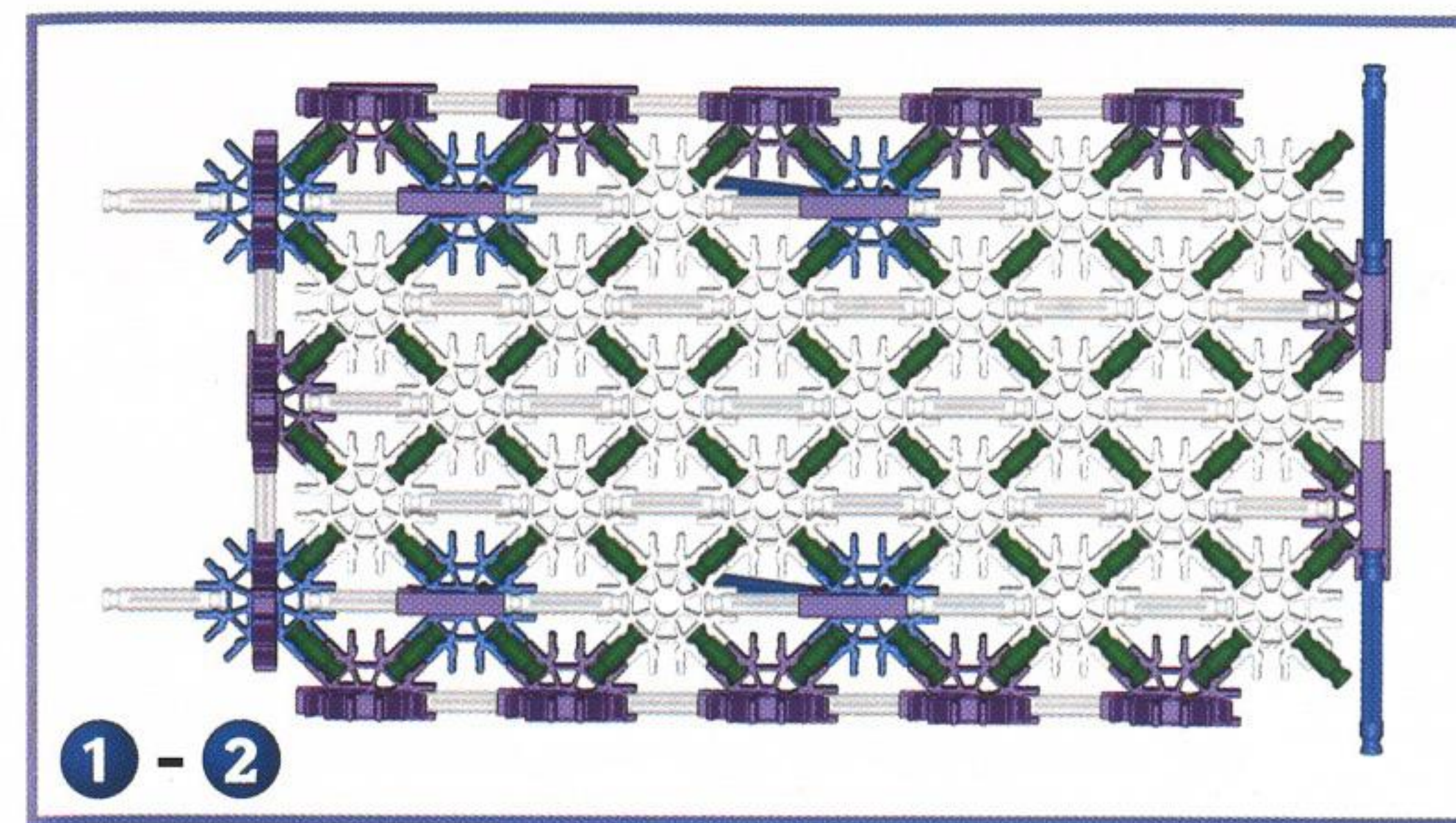
1 - 12

Box Trailer



You will need these parts

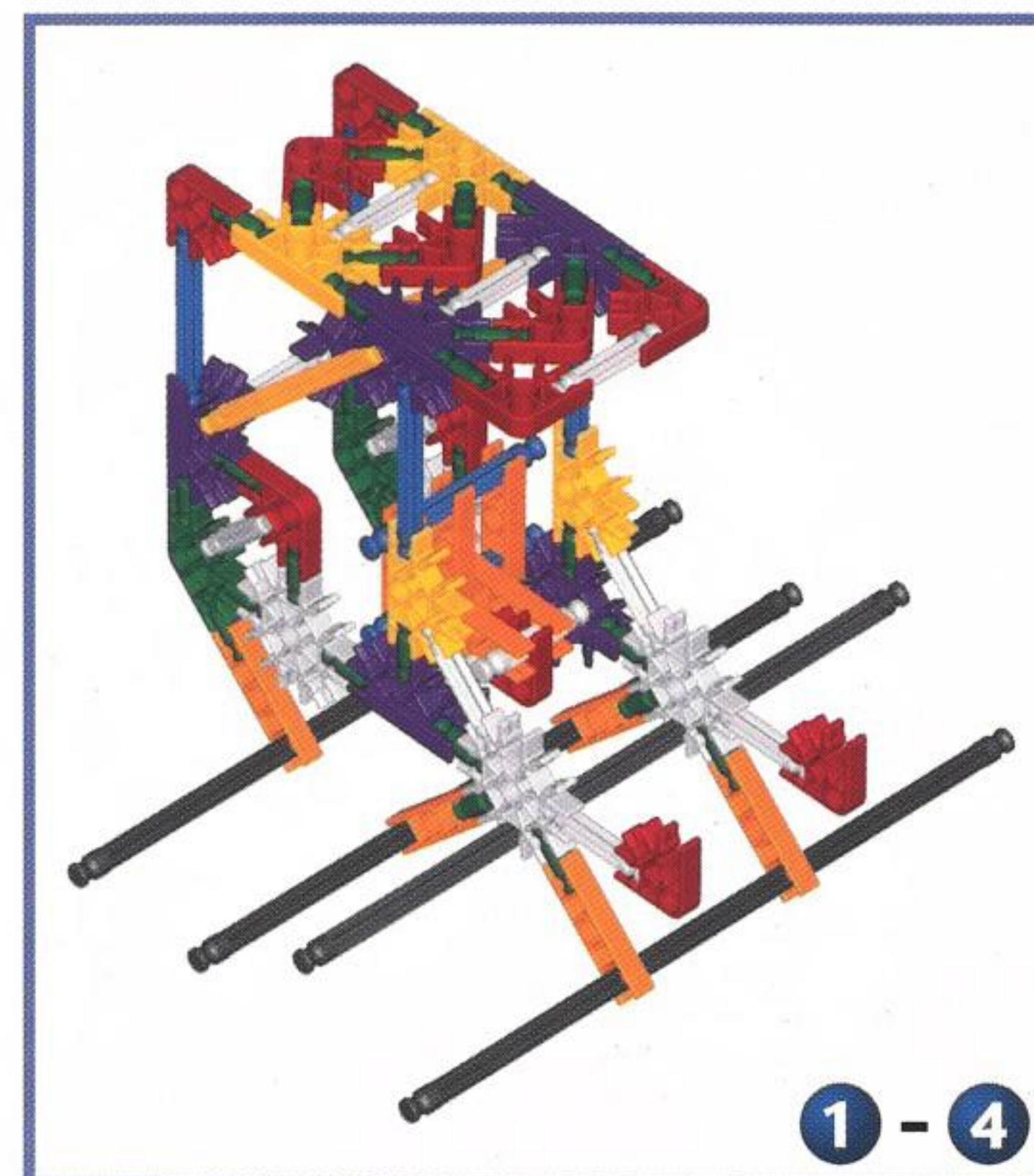
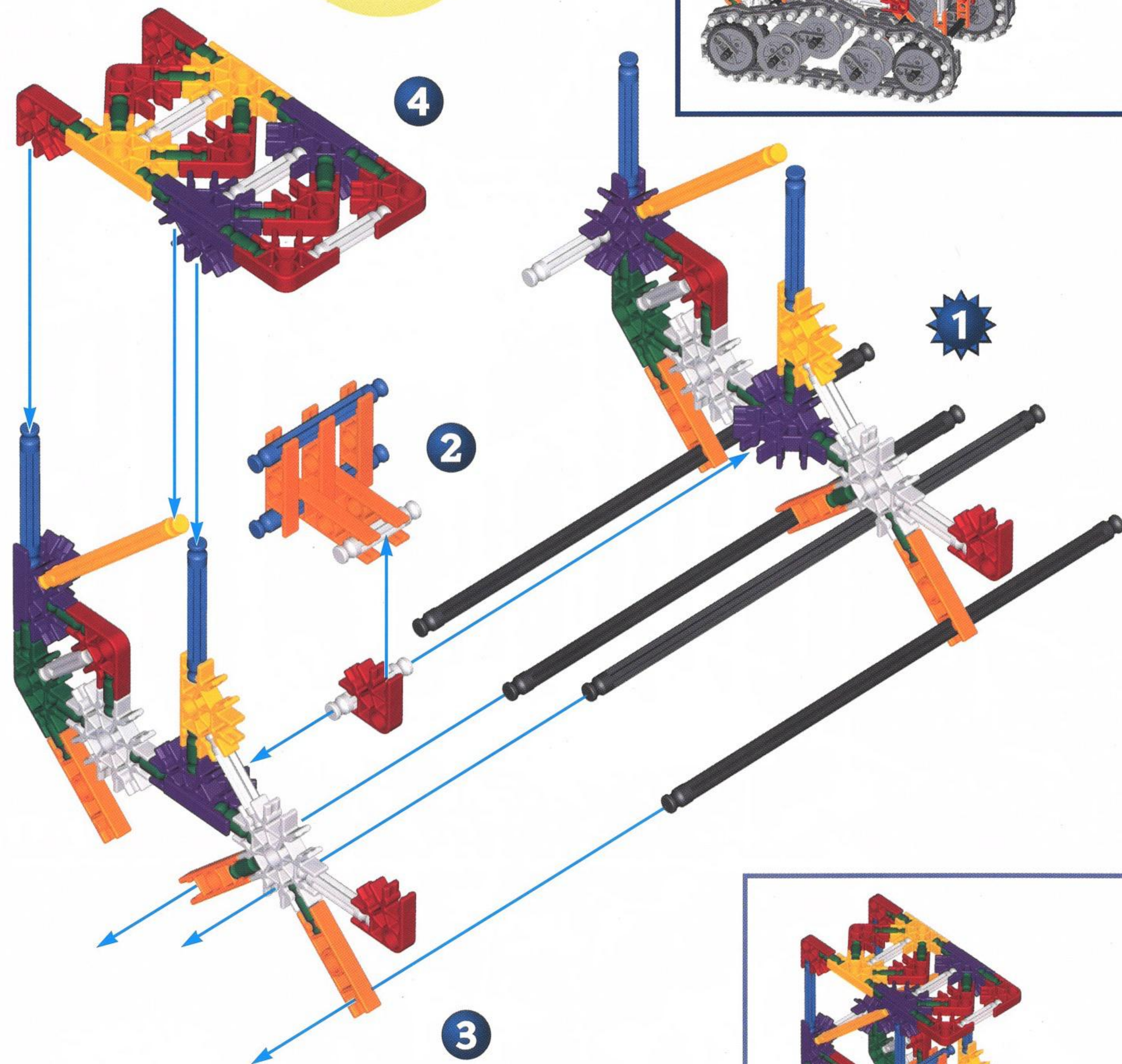
- 4
- 8
- 58
- 6
- 21
- 68
- 54
- 14
- 8
- 13



Hook this solid trailer onto the Heavy Hauler (or another K'NEX truck you've built) for over-the-road hauling.



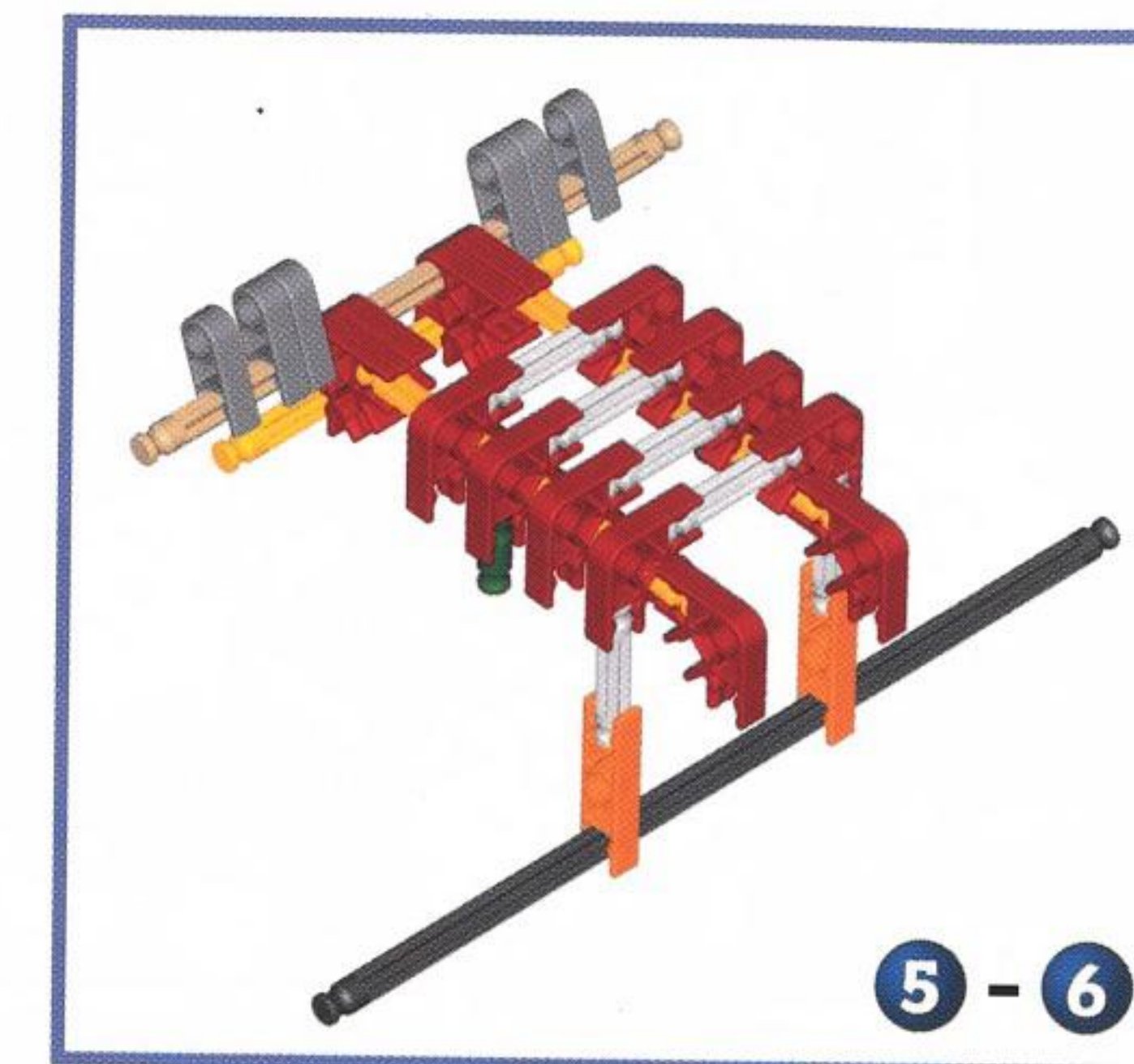
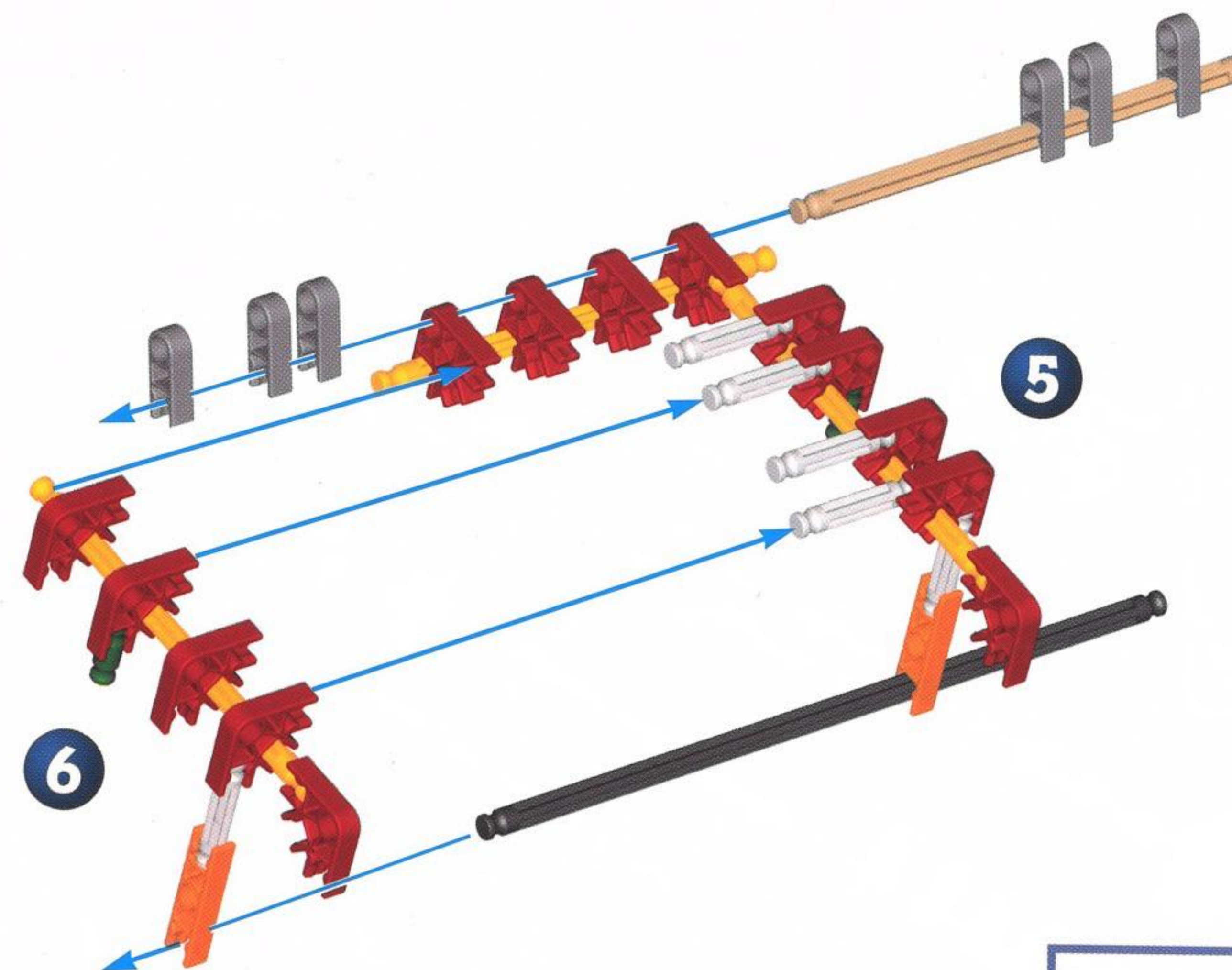
Bulldozer



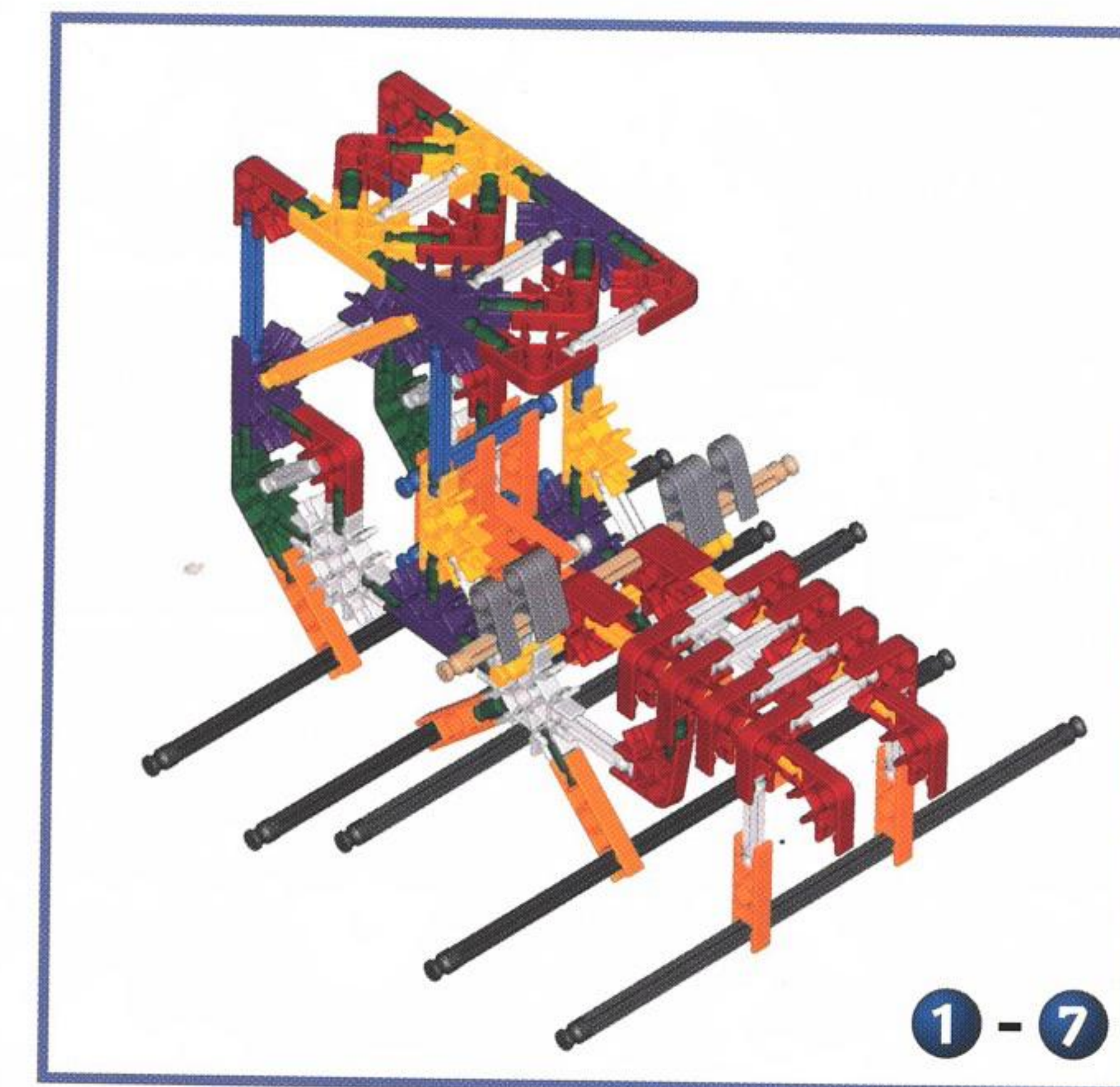
1 - 4

You will need these parts

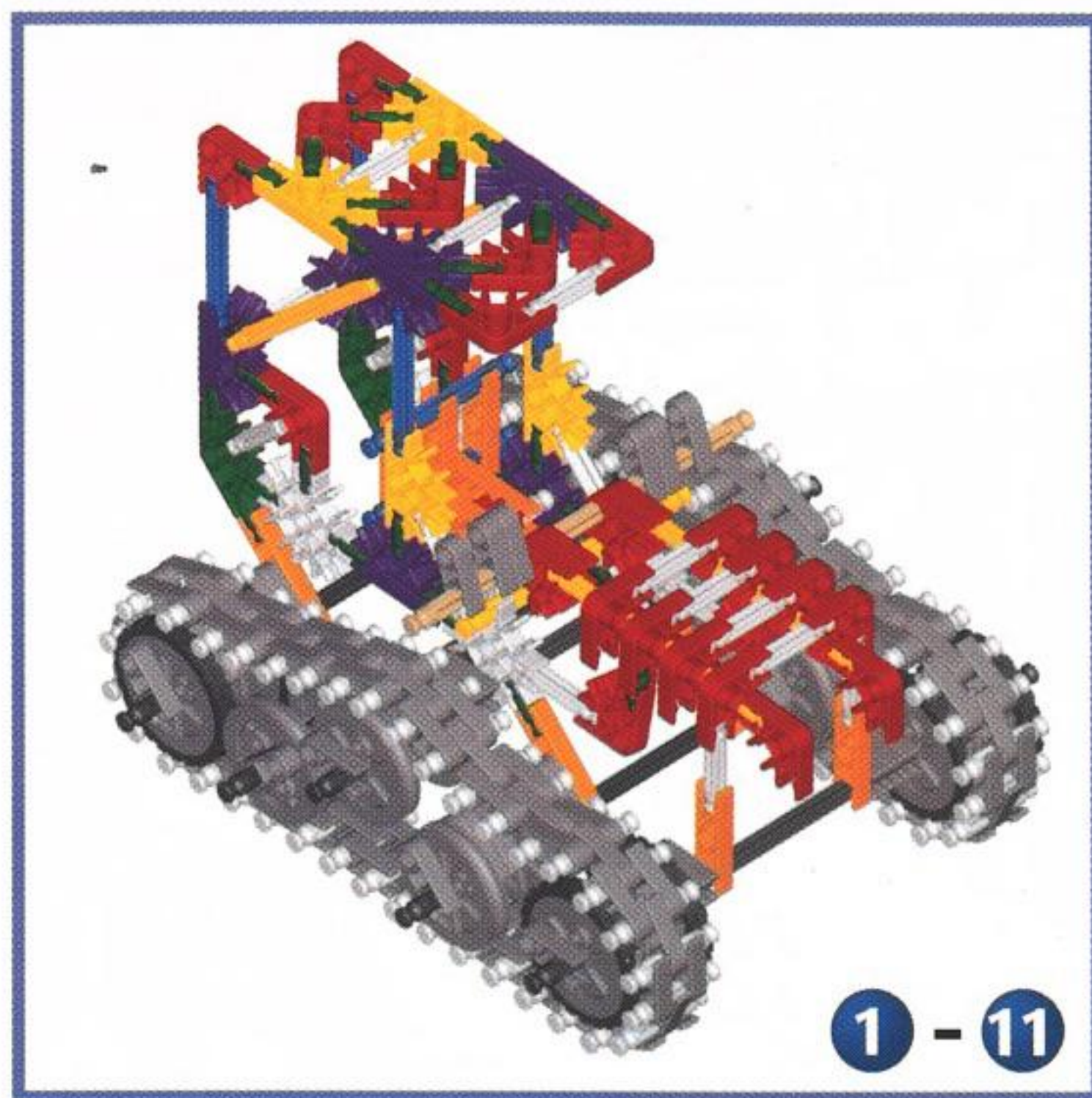
191	5	88	1	8
13	26	112	1	20
4	11	10	6	
42	12	7		



5 - 6



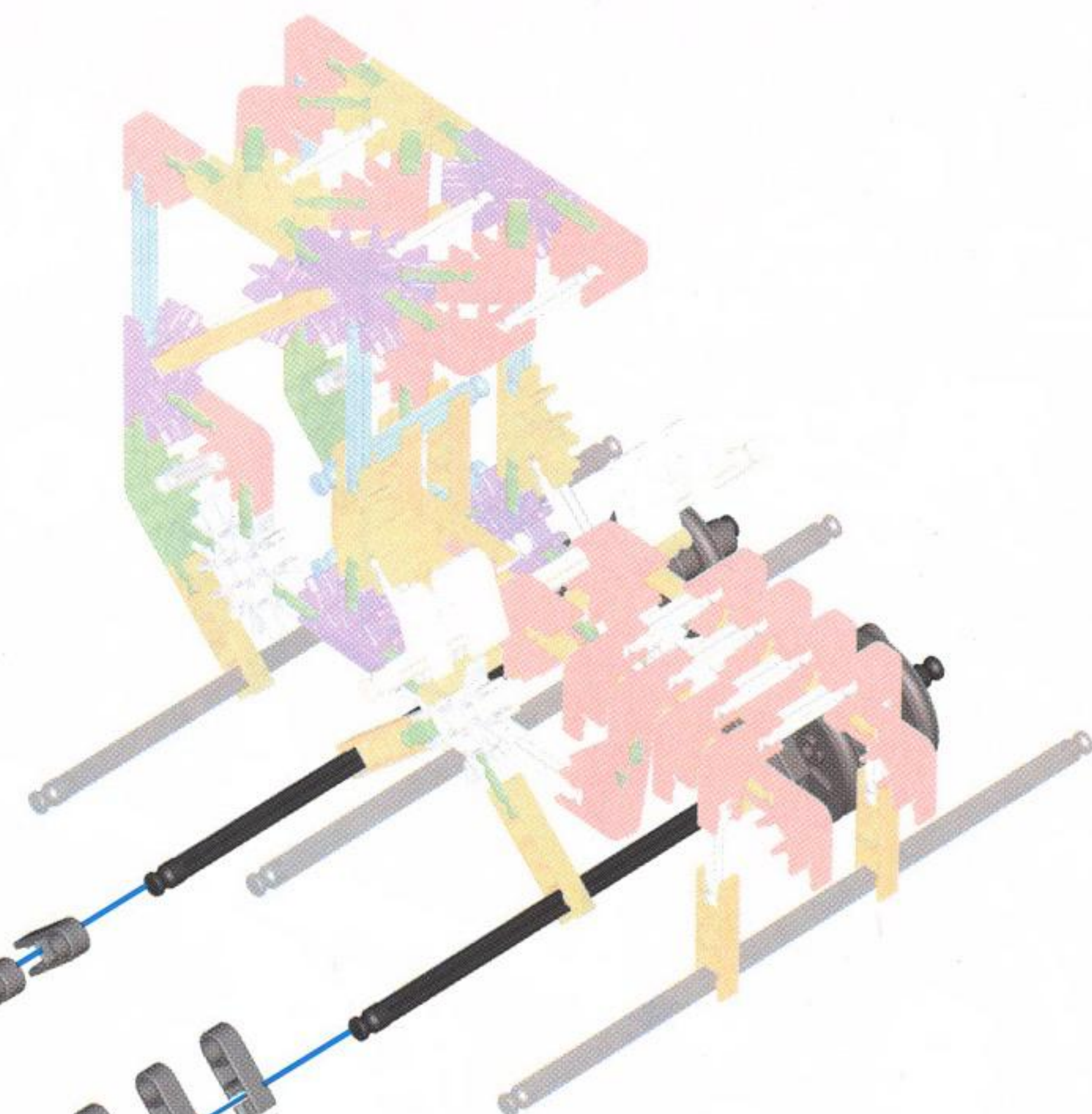
1 - 7



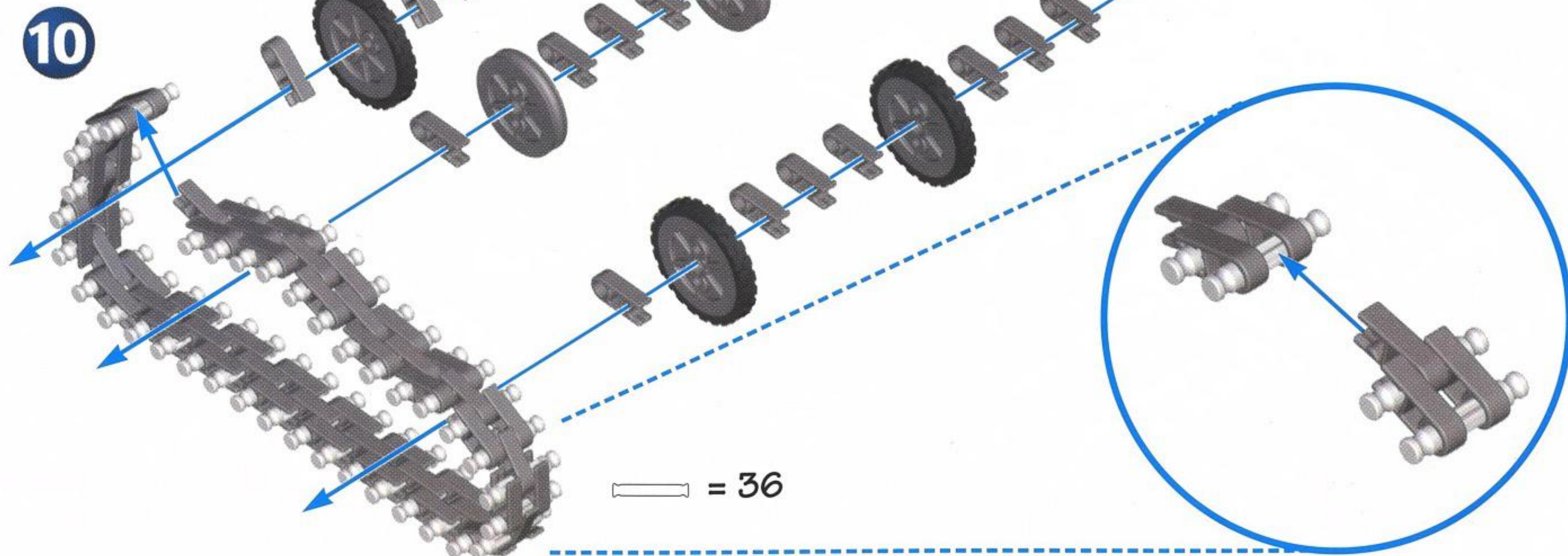
1 - 11



8



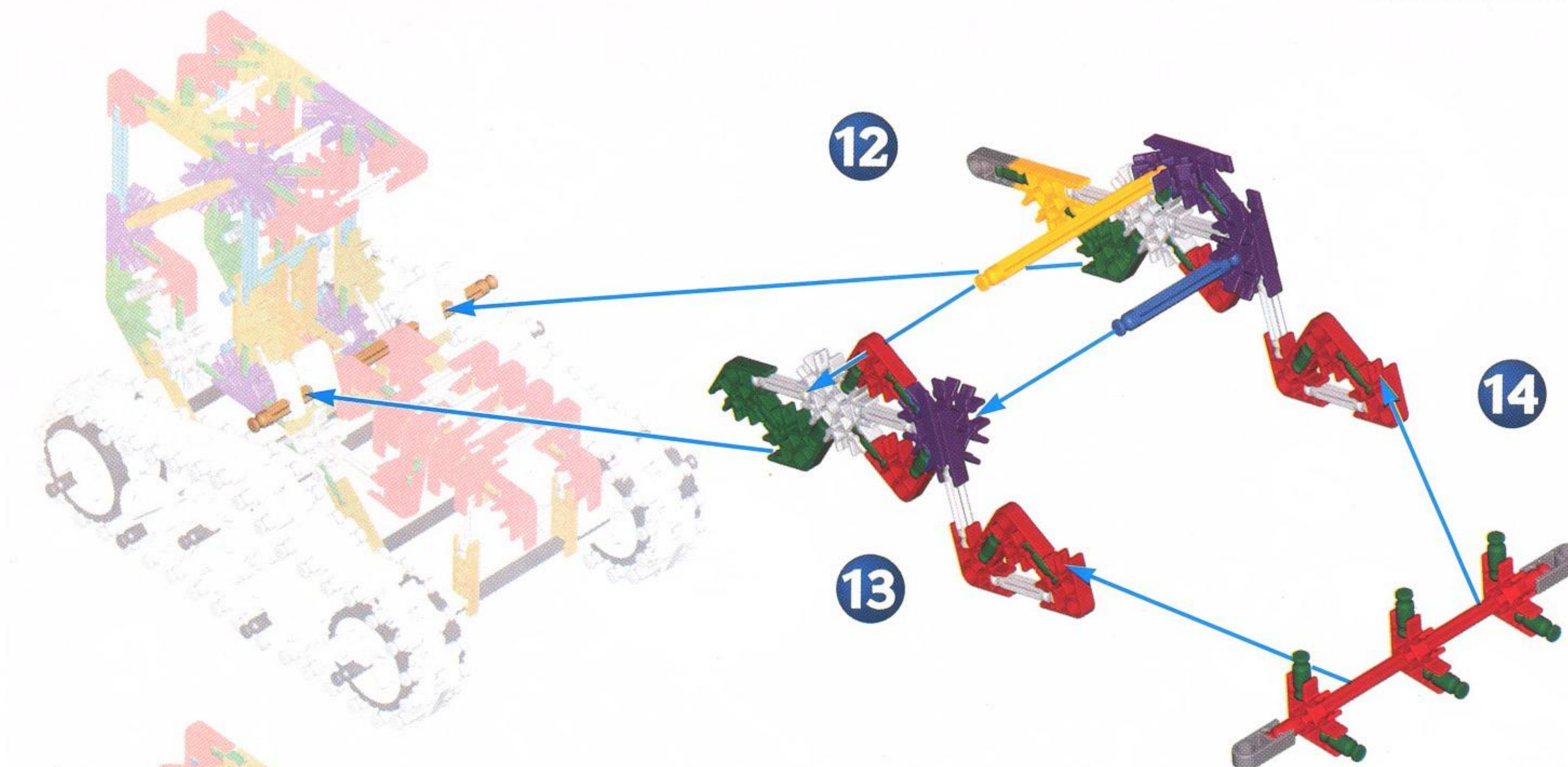
9



10

= 36

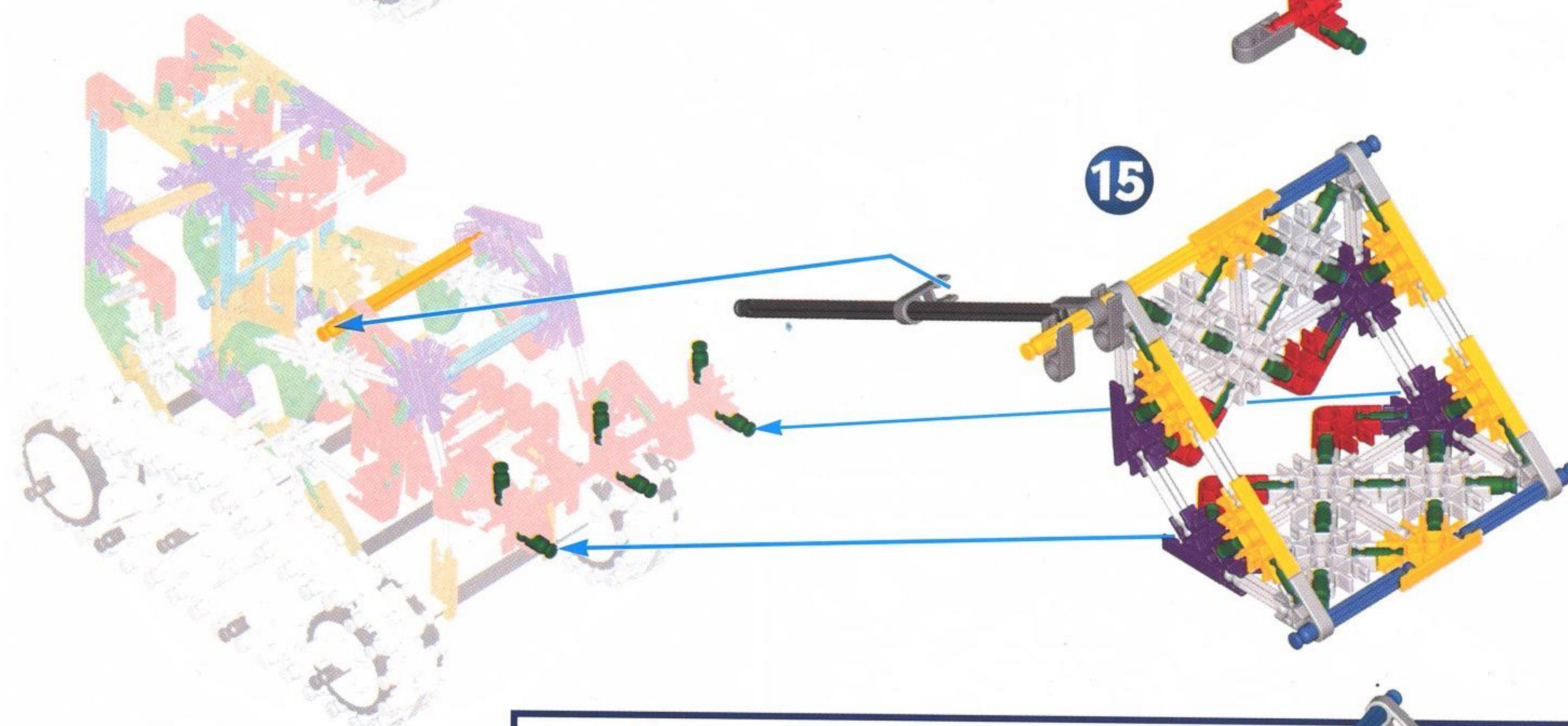
11



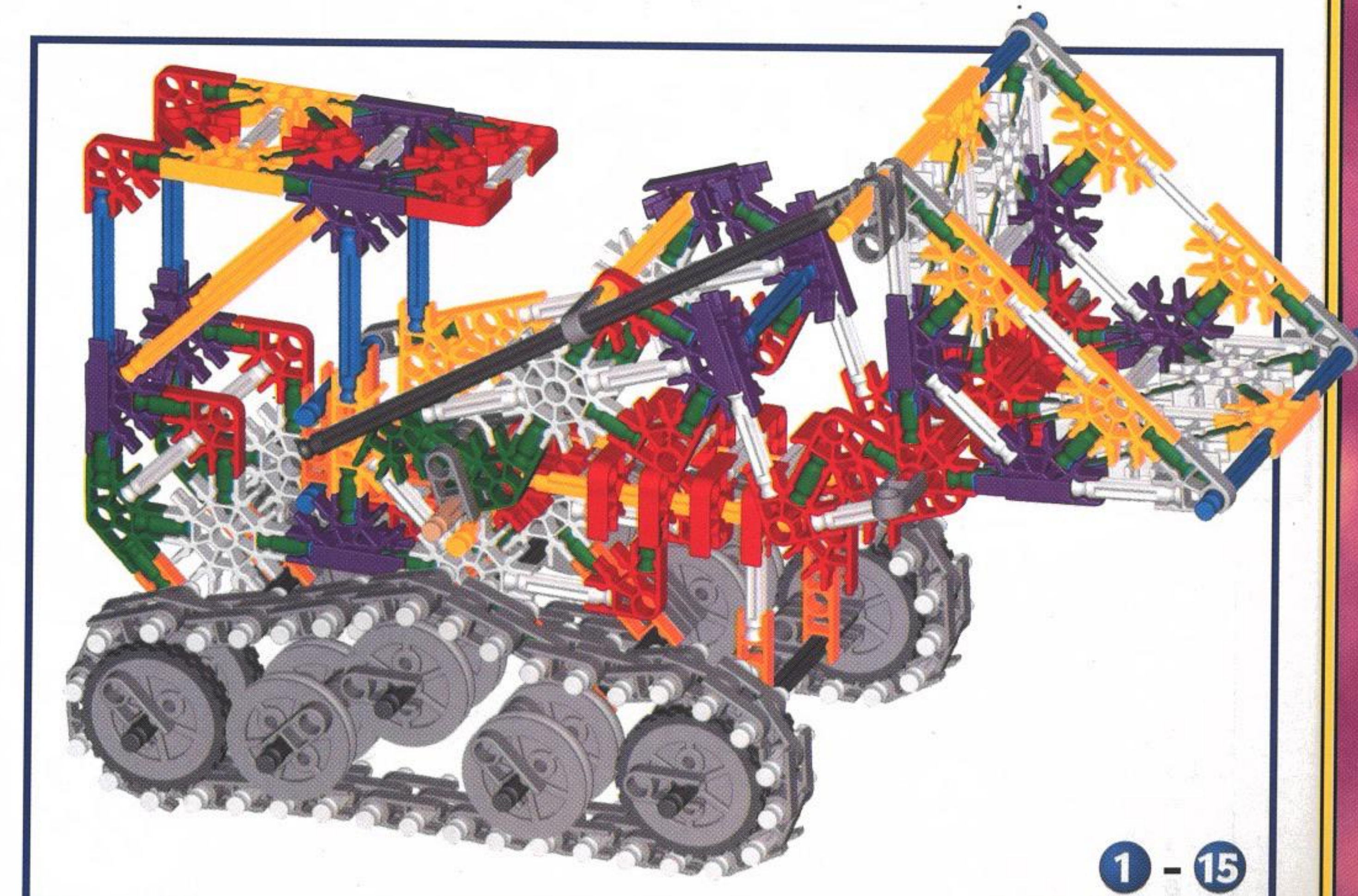
12

13

14



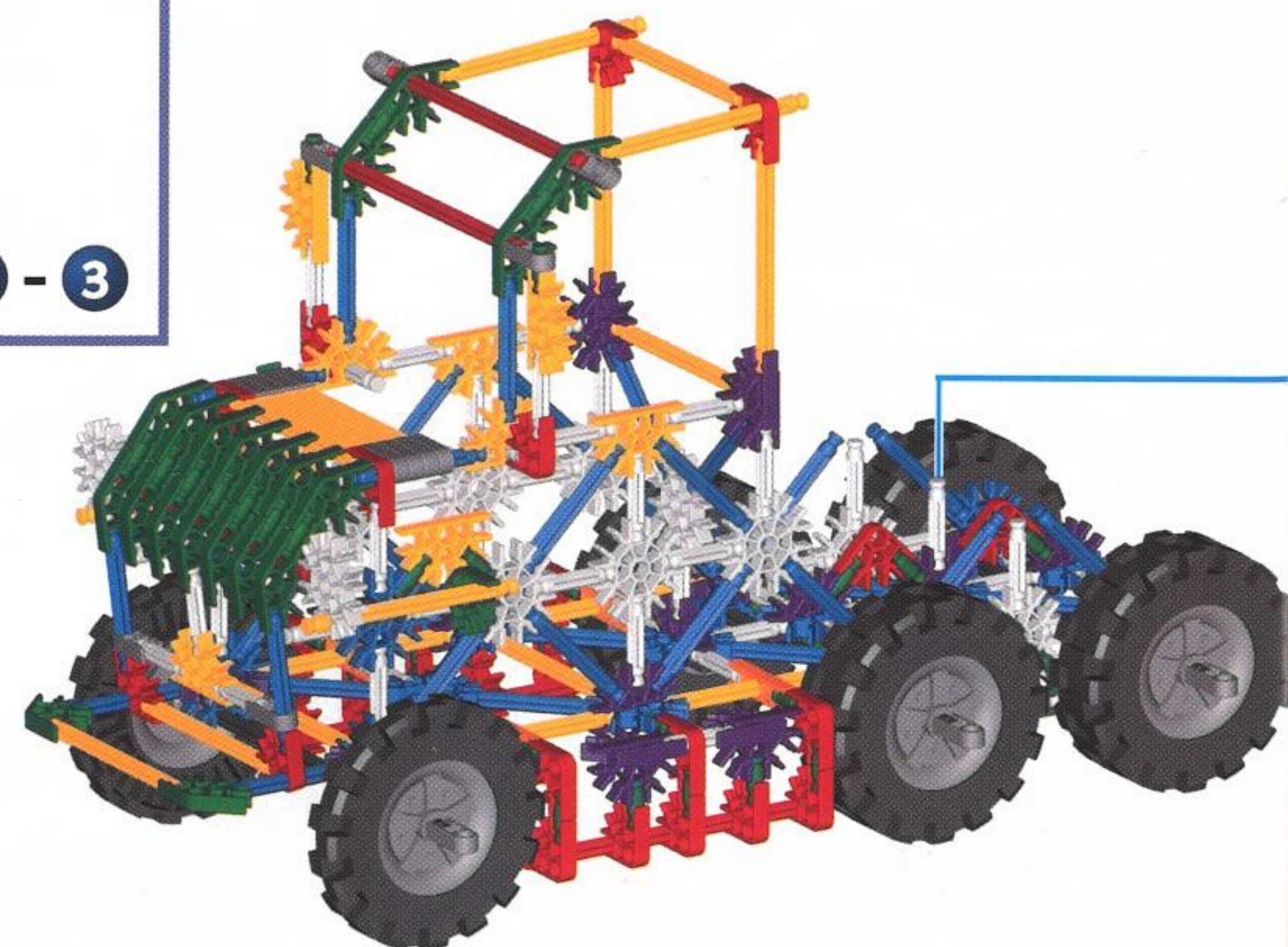
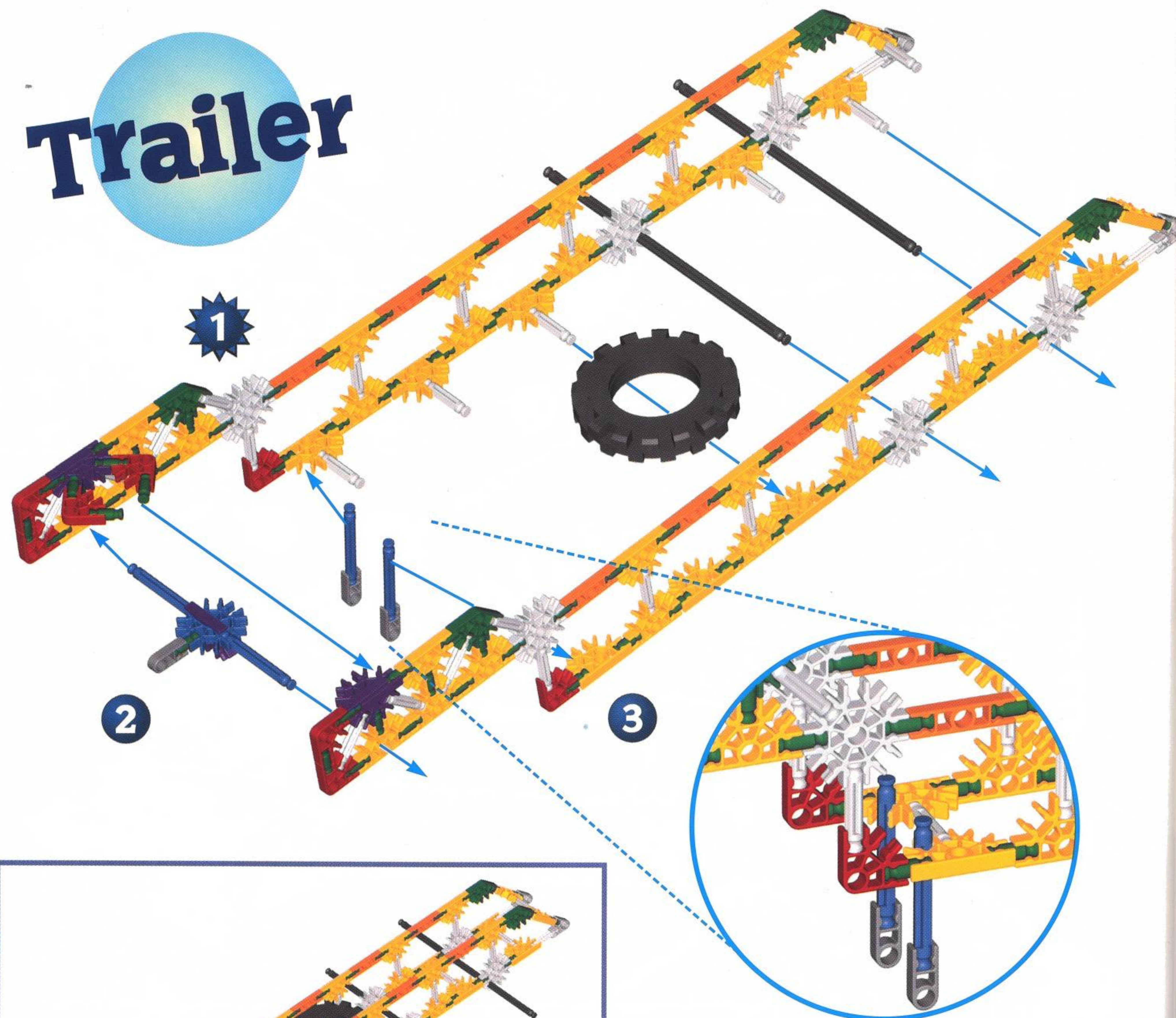
15



1 - 15

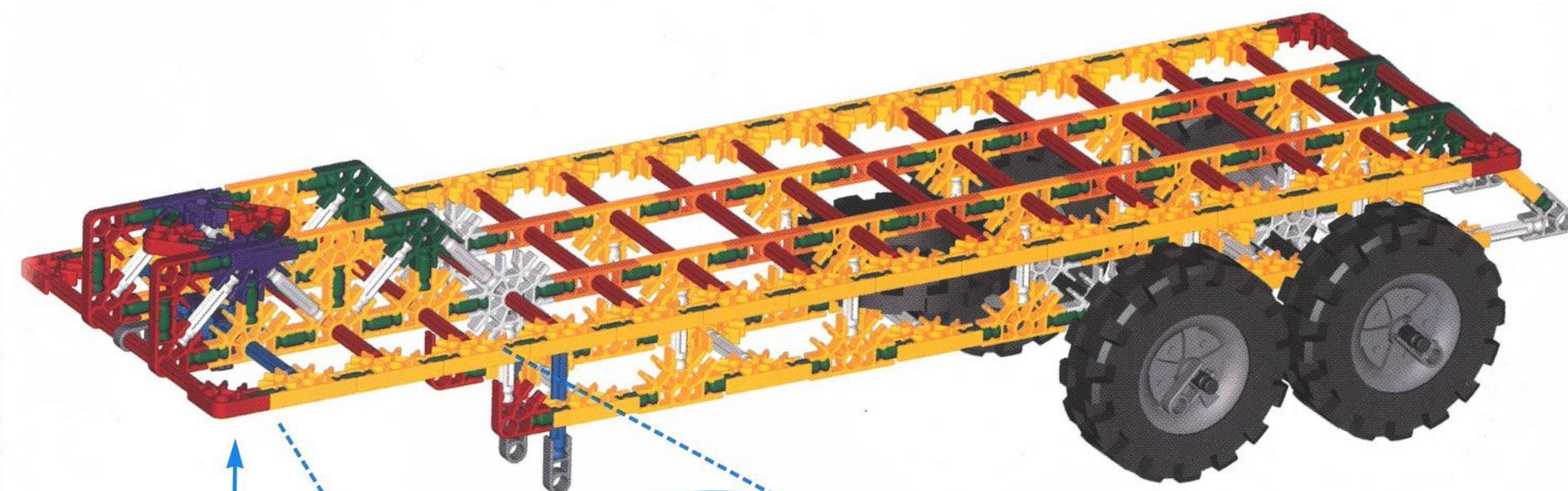
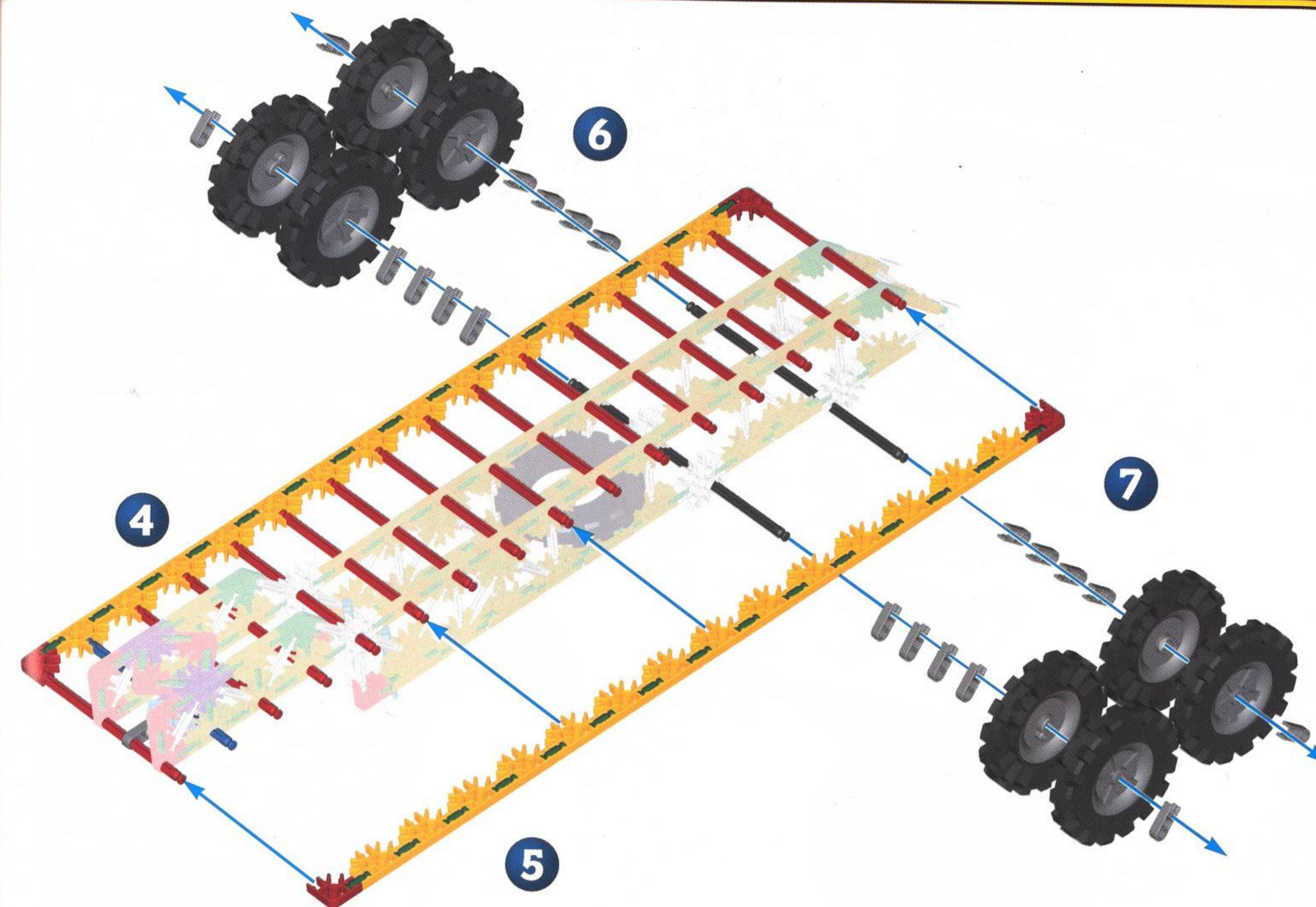
Everybody likes to build Bulldozers. Maybe that's because they are such an important part of building in real life. This one looks as if it could really move some big loads!

Trailer



You will need these parts

23	105
10	28
2	4
12	15
4	2
66	9
5	1
1	6
6	8



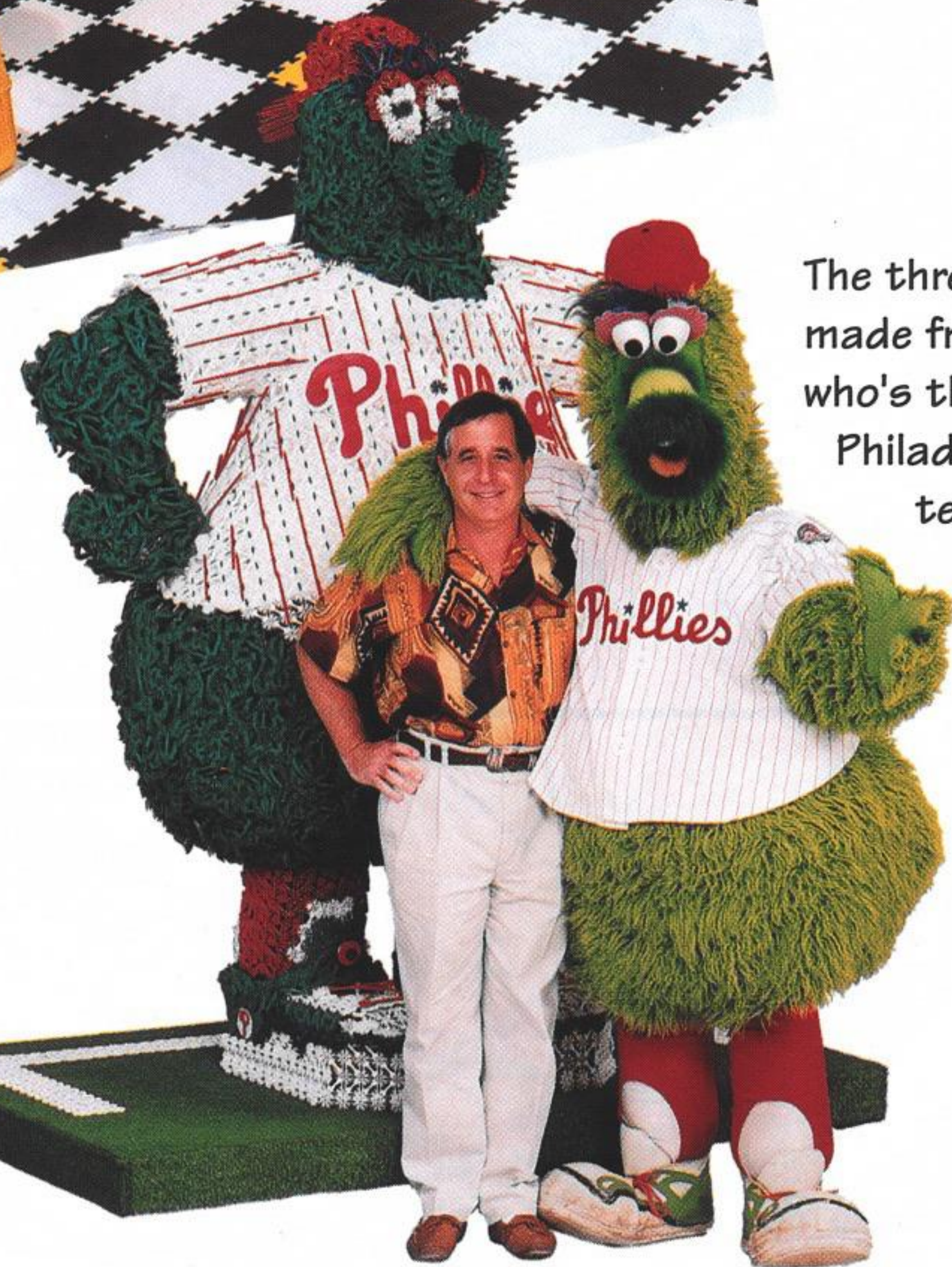
You can load the Bulldozer (page 38) on this trailer and take it to the next work site!

Hook your trailer to the Heavy Hauler using the blue-purple connection from step 2 on page 42.



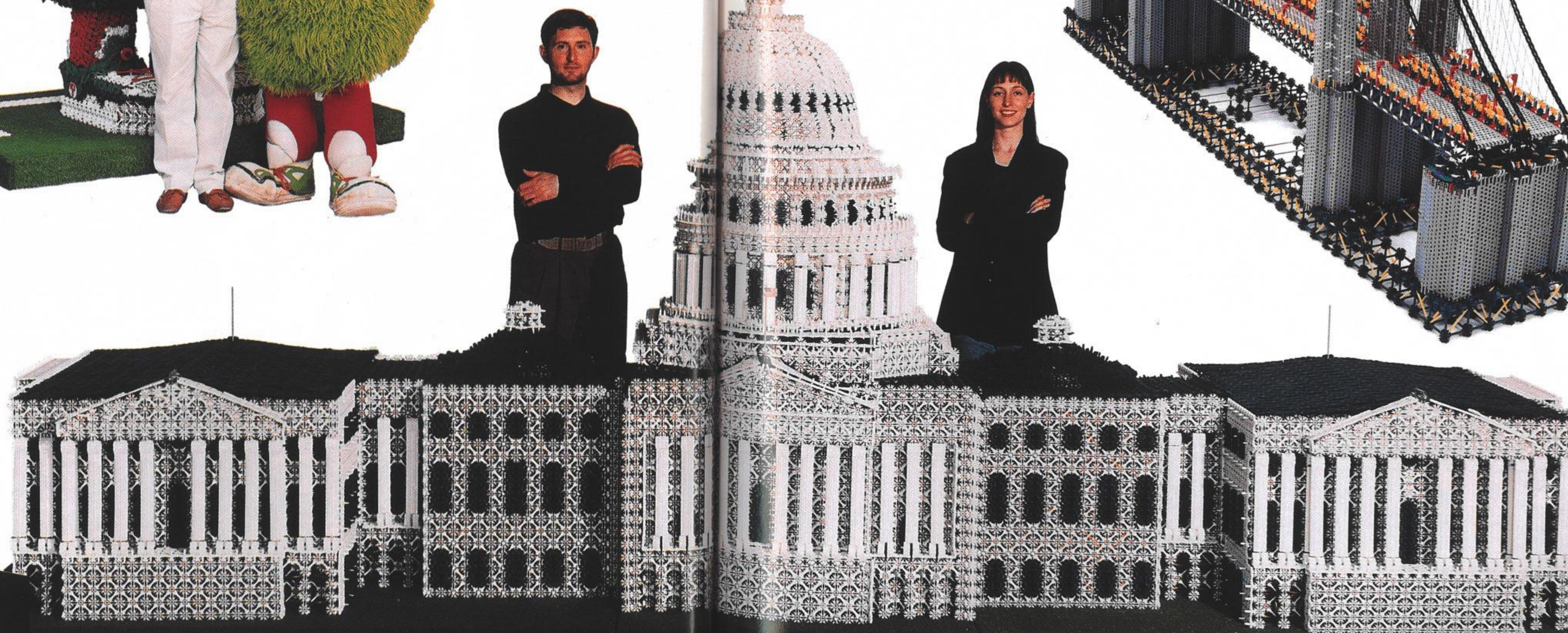
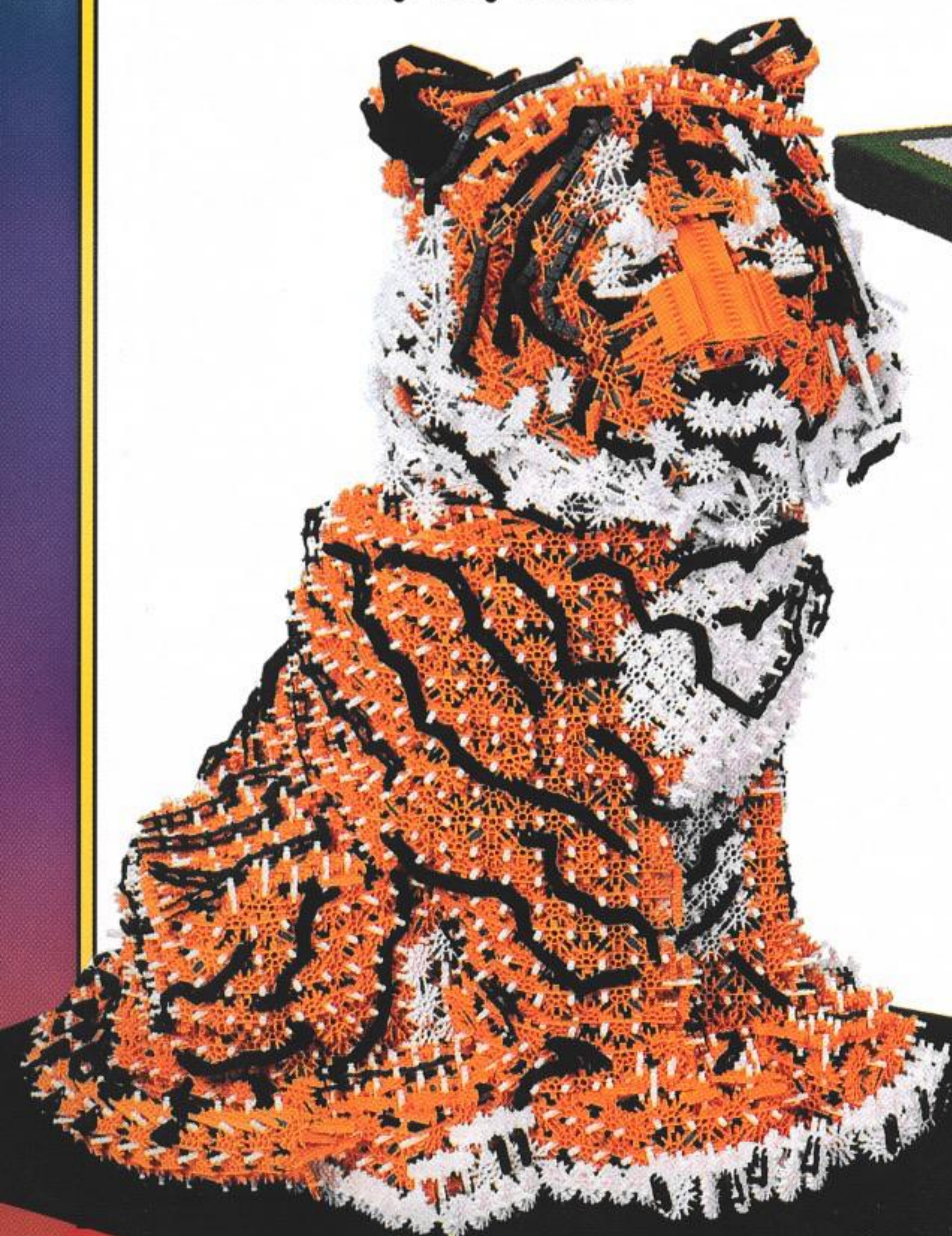
Display Models

A scene from K'NEXploration™, the traveling K'NEX exhibit that visits museums and various sites around the United States.



The three Phanatics – the biggest made from K'NEX, the fuzzy one who's the mascot of the Philadelphia Phillies baseball team, and Joel Glickman, the inventor of K'NEX.

He's big, but this Tiger is not really scary. Made from over 29,000 K'NEX pieces, he's really very tame.

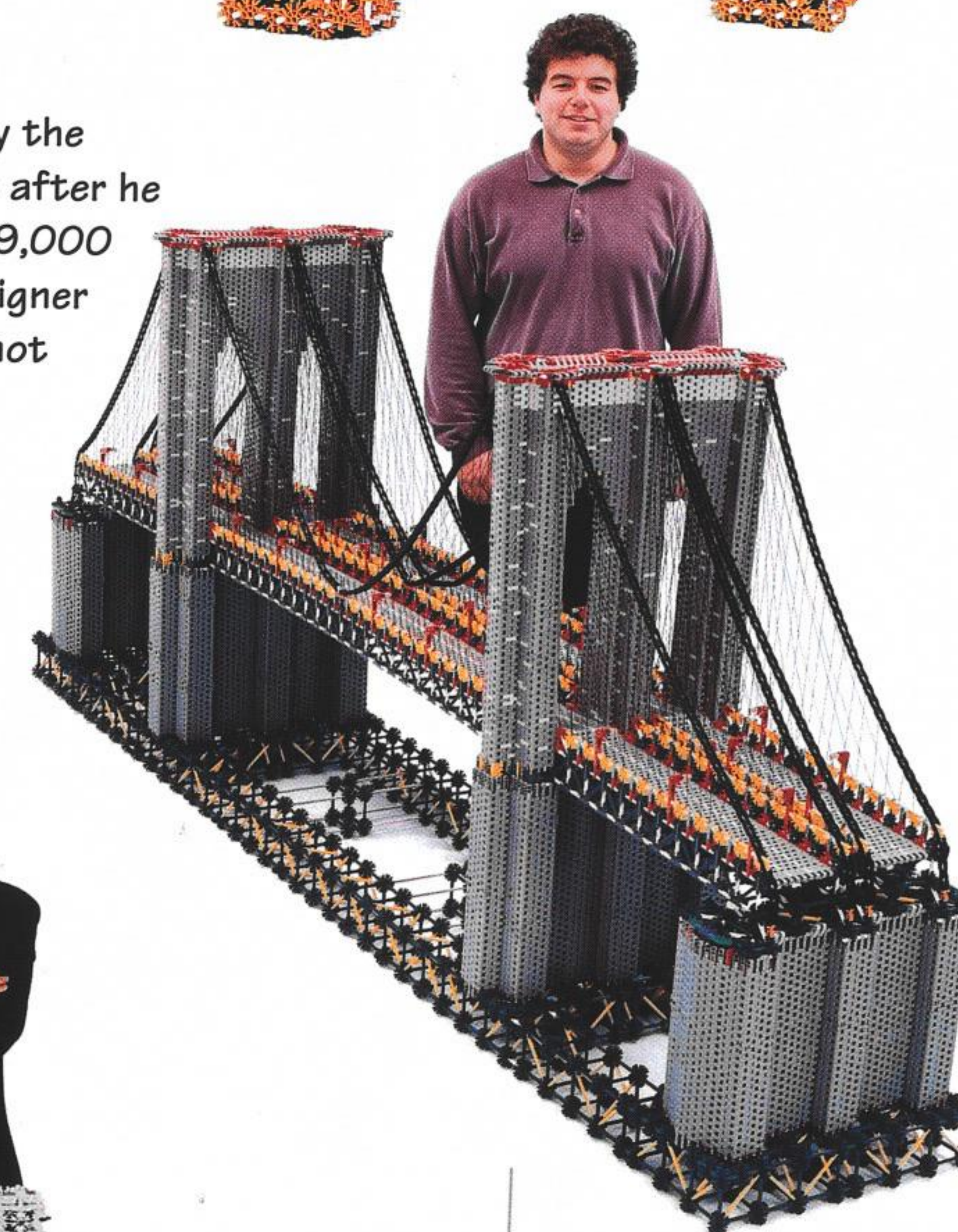


A really imposing building is the U. S. Capitol, built by designers Brian Ginder and Katrina Probst from nearly 514,000 Rods and Connectors. The building is 8 feet high and 17½ feet long!

After all the work she put into designing and building the 36,000-piece Lion, Katrina Probst deserves a rest! As in all K'NEX models, none of the pieces are glued -- they just snap together and stay there!



You may want to buy the Brooklyn Bridge, but after he worked putting all 39,000 pieces together, designer Mark McCormick is not about to sell it!



Here's an old-fashioned Cigar Store Indian, who seems to be guarding the door. He's built from more than 5,500 K'NEX pieces.



Doll House

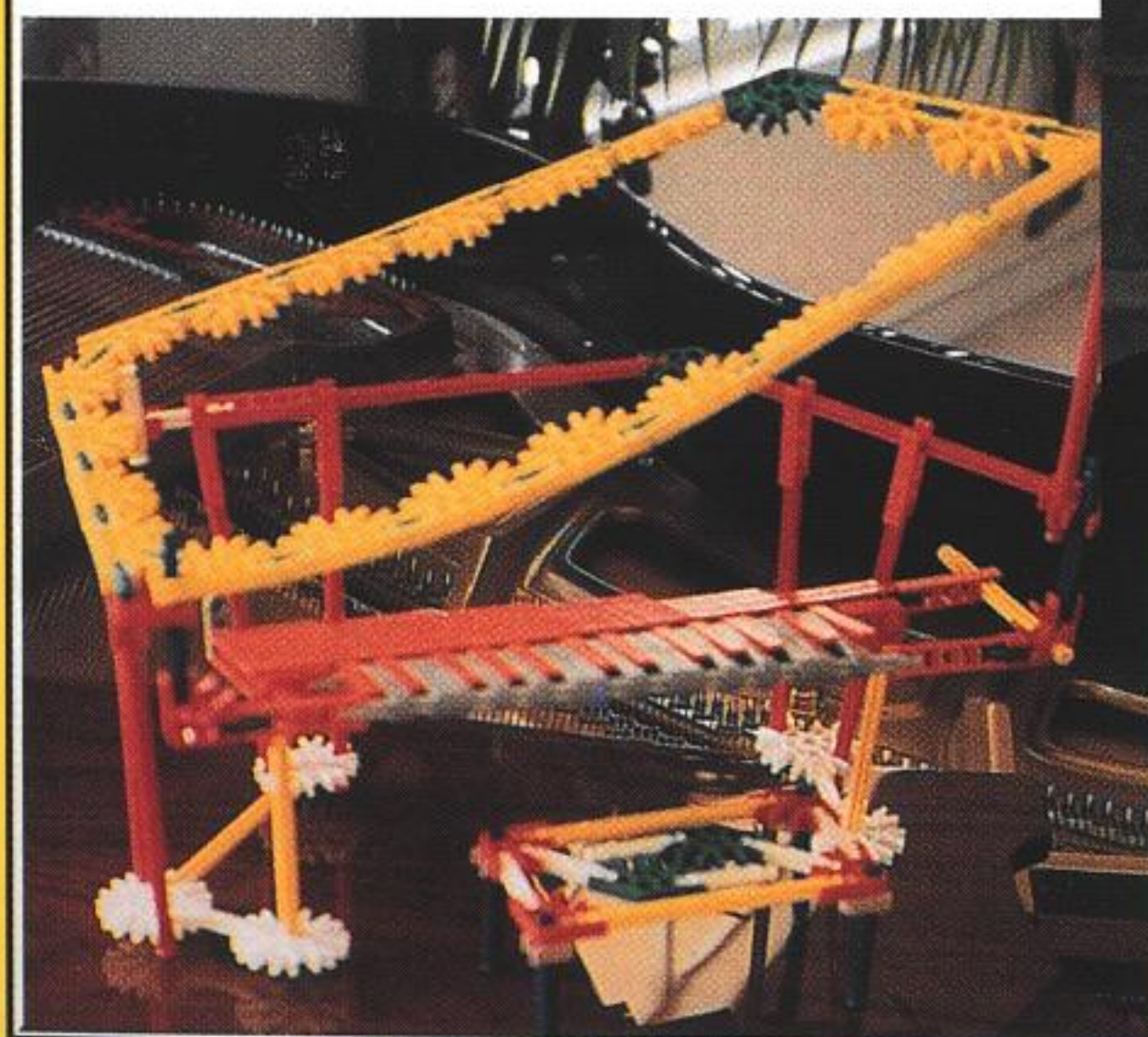
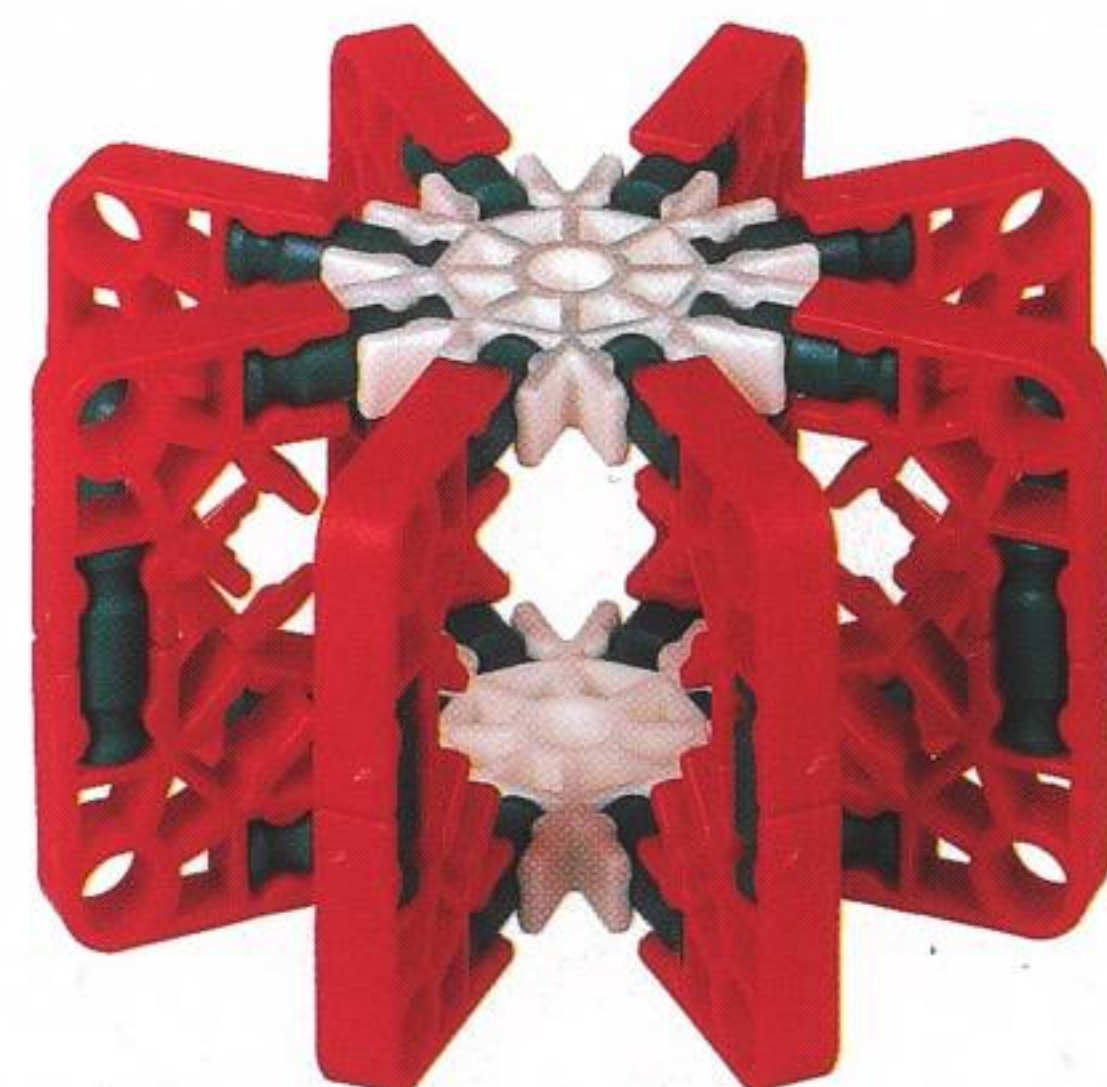
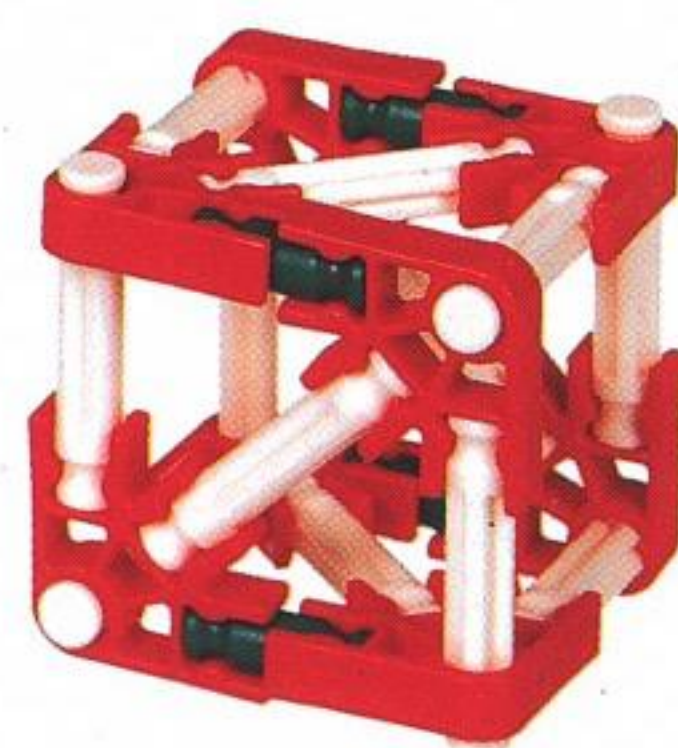
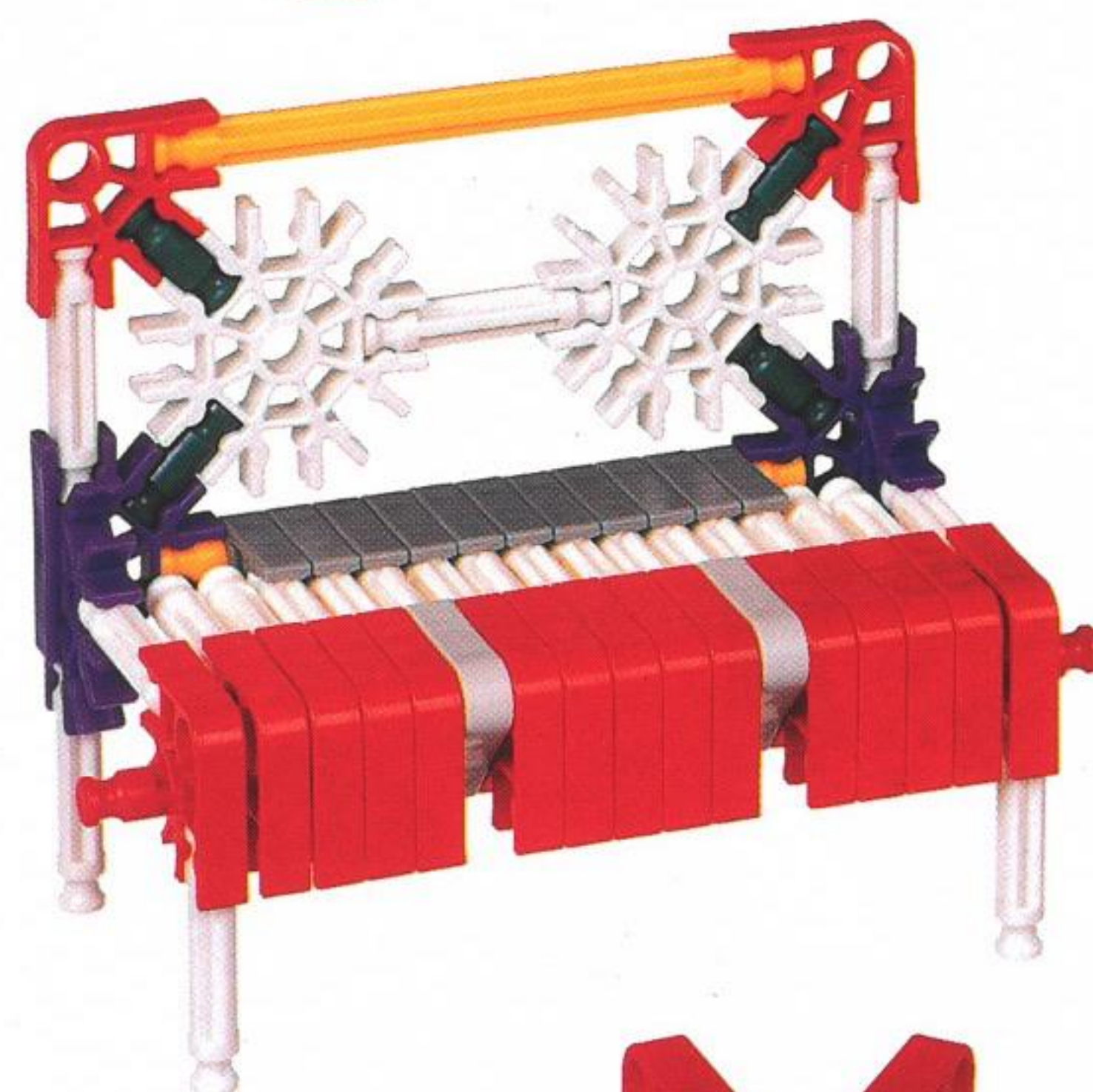
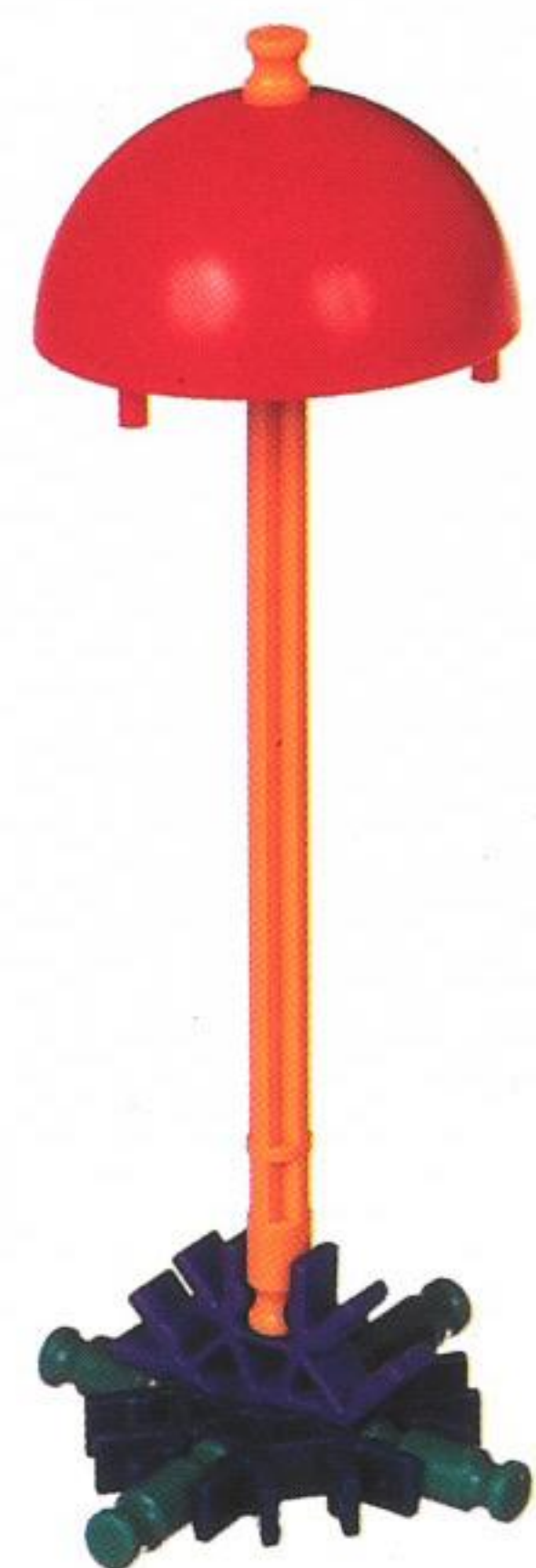


Whoever lives in this house certainly lives a life of luxury. Do you see the gym? The television? The barbeque? Think up ideas of other things you'd like to put in your house and build them!



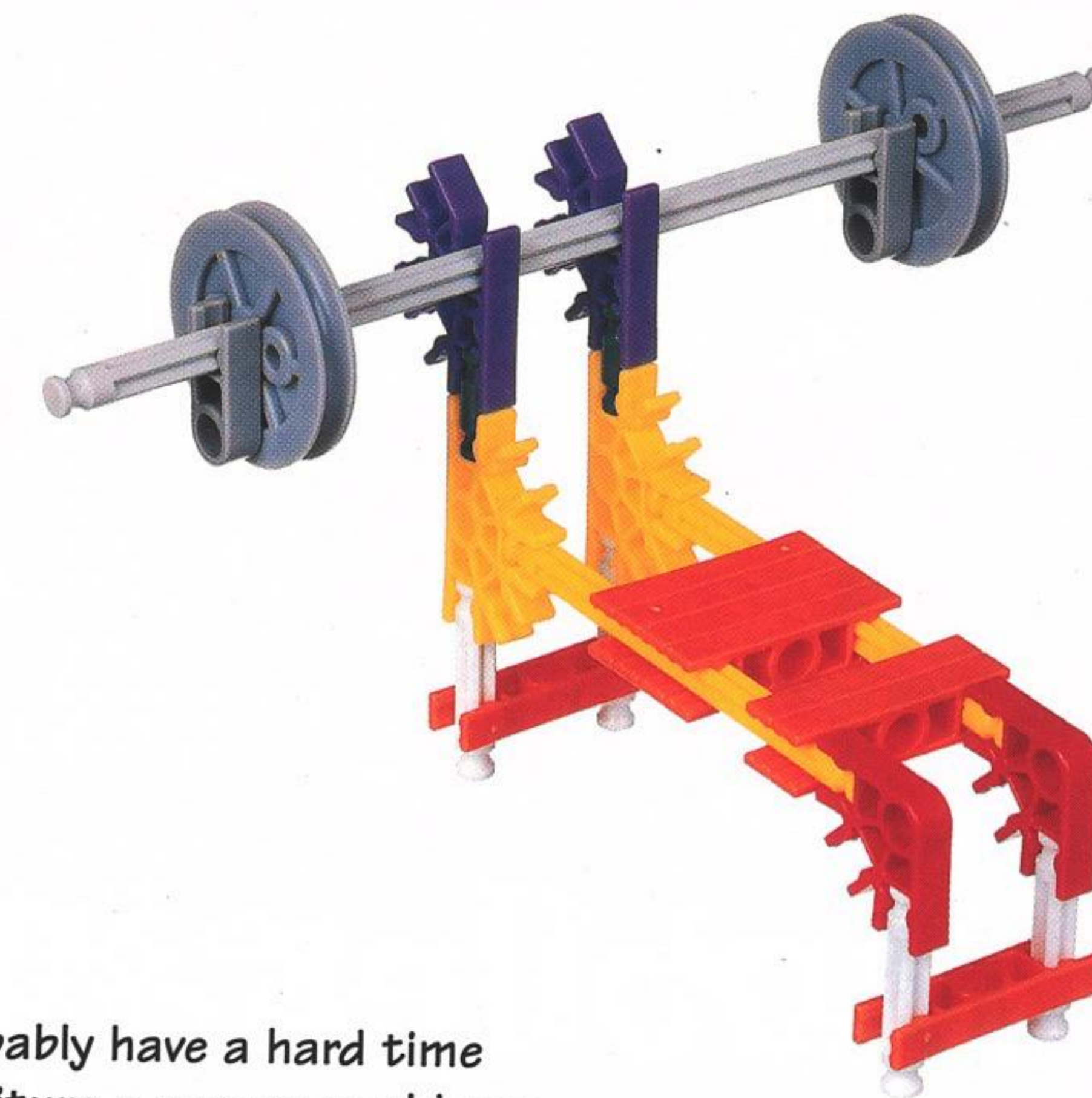
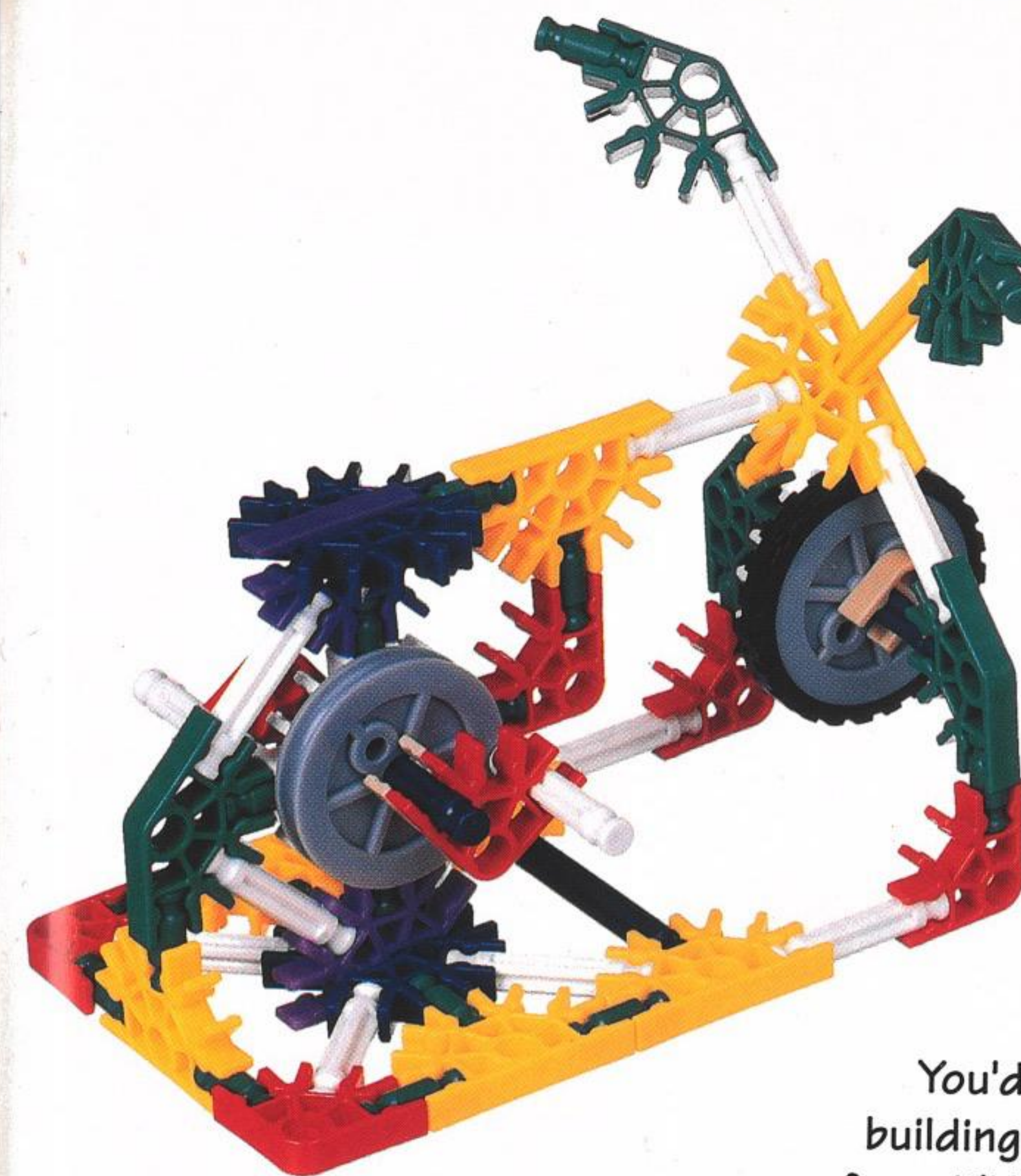


Furniture

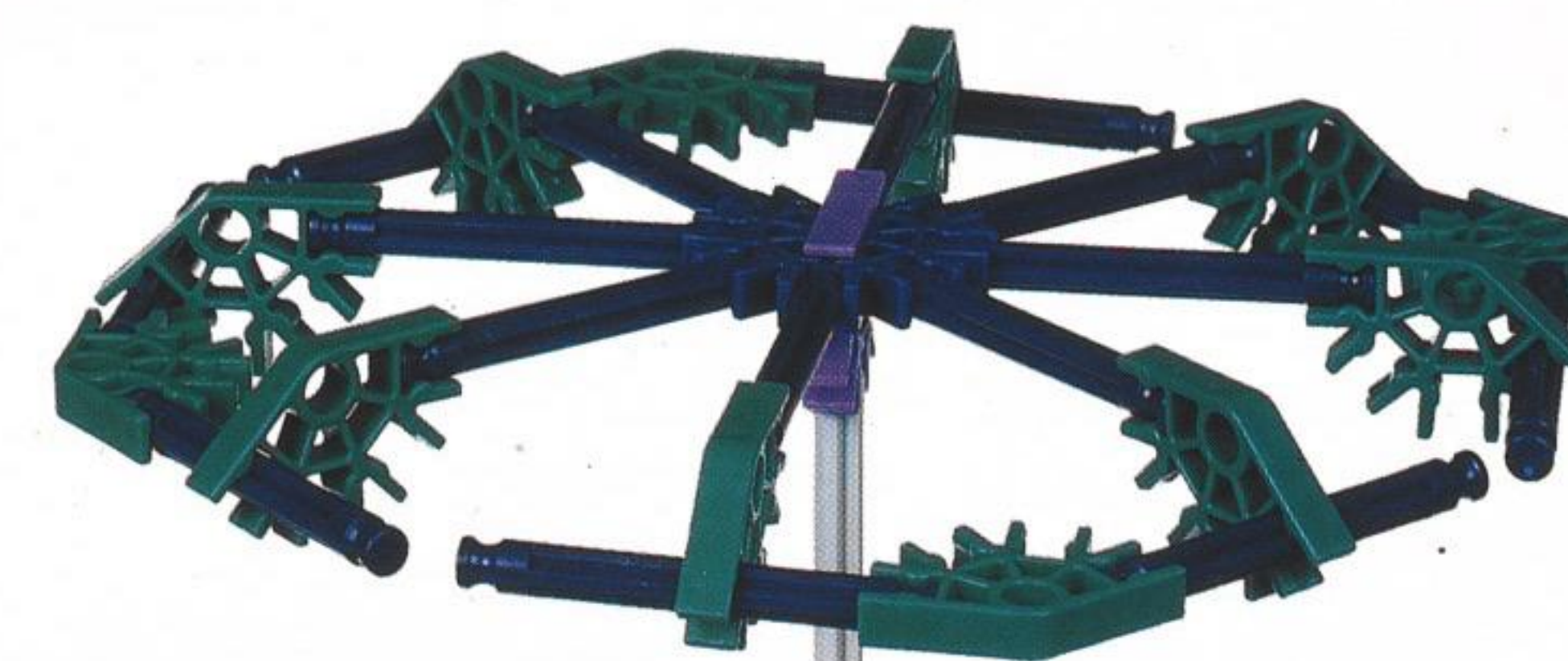


Daniel Mendelson, age 8, Cooper City, FL

A masterpiece composed by Daniel Mendelson. This K'NEX Grand Piano includes sharp and flat keys and a bench.



You'd probably have a hard time building furniture a person could use from K'NEX (although it's been done by our design experts here at K'NEX). Instead, try building furniture on a smaller scale for some of the creatures and figures you already have.



Mobles

Mobles are really fascinating things. You can't just put any parts together, because they must be evenly balanced or Mobles don't hang properly. Try designing your own, either completely symmetrical or with different combinations of parts that weigh the same. You'll need to put your thinking cap on for this one!

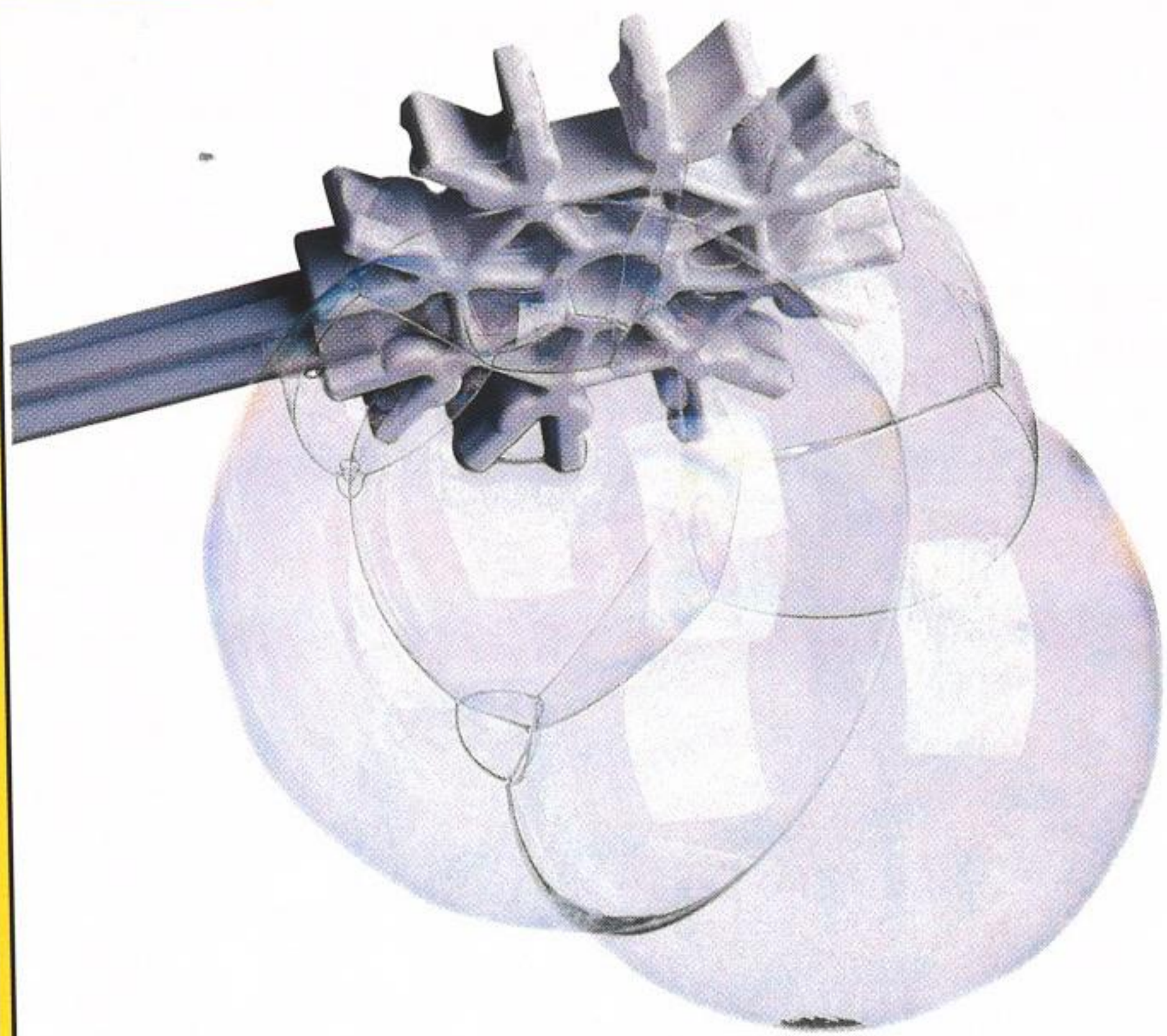


CAUTION:

Because K'NEX has small parts, it is not suitable for children under 3 years.

Do not hang mobles in rooms of or in reach of infants or children under 3 years.





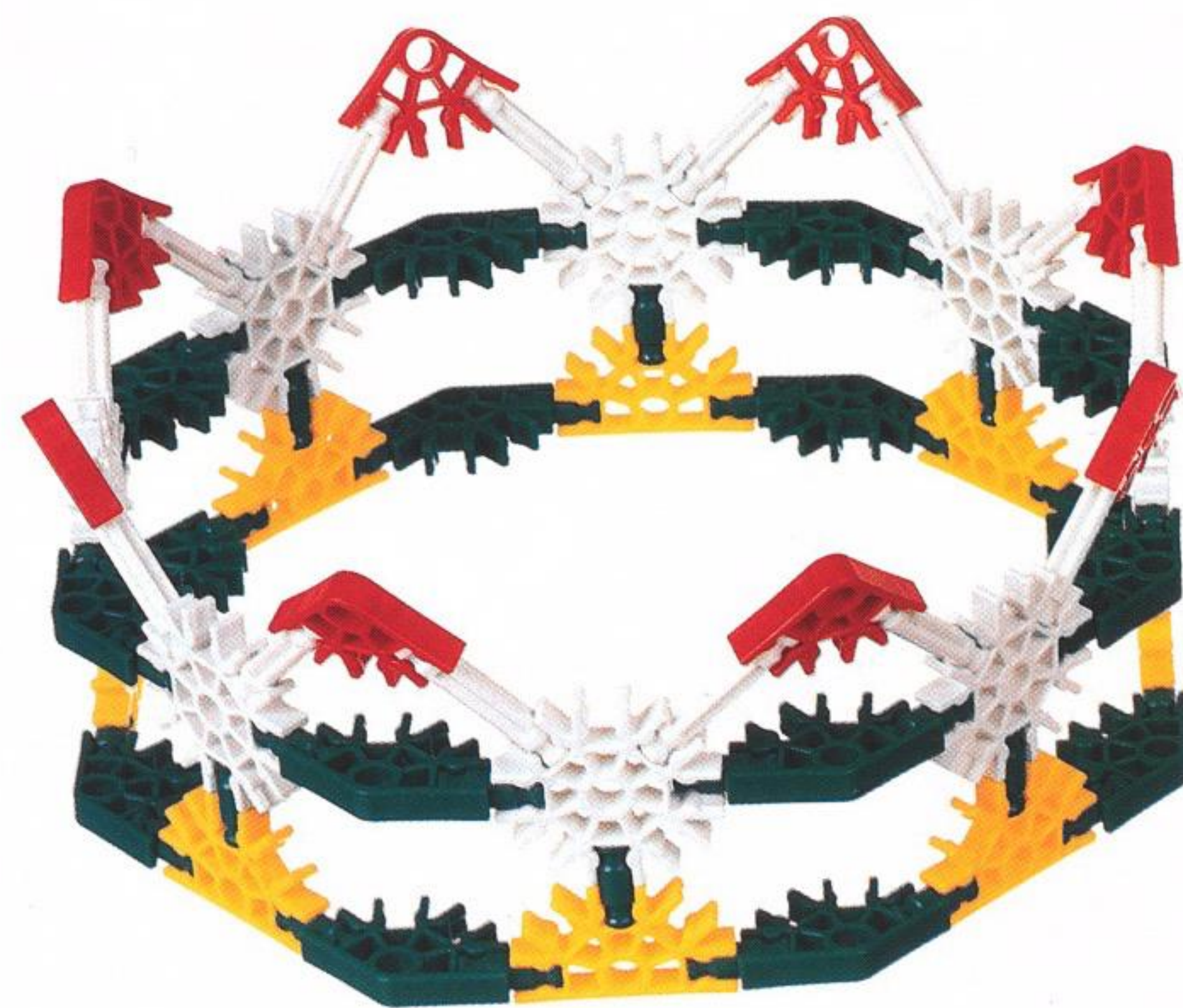
You've used the bubble liquid from the store with a plain round wand. Now's your chance to get really creative. Just use the bubble liquid with one of these K'NEX wands, or one you design yourself.



Bubble Wands

Always wanted to be King, Queen, Prince, Princess? Here's your chance! Design your own Crown with K'NEX.

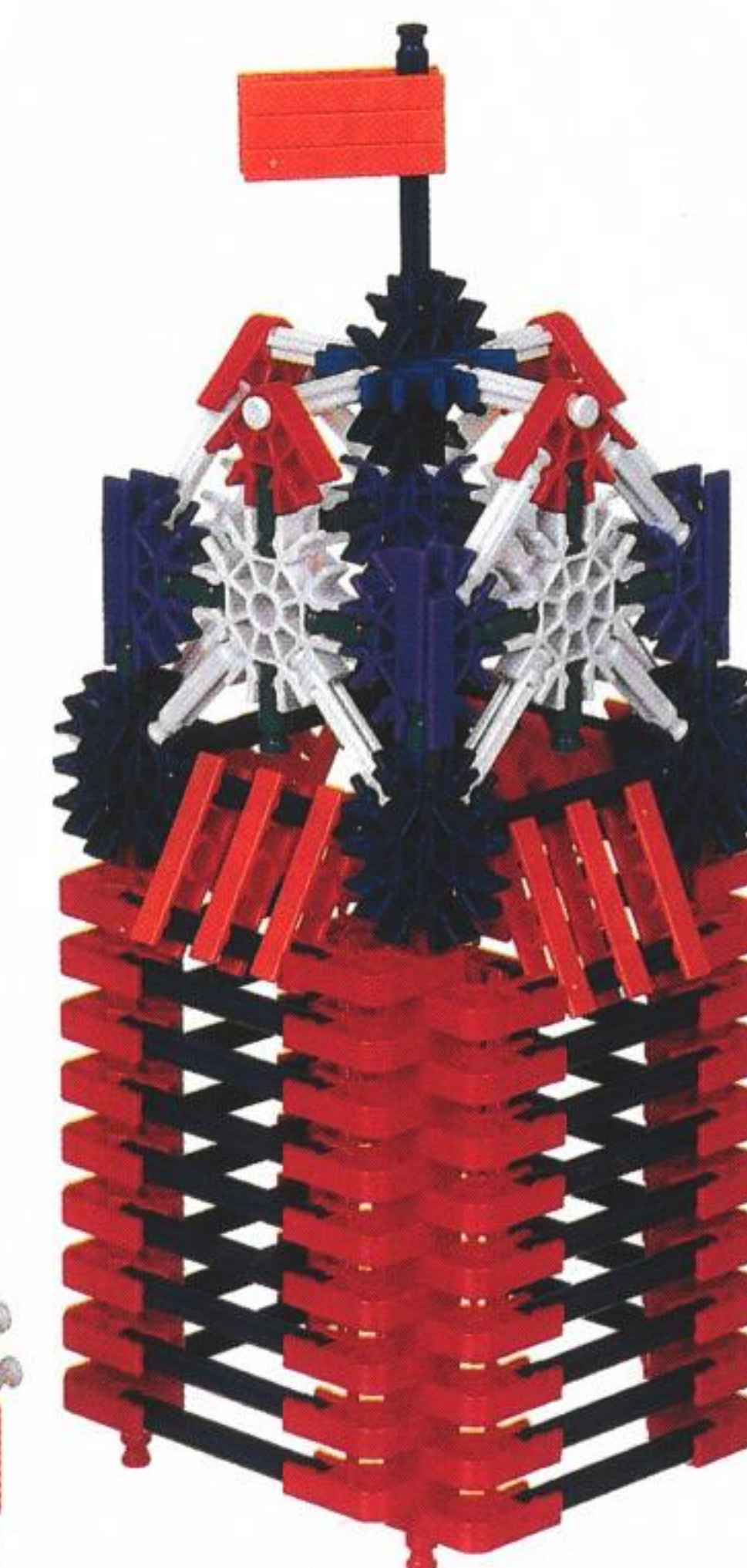
Crowns



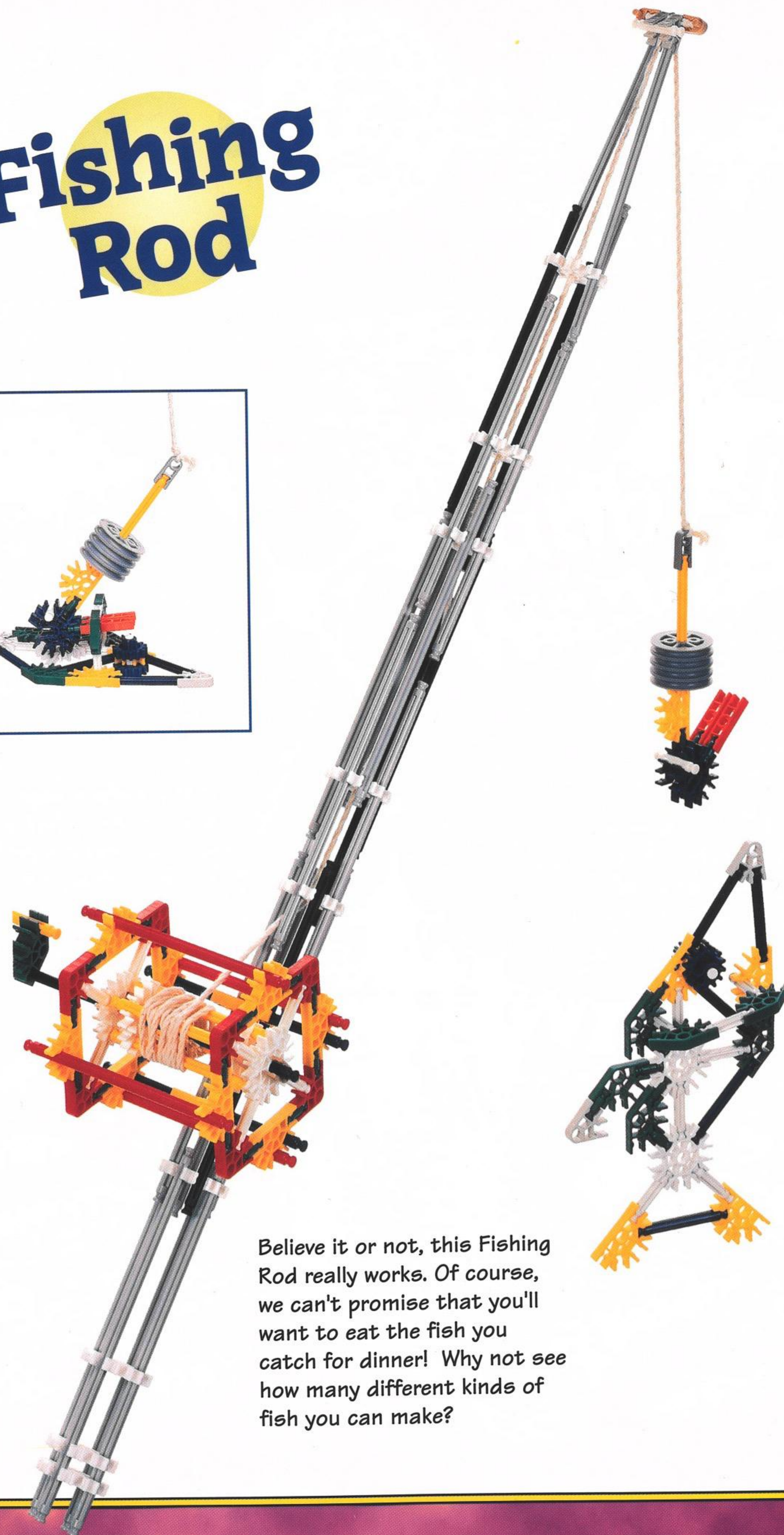
Chairs



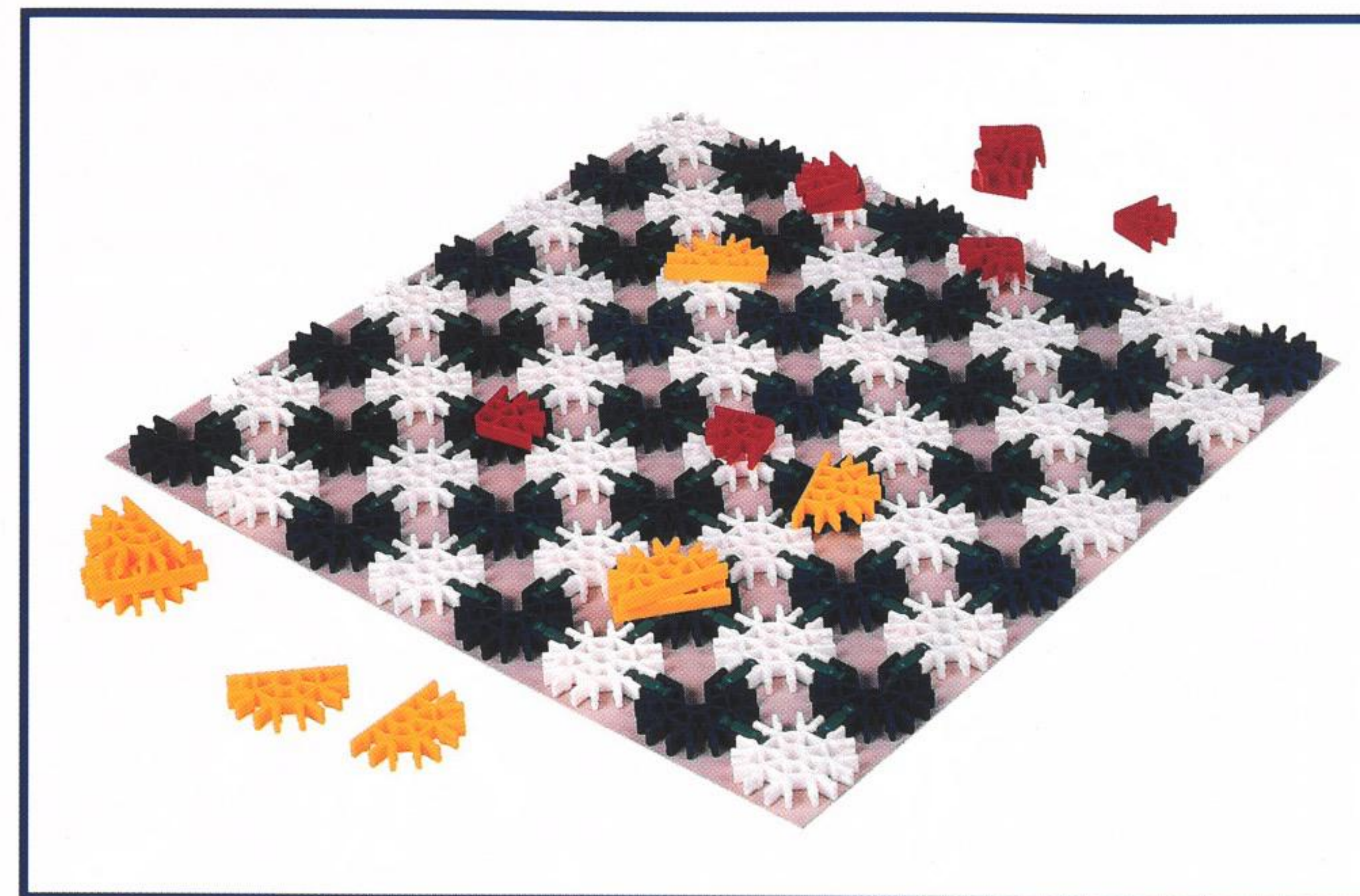
Here's a whole page of Chairs and Benches. Build 'em big, build 'em small, build 'em any way at all. Use some really creative ideas.



Fishing Rod



Believe it or not, this Fishing Rod really works. Of course, we can't promise that you'll want to eat the fish you catch for dinner! Why not see how many different kinds of fish you can make?



Try Checkers - it's a simple game to build. And if you're really ambitious, try to build a Chess Set.

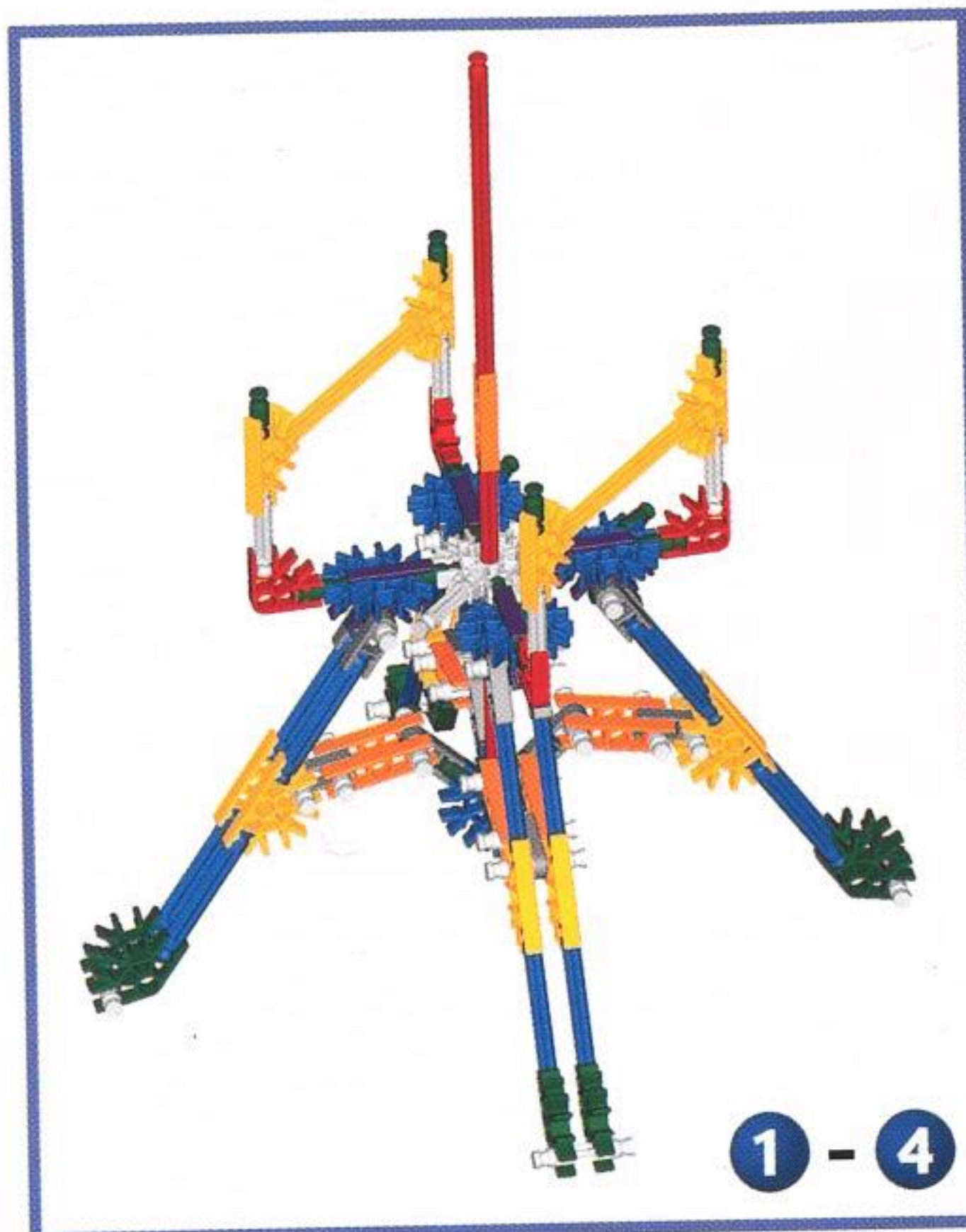
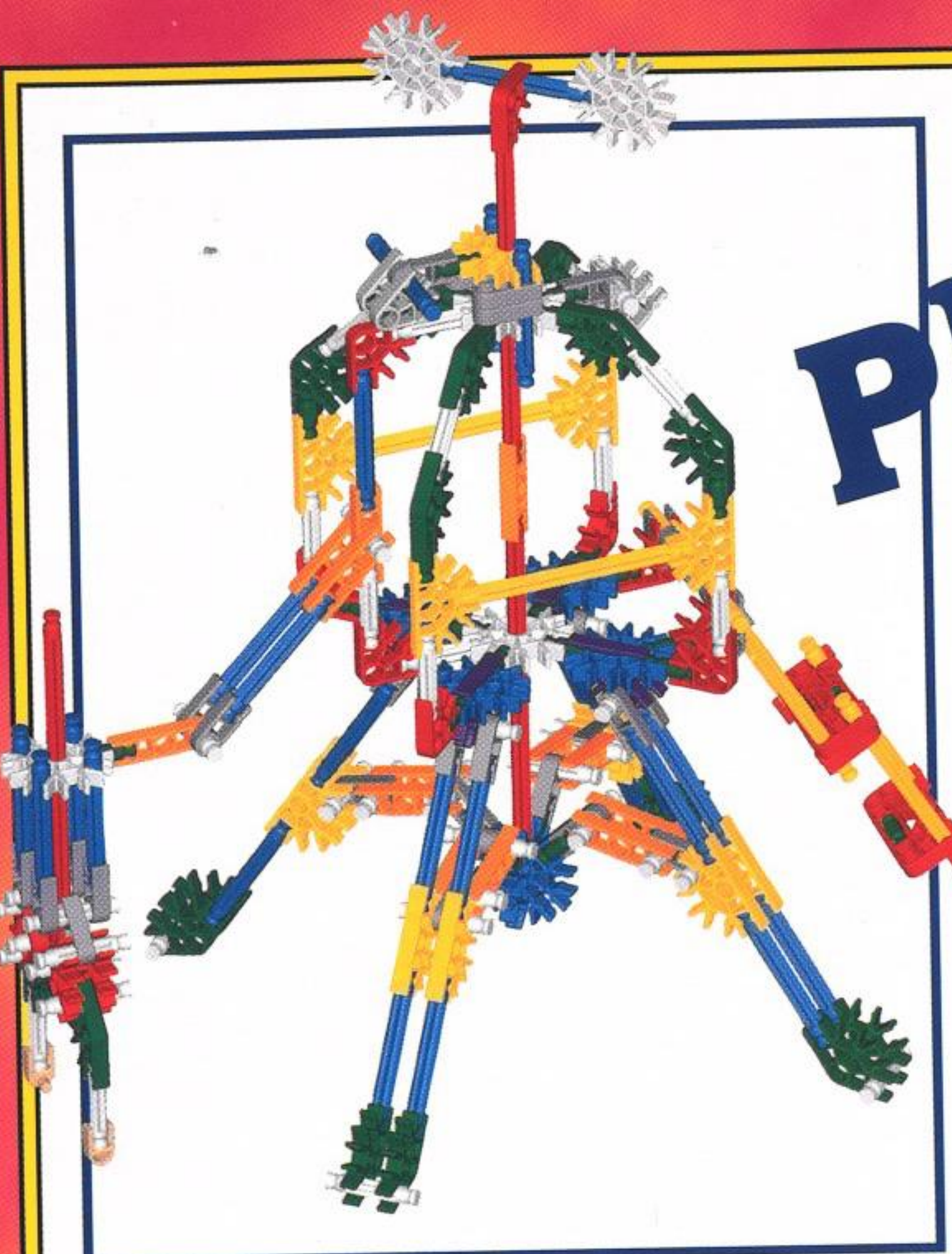
Some really beautiful ones have been made from K'NEX.

Games



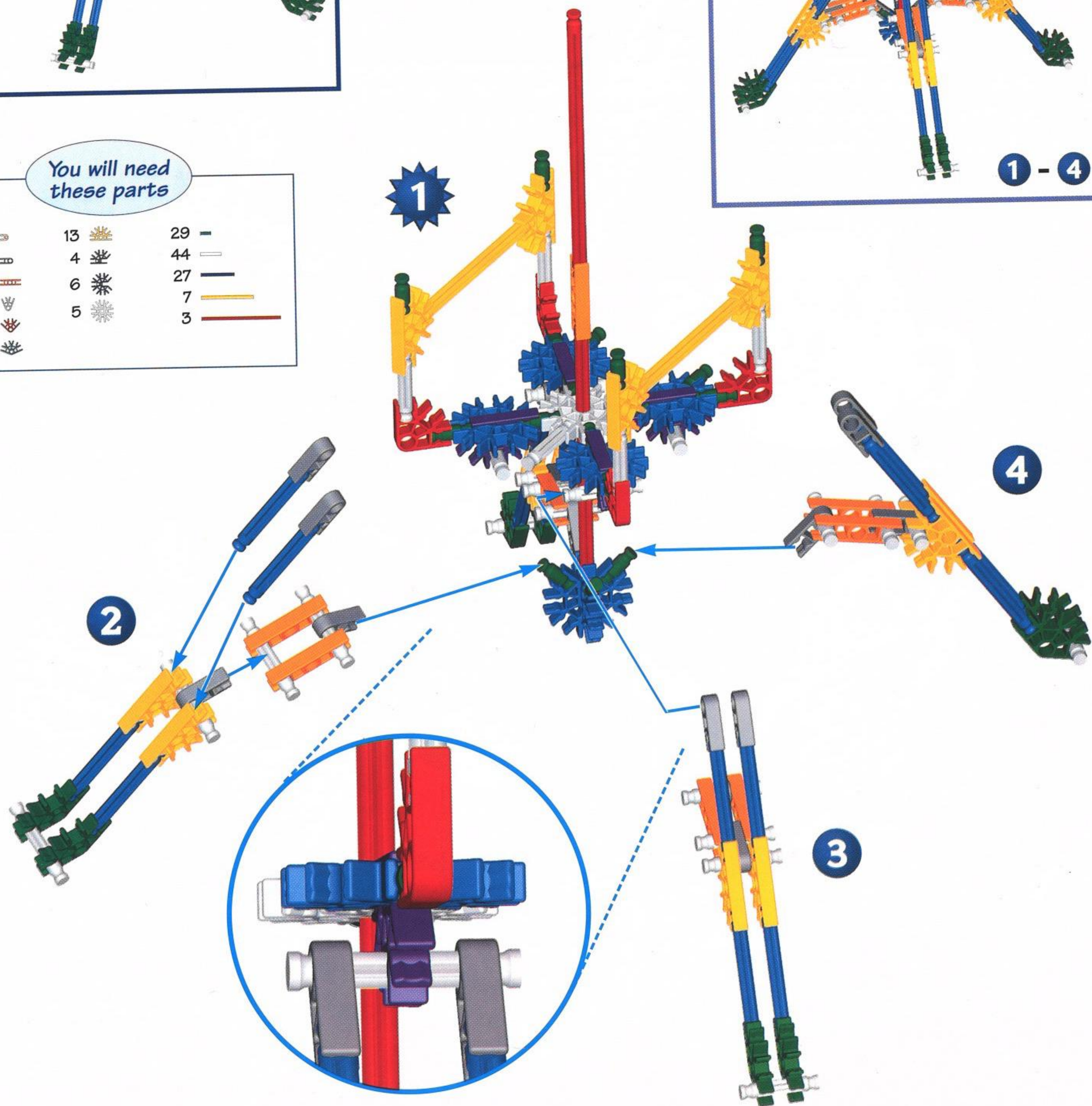
Of course, if you're the athletic type, you'll want to get into a fast-paced game of Croquet.

Planetary Probe

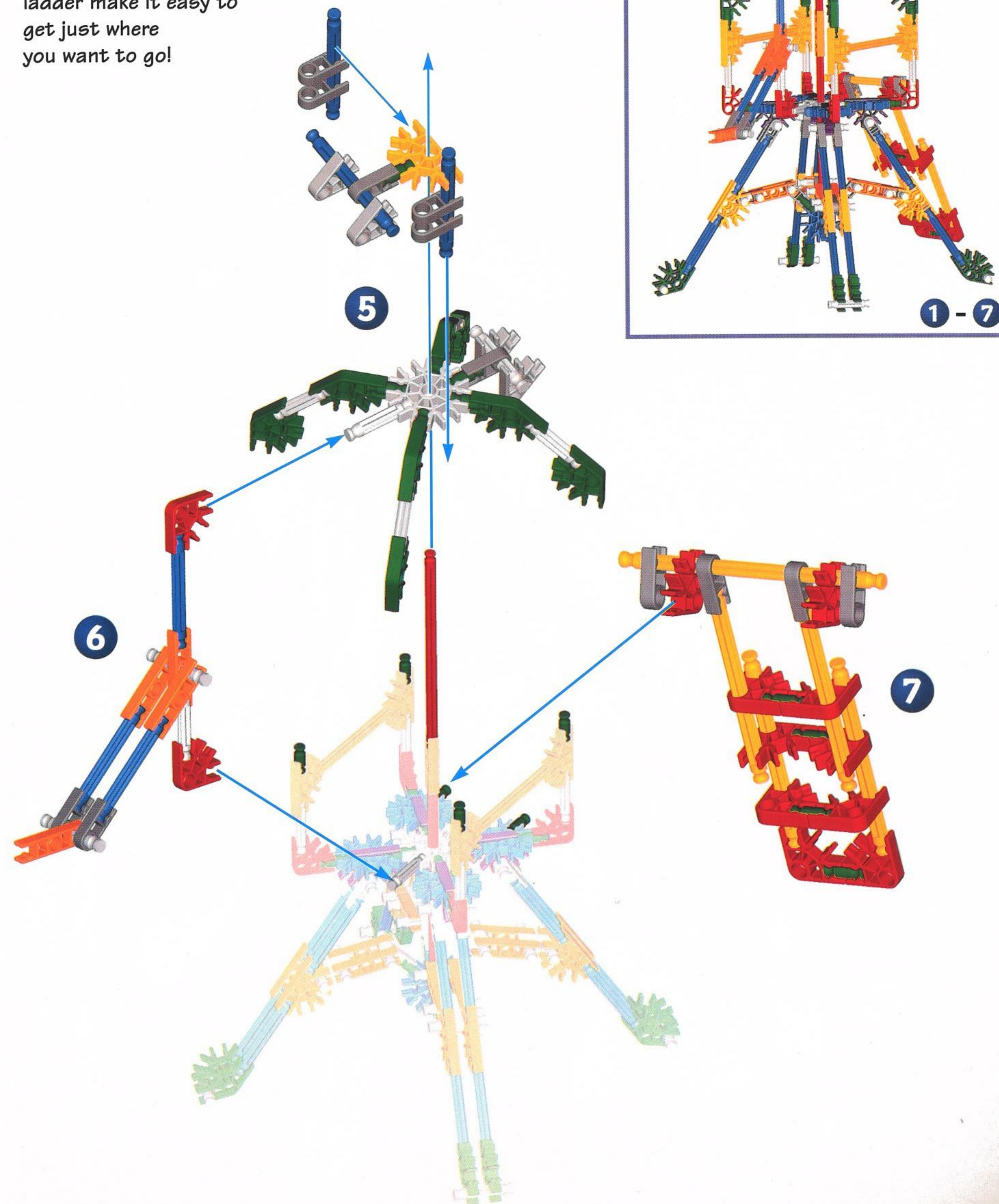


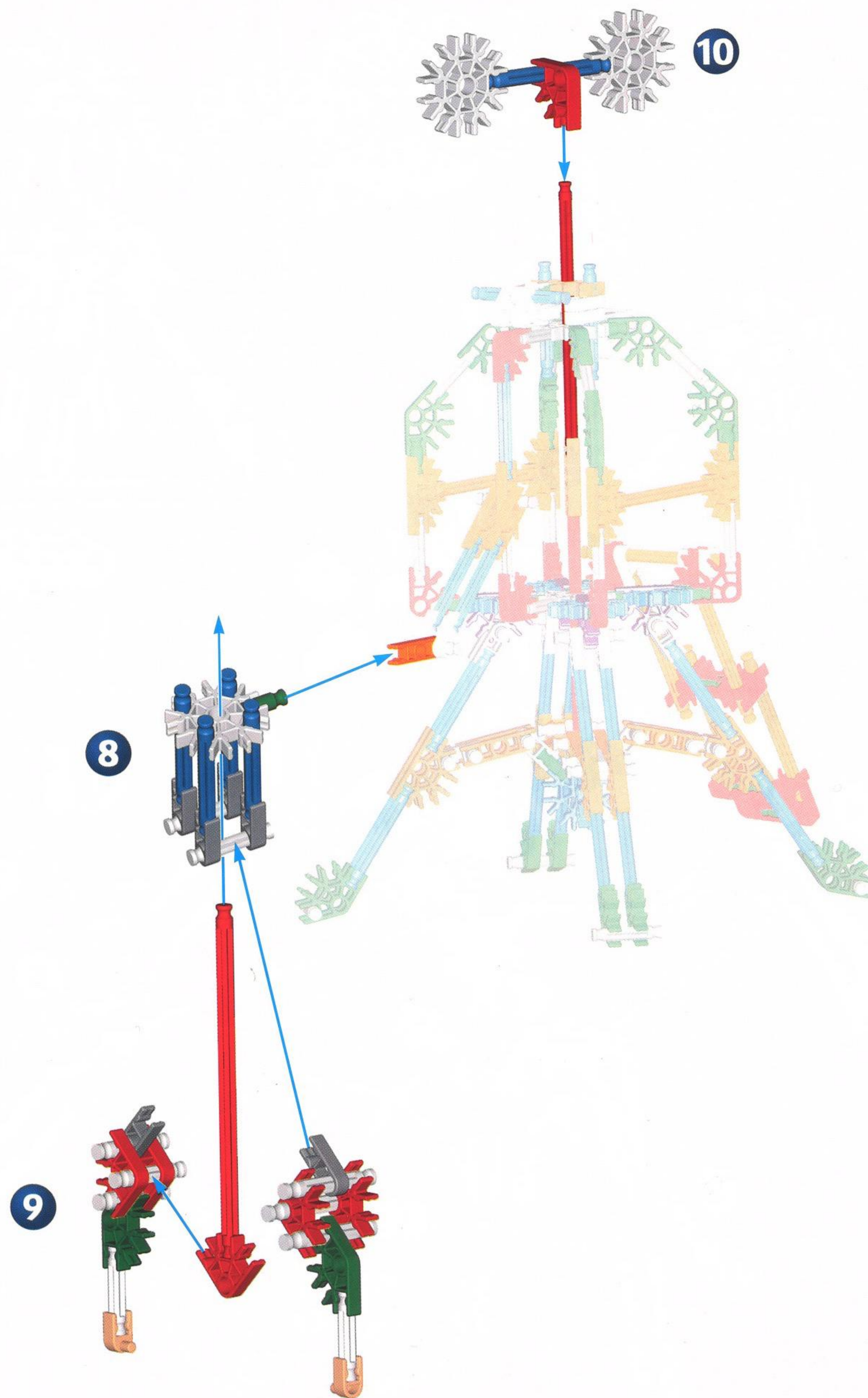
You will need these parts

2	13	29
34	4	44
13	6	27
4	5	7
22		3
18		



Whichever planet you plan to probe, this is just the right space vehicle! The arm ends in a space claw just made for retrieving samples. And the retractable landing gear and ladder make it easy to get just where you want to go!

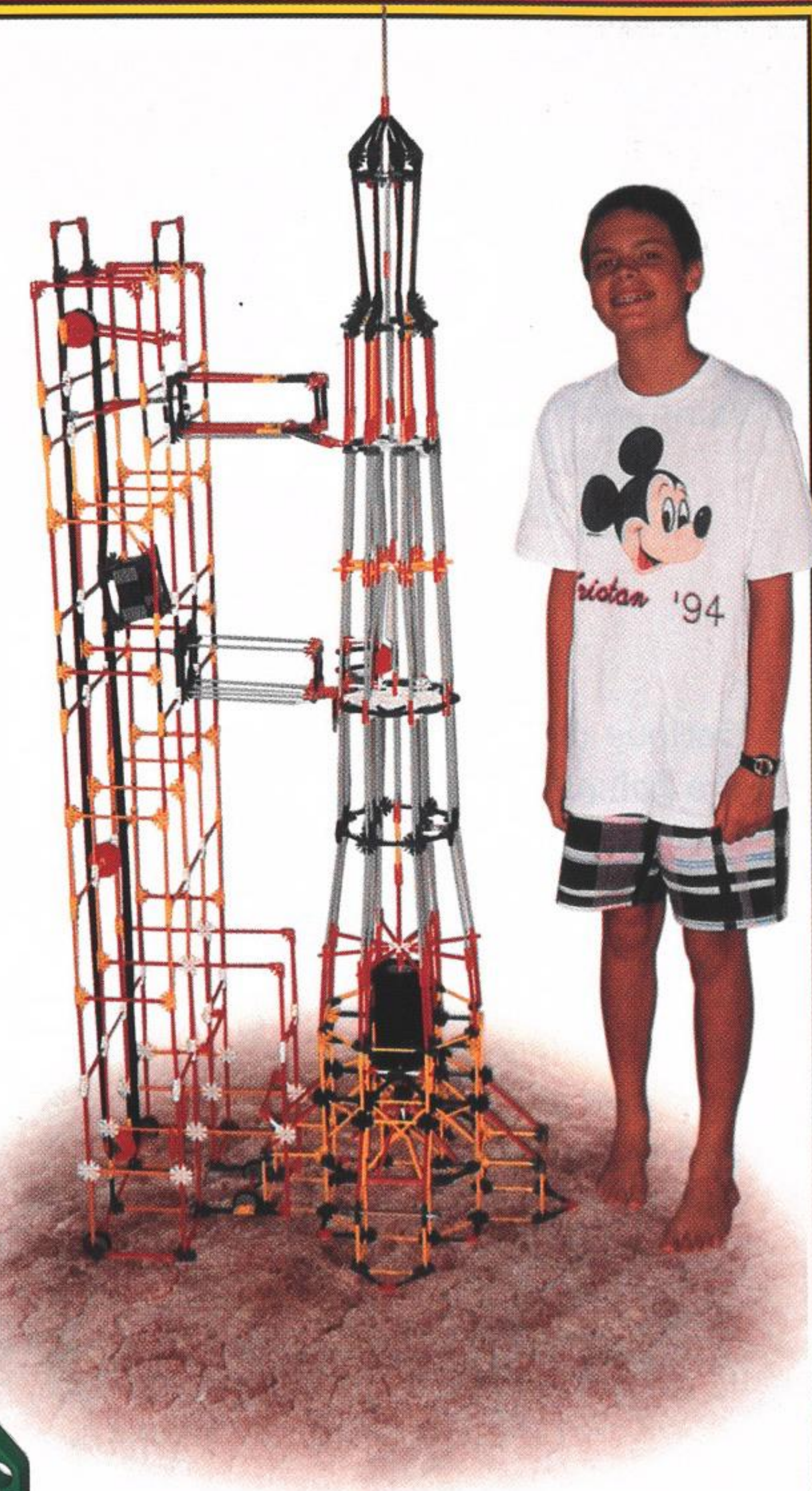




Tristan Martens, age 12, Milwaukee, WI
 Four, three, two, one, BLAST OFF!
 Tristan Marten's K'NEX version of
 Apollo 13 is ready for its voyage into
 orbit. Constructed from over 1400
 pieces, the K'NEX mission is sure to
 be a success.

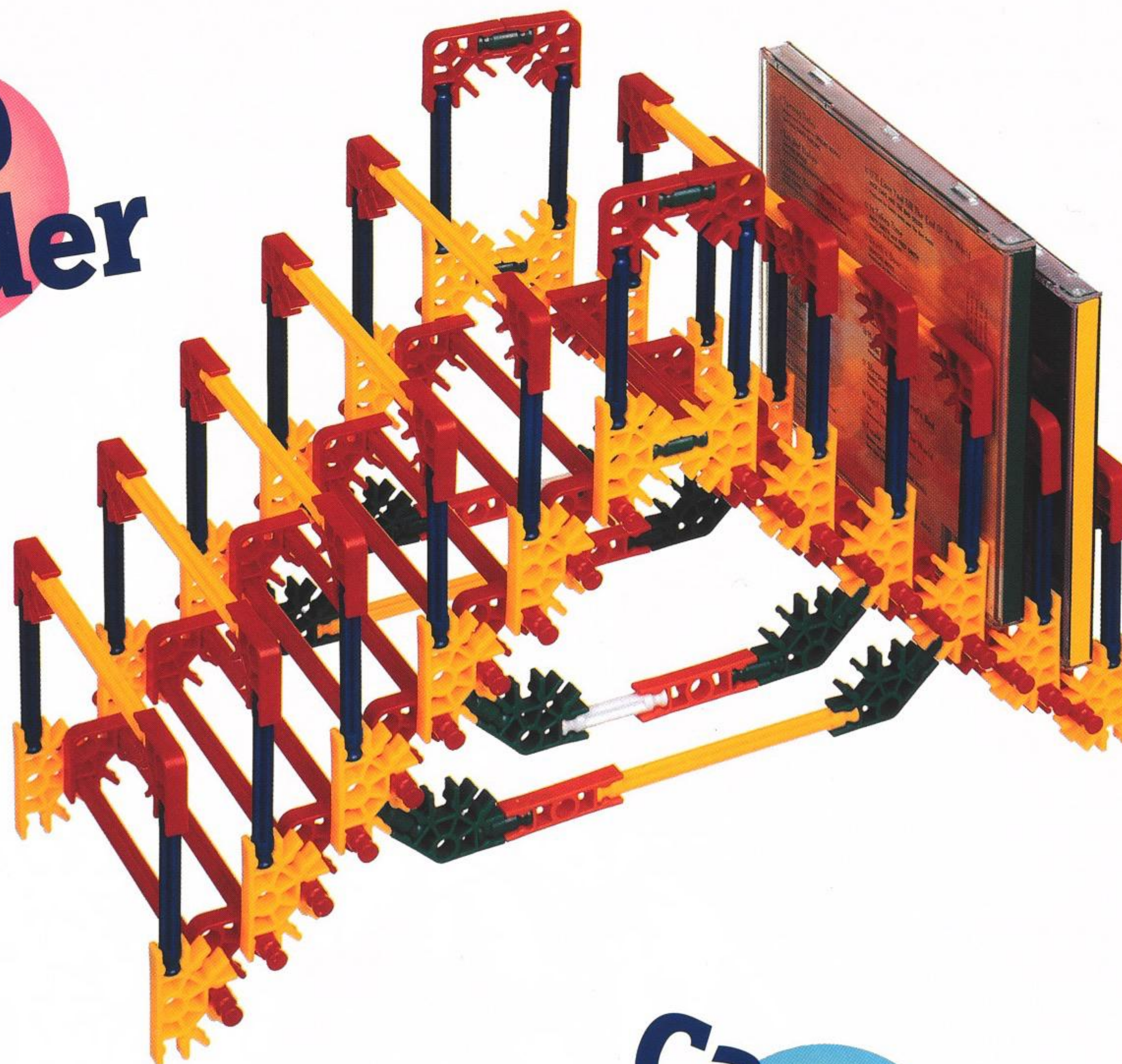


1 - 10



CD Holder

Serious music fans are going to need several of these K'NEX CD Holders. Like most things, there are many ways to build them, so use your own good ideas and see what you can come up with.



Cassette Holder

So you have more tapes than CDs? Build just as many Cassette Holders as you need, in as many ways as you want to build them.



Frames

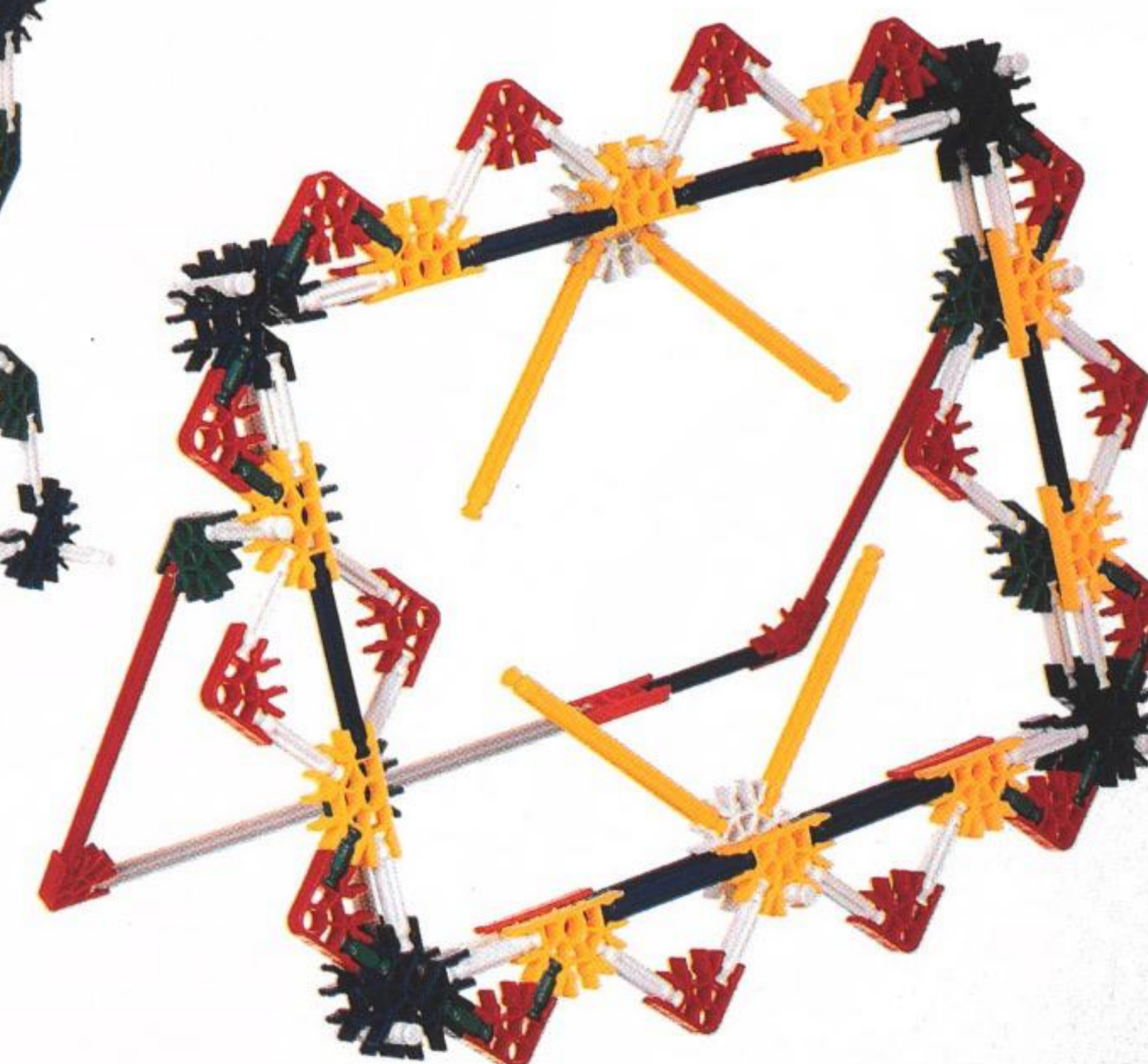
Here are two versions of picture frames, but there are loads of other designs you can come up with on your own. Picture frames, especially when there's a picture of you inside, are great gifts for family and friends!



Back Frame Assembly



Back Frame Assembly



Tie Rack

Here's something special for the men of the family. This K'NEX Tie Rack holds as many ties as you need, because you make it just as long as you want!



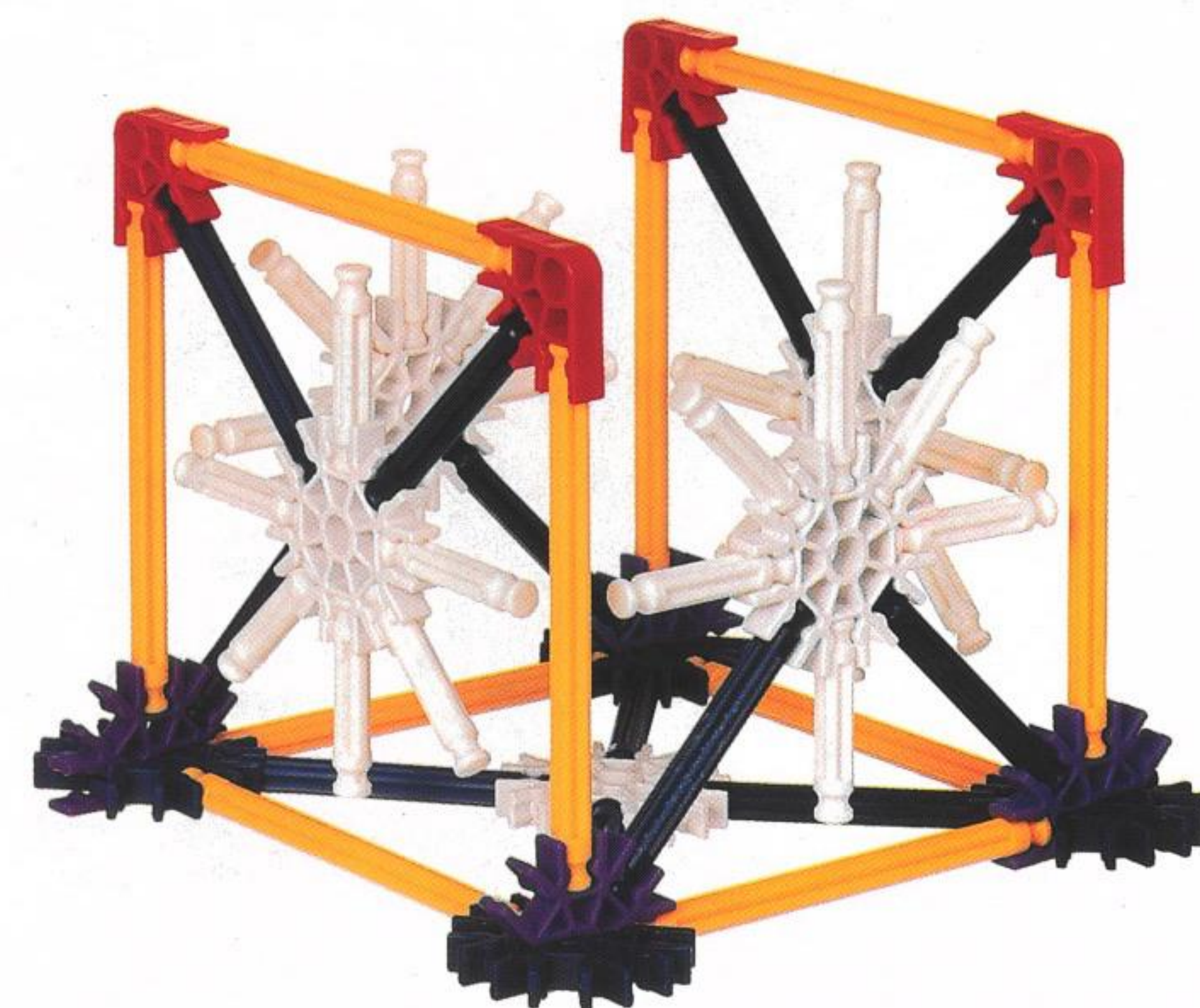
Martin Press, age 9, Newport News, VA

Meet Martin's new friend. He's life-like, life-size, and built from, you guessed it, his favorite K'NEX set. Martin's friend dances, sits up straight, and who knows, may even do Martin's homework.

Plant Holder



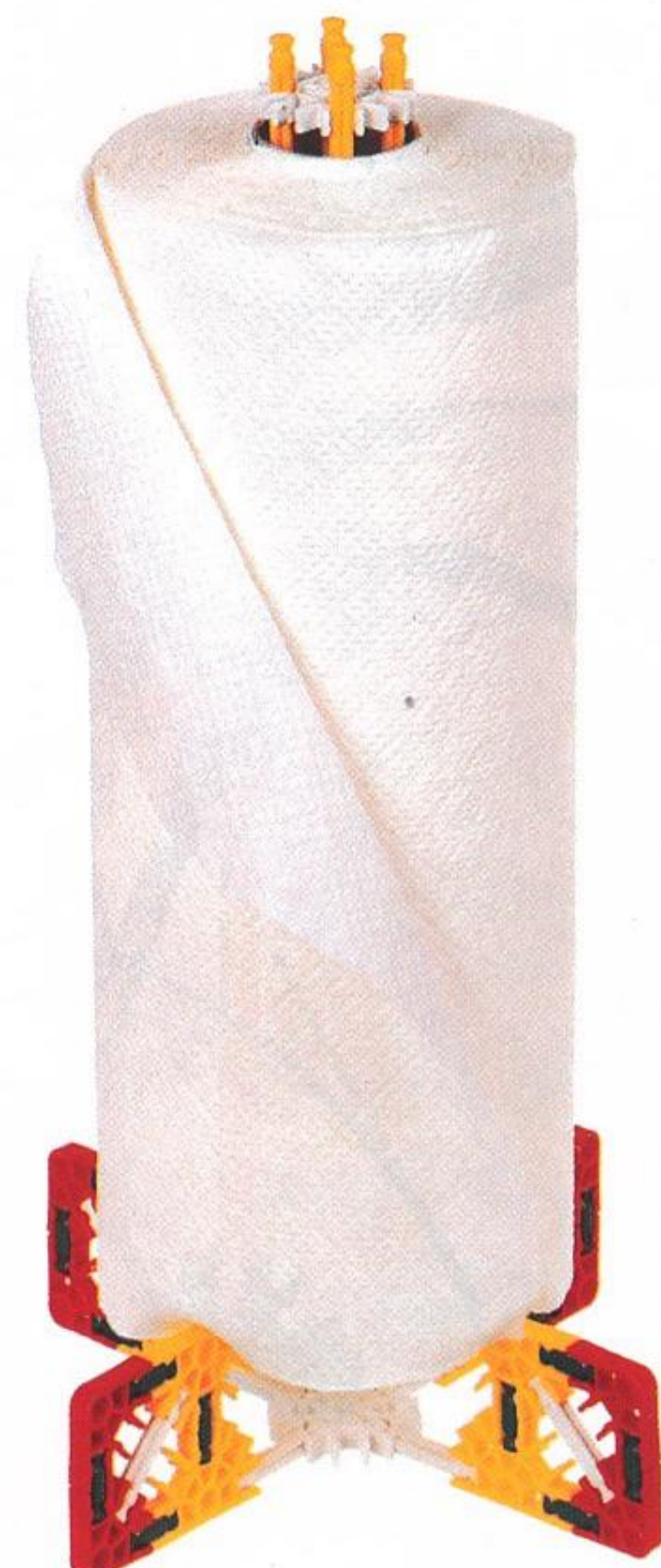
This is a fairly simple design for a Plant Holder. Open your design senses and see how many others you can come up with, big, little and in between.



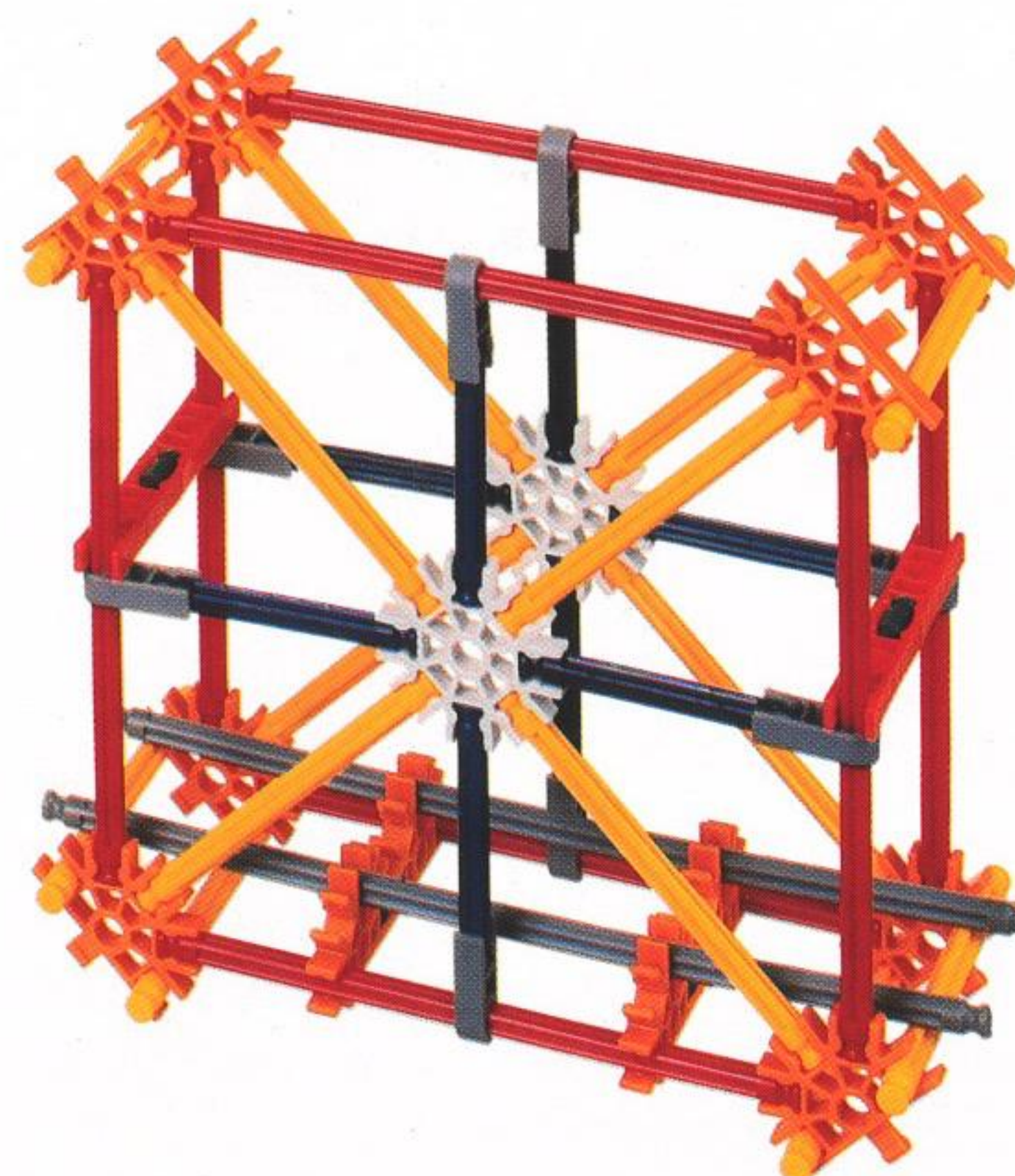
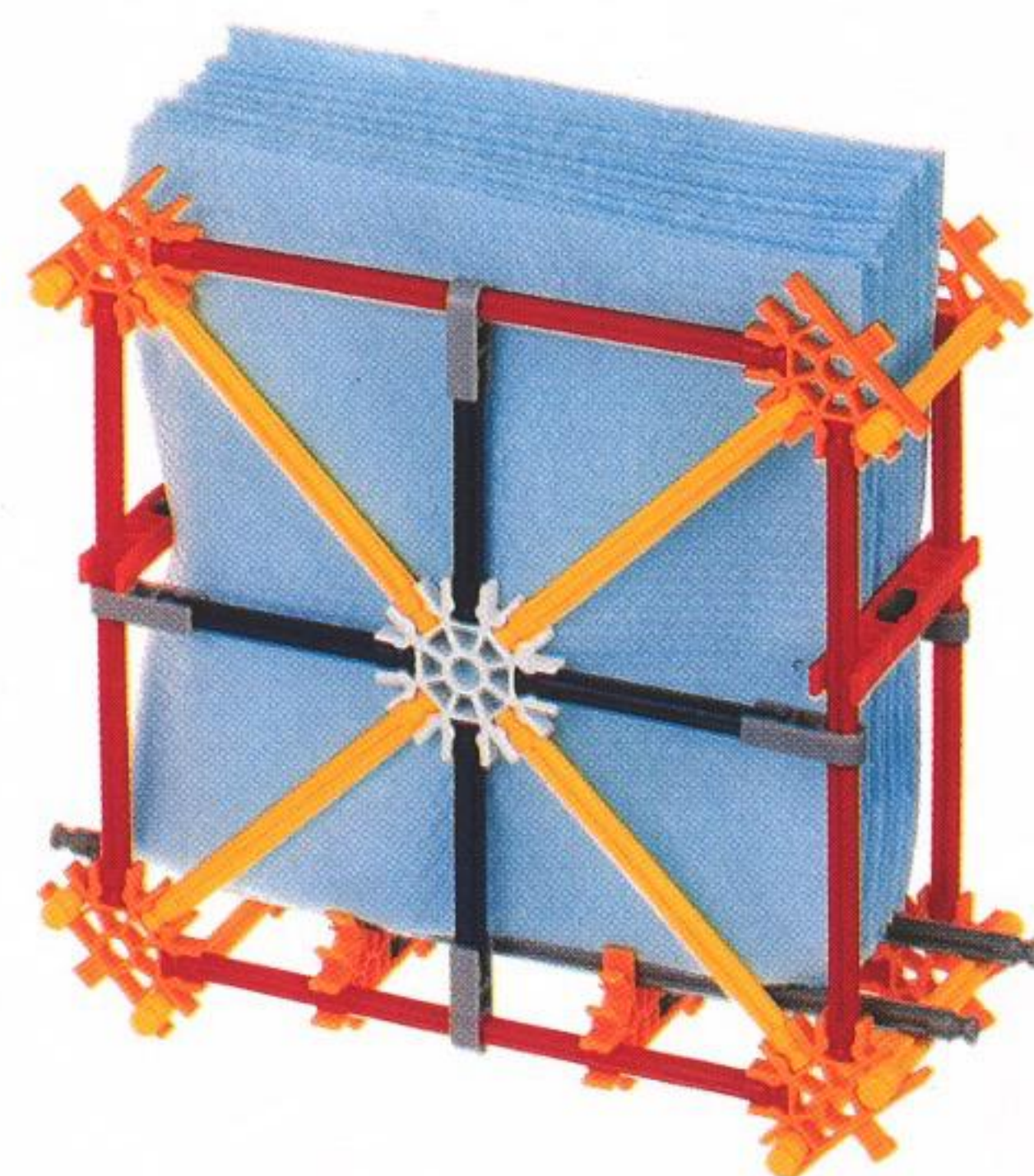
Kitchen Accessories



Here's an efficient Paper Towel Holder that sits on any countertop.



Try building this design for a Napkin Holder and then let your imagination go. There are all kinds of other ideas and patterns that will do the job.



Desk Accessories

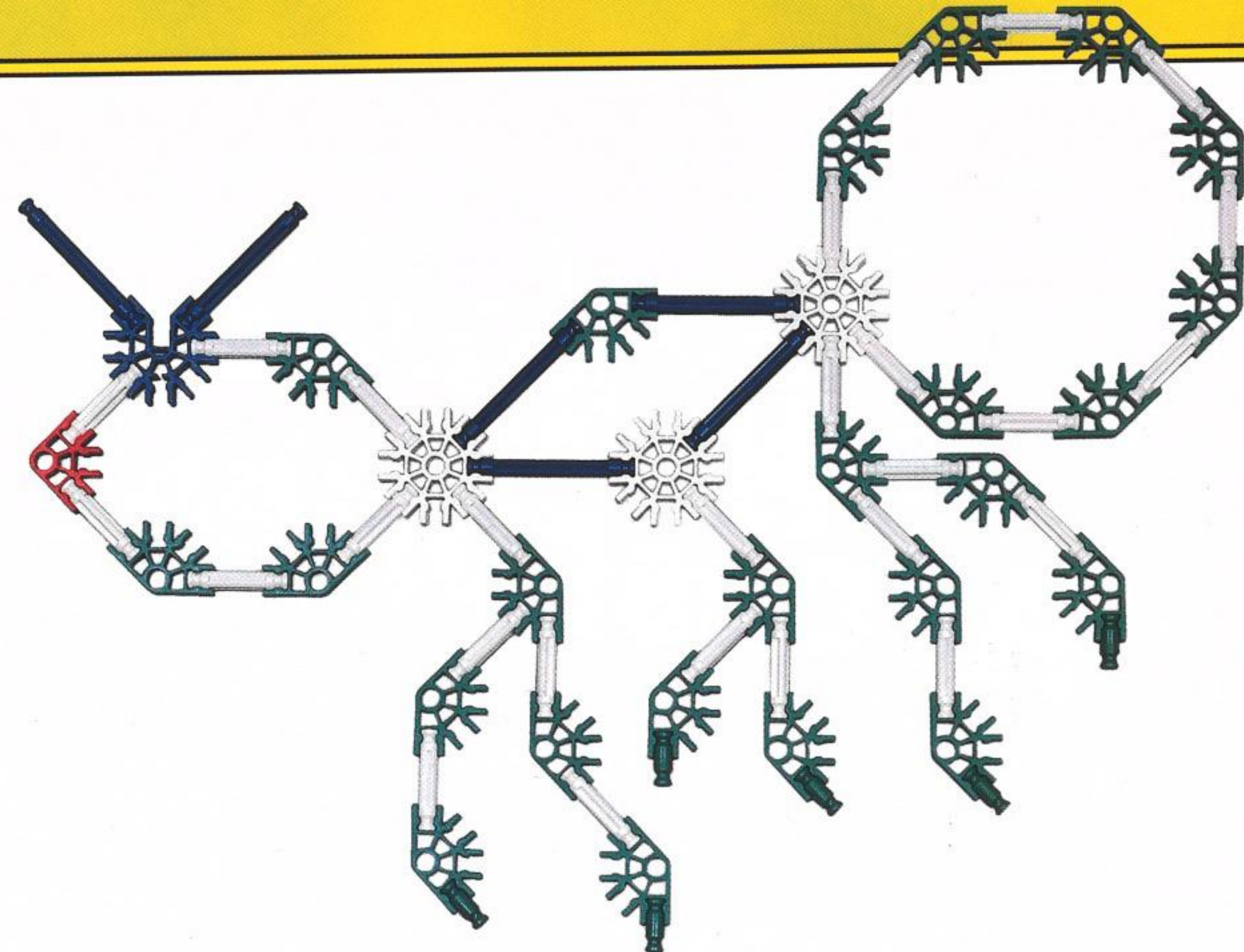


Things made from K'NEX can hold just about anything. Here's a Pencil Holder, an Envelope Tray, and an In/Out Bin. There are lots of other items that belong on top of a desk, too. Can you build some of them from K'NEX?



K'NEX at school is WAY COOL!

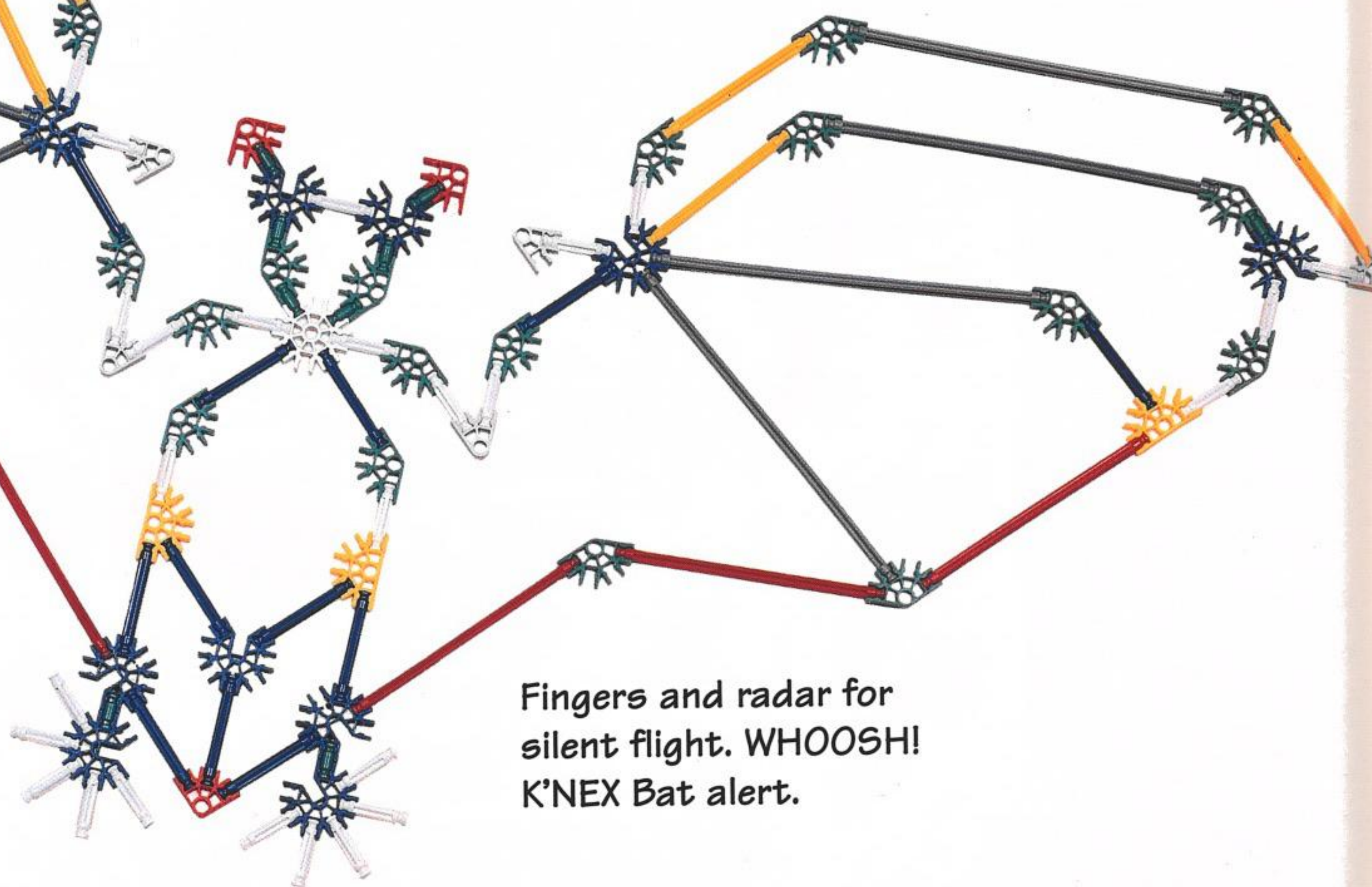
It's fun to think of all the ways to use K'NEX at school. From math to science to language arts, try some of these big ideas. And be sure to create some big ideas of your own!



With six legs, a thorax, an abdomen and antennae, the ants go marching... to school.

Science

Studying insects? Build a bug!
Nocturnal mammals? Build a bat!
Ornithology is all about birds.
Build an owl!

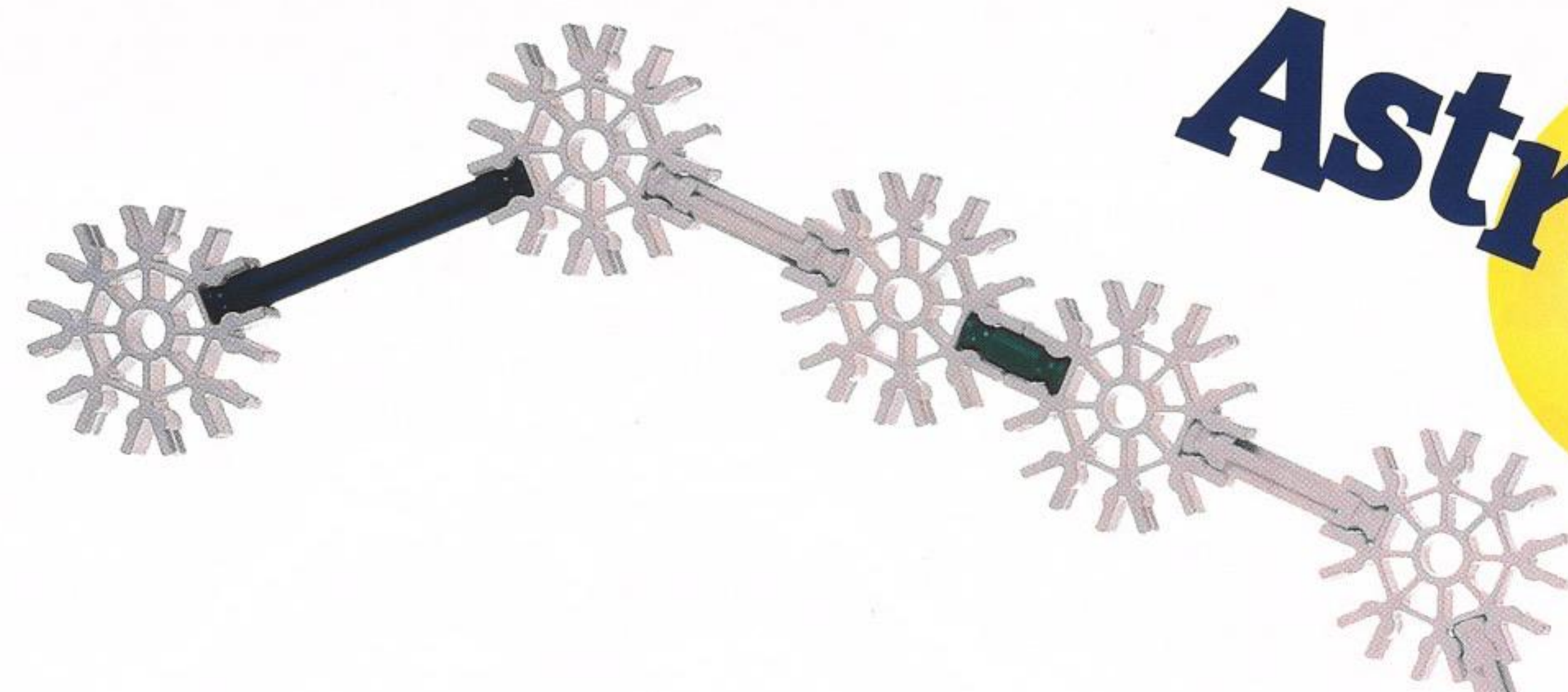


Fingers and radar for
silent flight. WHOOSH!
K'NEX Bat alert.

Book Reports

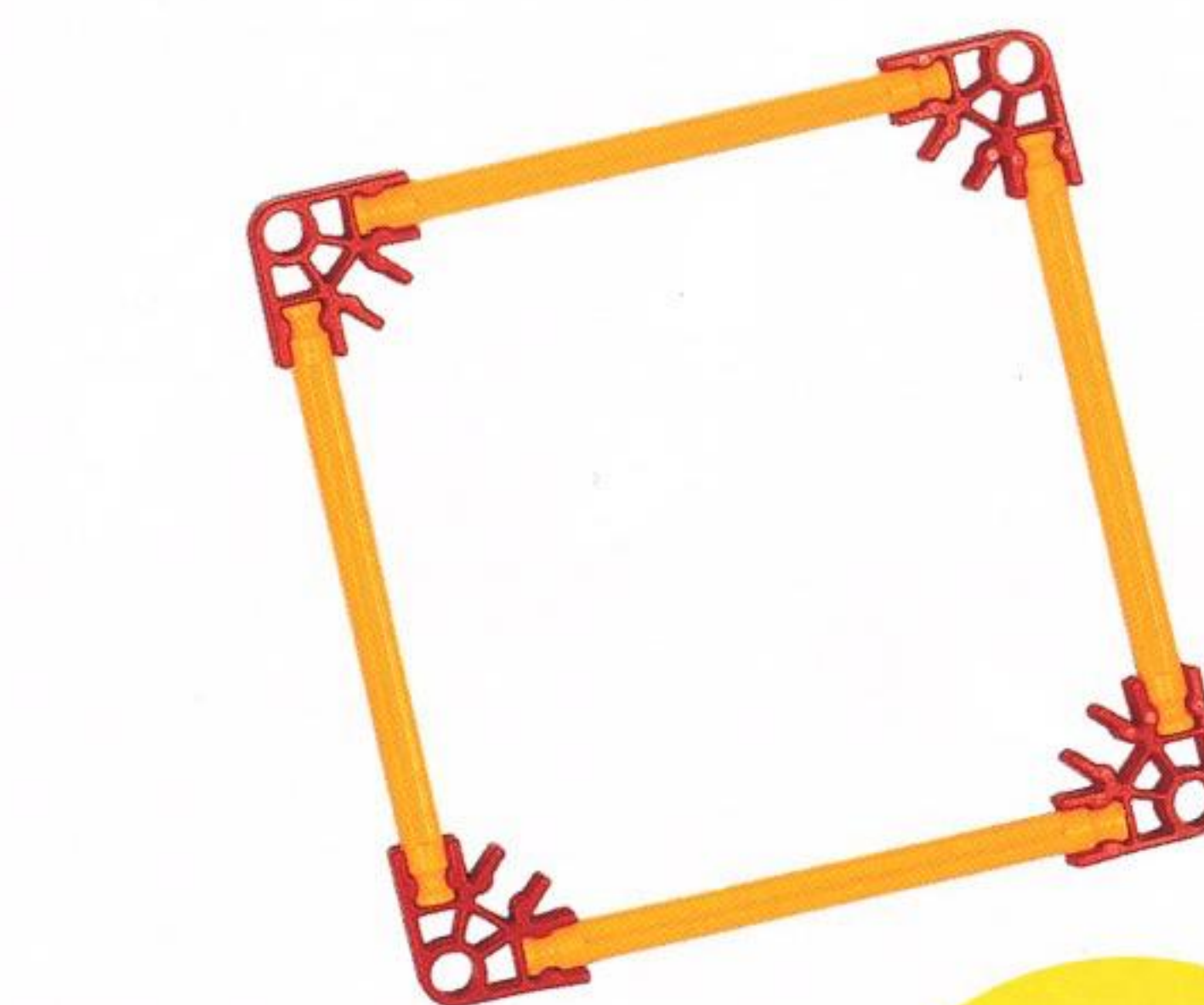
Build a K'NEX model that illustrates one of the characters or events in the book you've read.
If your book was about flying, build an airplane!

Astronomy



Seeing stars? Be one! When you bring in your own constellation or solar system built from K'NEX—you'll dazzle your teacher AND be a star with your friends.

Pegasis Constellation



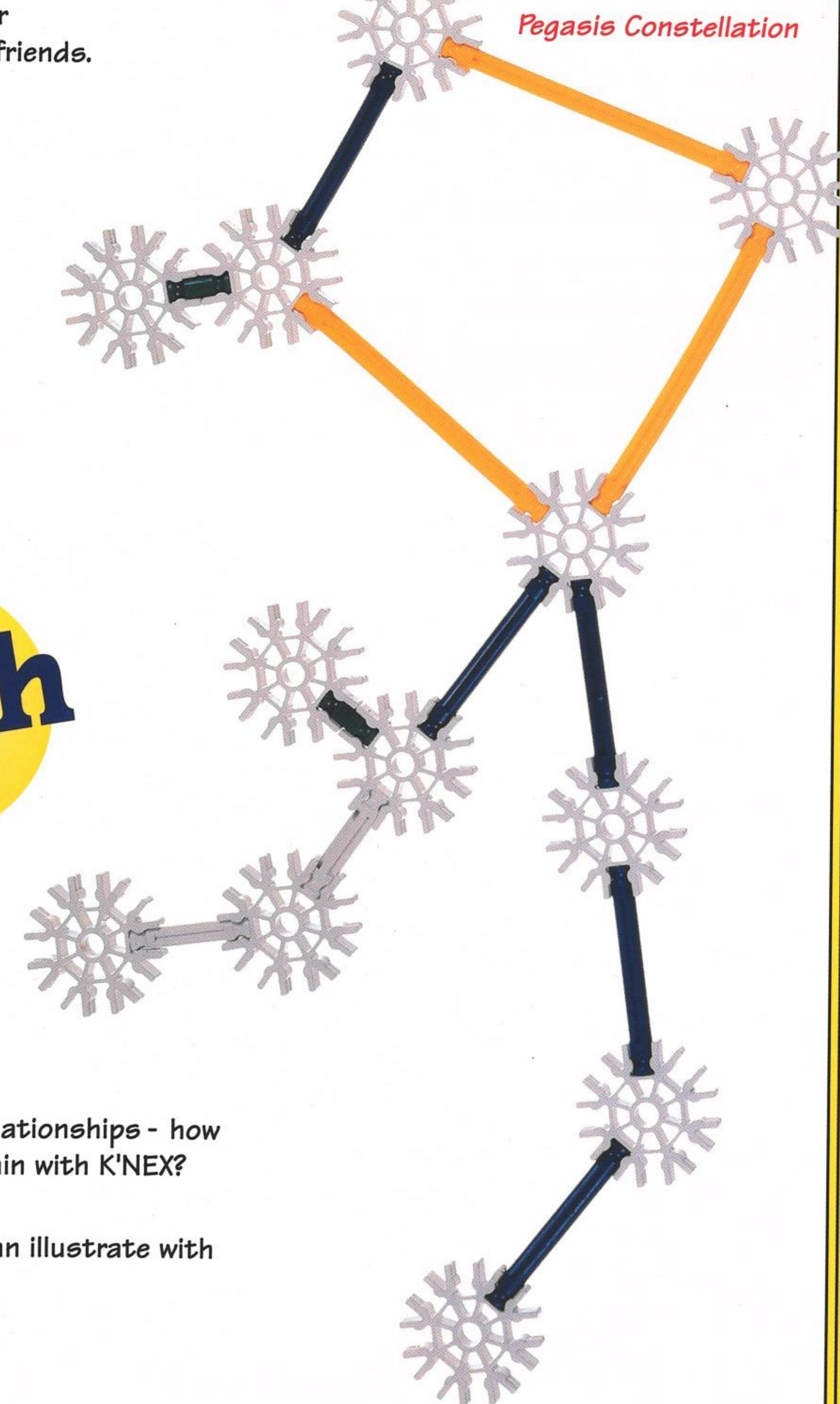
Math



Squares, rectangles, triangles and their relationships - how many math ideas or theories can you explain with K'NEX?

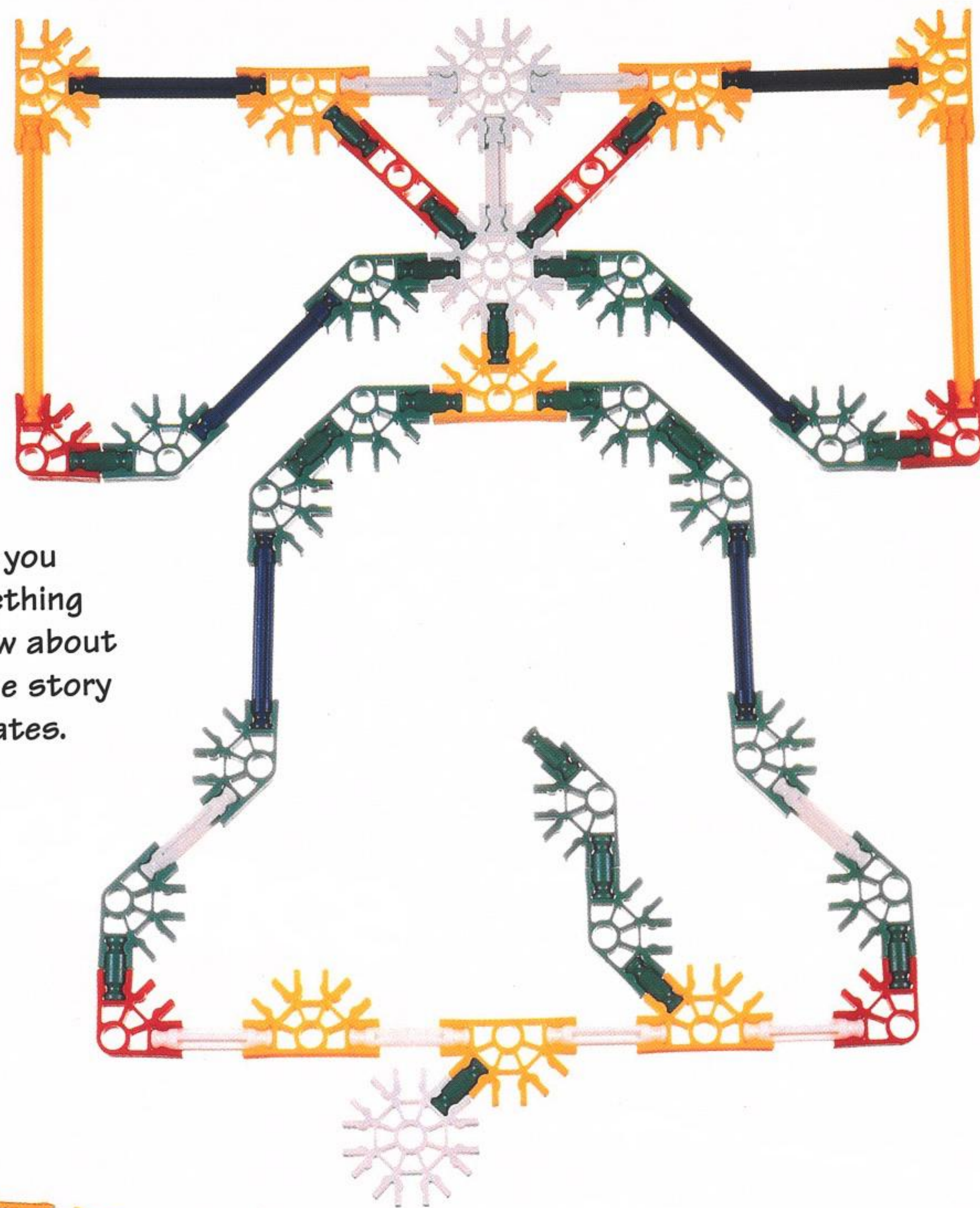
Studying symmetry? Dimensions?

Just about anything you're learning, you can illustrate with K'NEX. Give it a try!

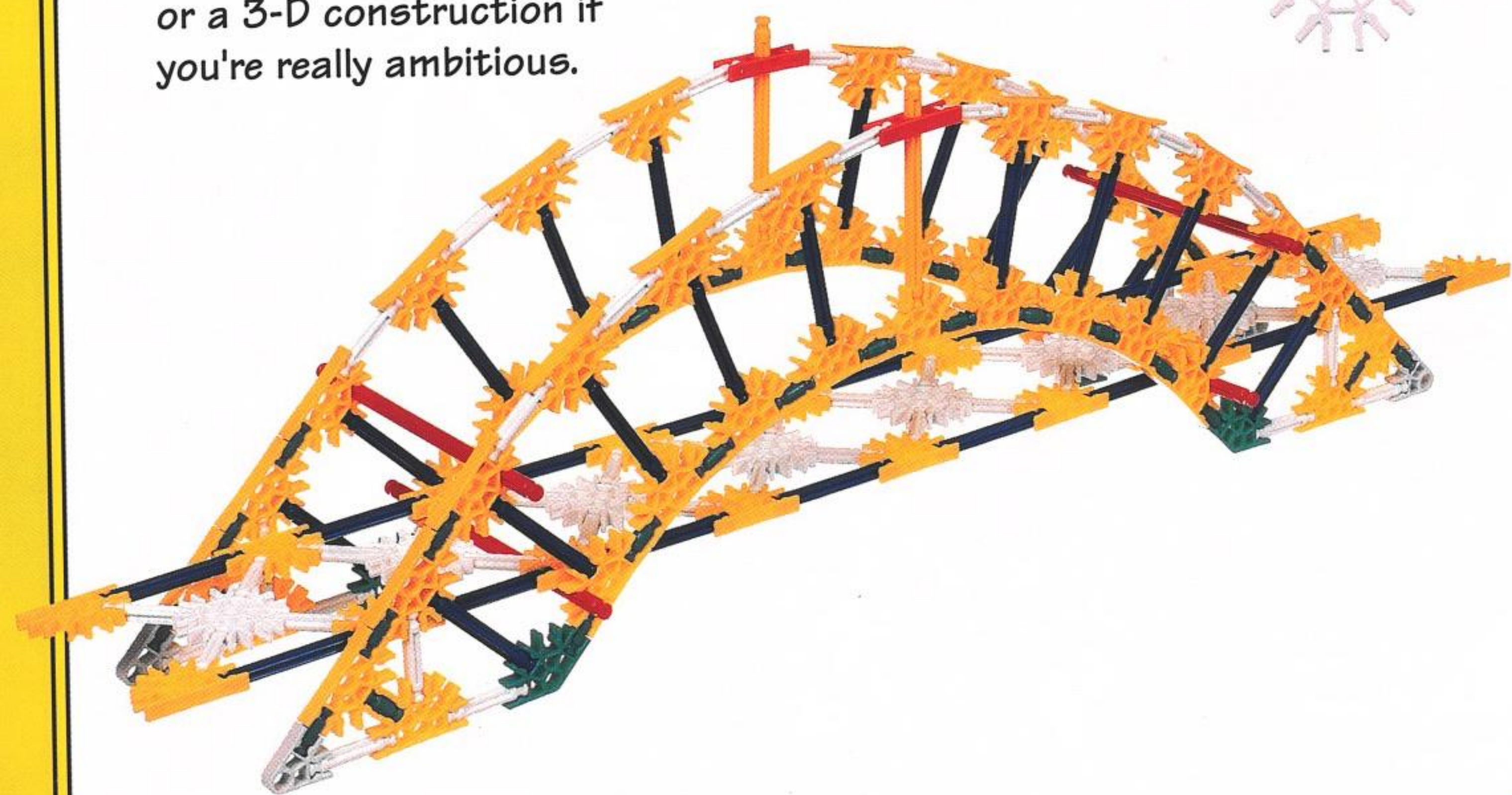


World Culture

National monuments are a place you can really shine! Start with something as simple as the Liberty Bell. How about the Statue of Liberty? Relate the story of how it came to the United States.



Try building a famous Bridge. It can be in two dimensions, or a 3-D construction if you're really ambitious.



Katie Hess, age 11, Pittsburgh, PA

While bridges were first made by placing tree trunks across rivers or laying flat stones on rocks, Katie Hess has built a bridge for today. With a working K'NEX pulley system, her multi-purpose bridge can be raised and lowered.

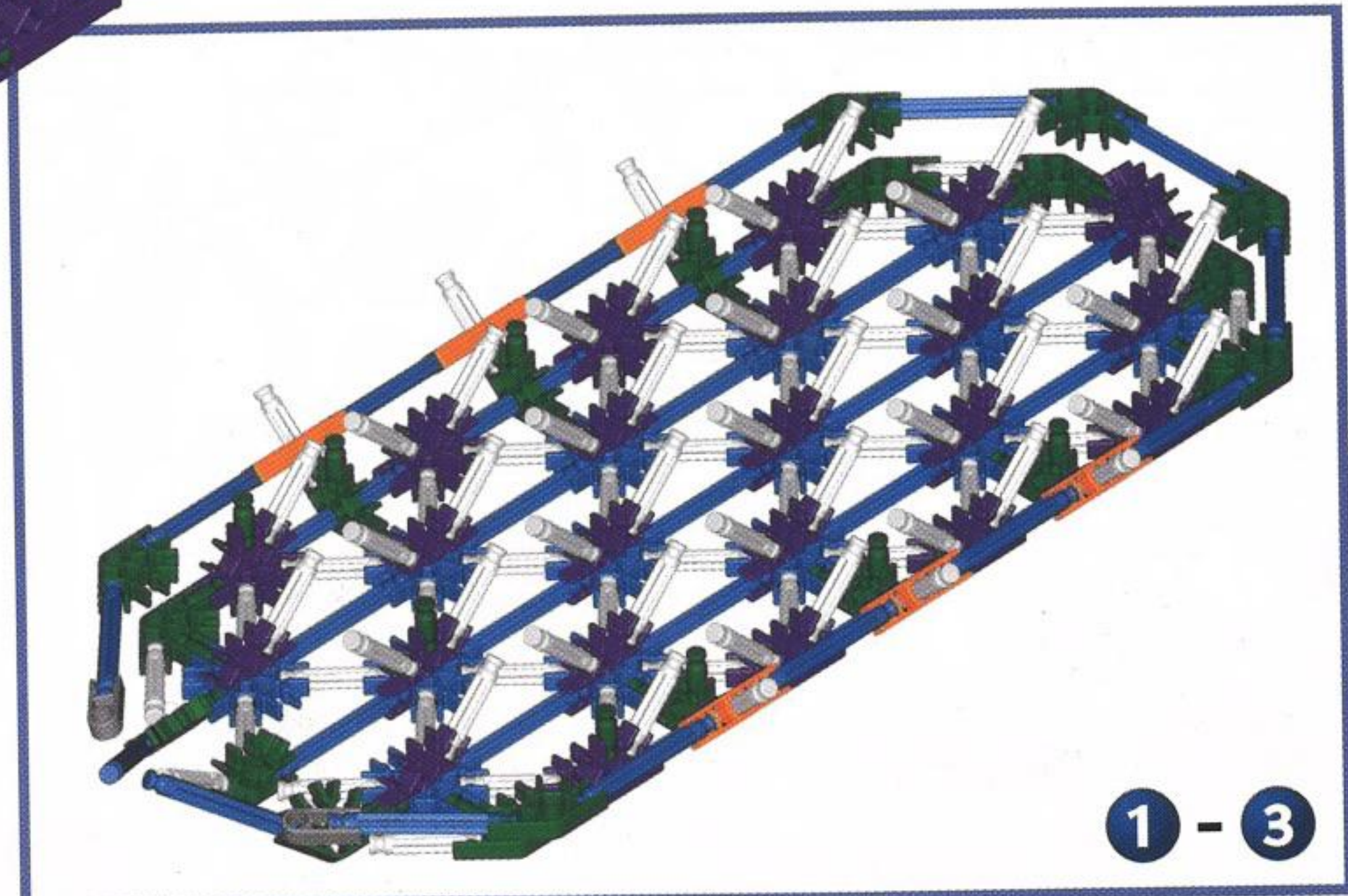
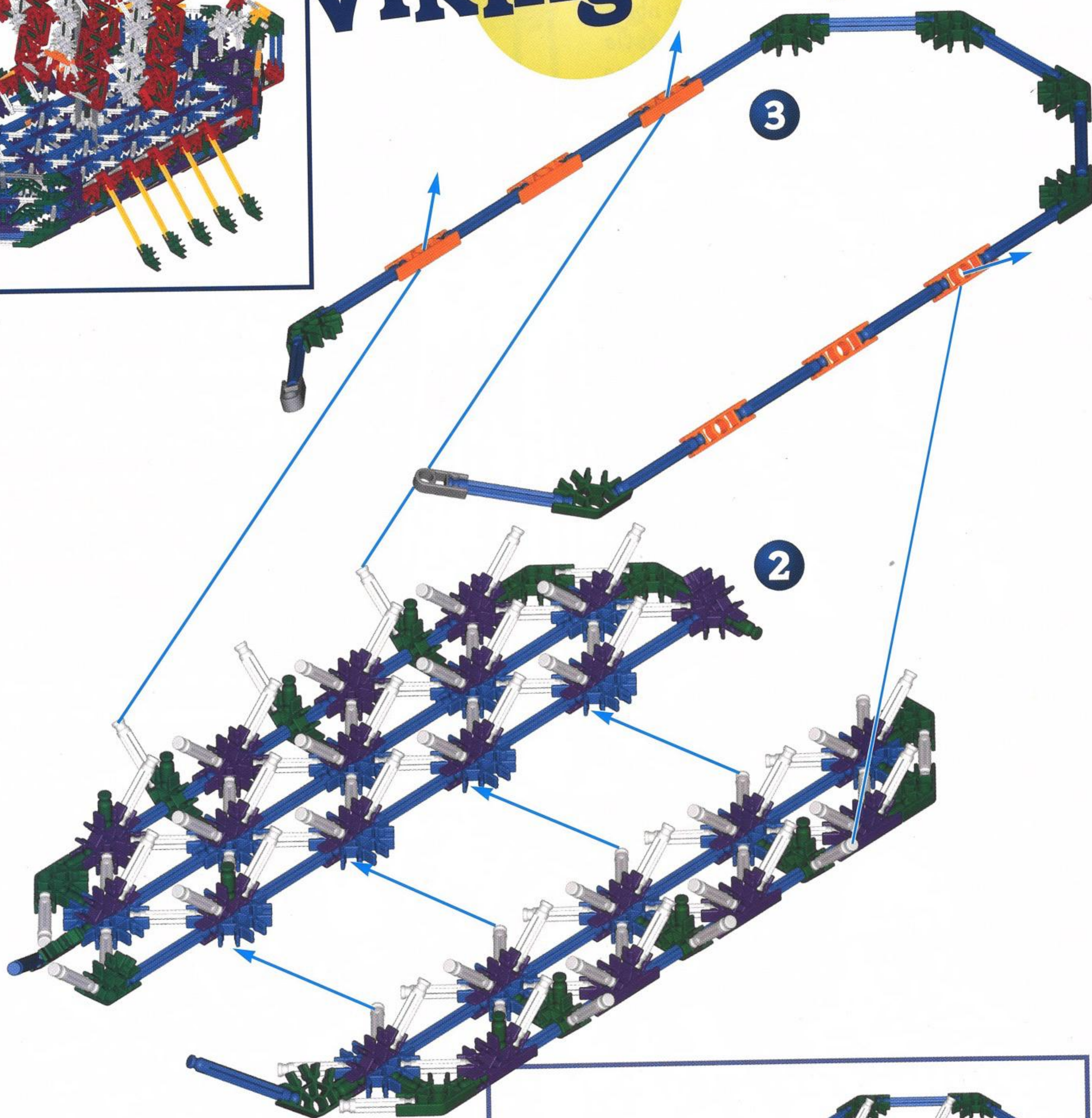
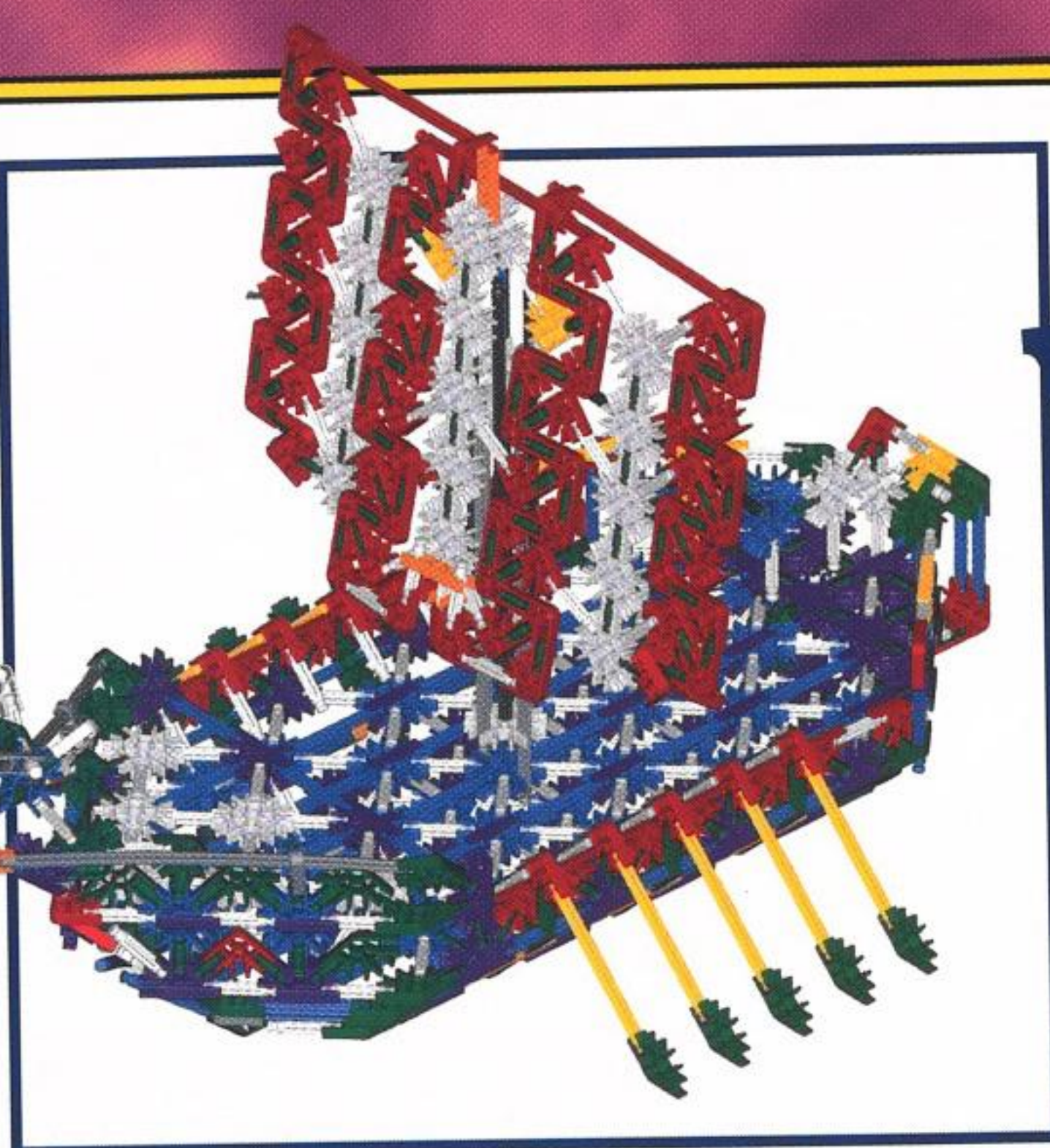


On the international side, how about the Eiffel Tower in Paris? Or a castle in Germany. There's almost nothing you can't build, either small or large. Salute the flag, too, from the United States or other countries you're studying.

There's so much you can do with K'NEX in the classroom! These are just a few ideas . . . you probably have many of your own by now. So let your imagination run free and see how many ways you can use K'NEX to make learning fun!

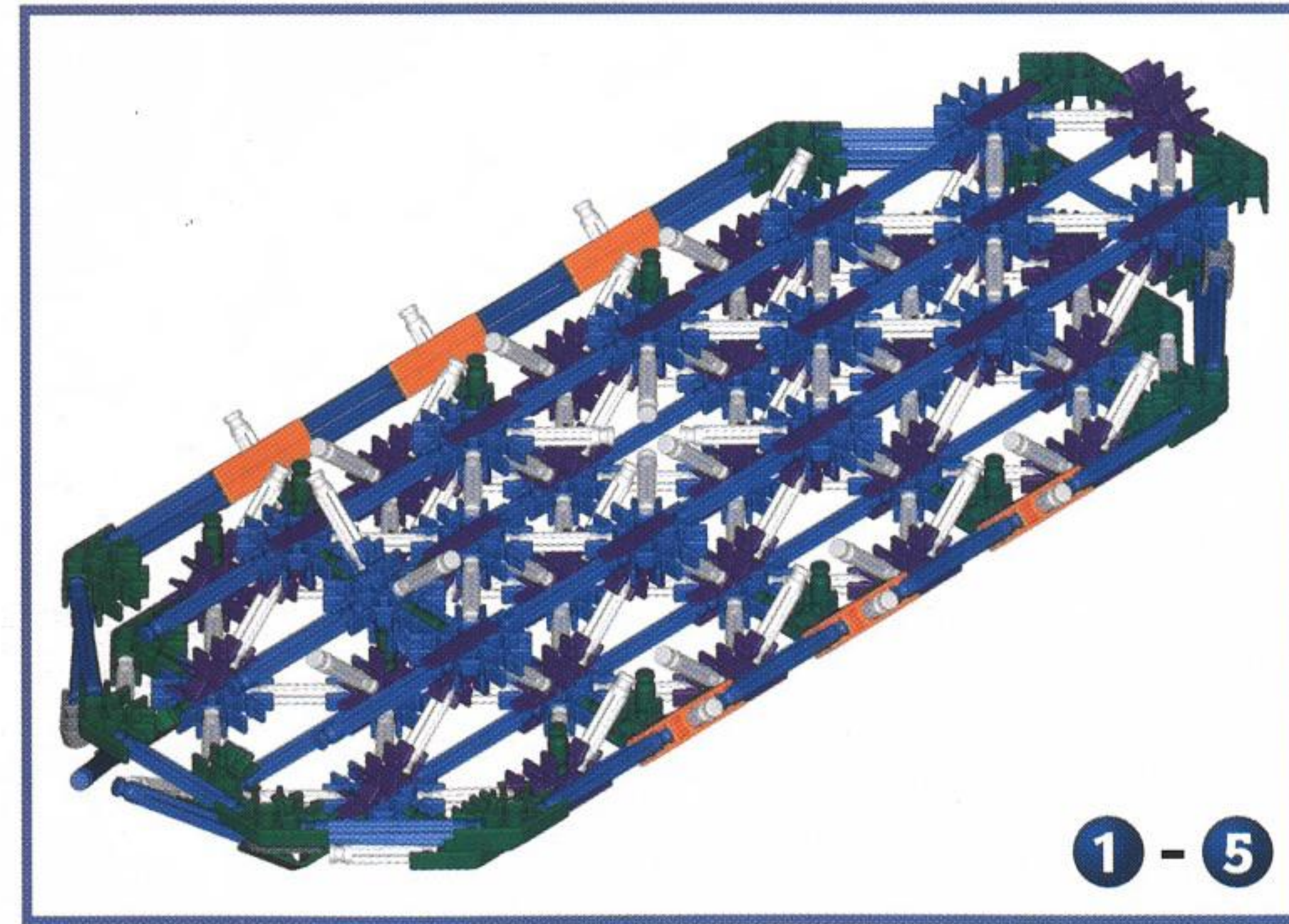
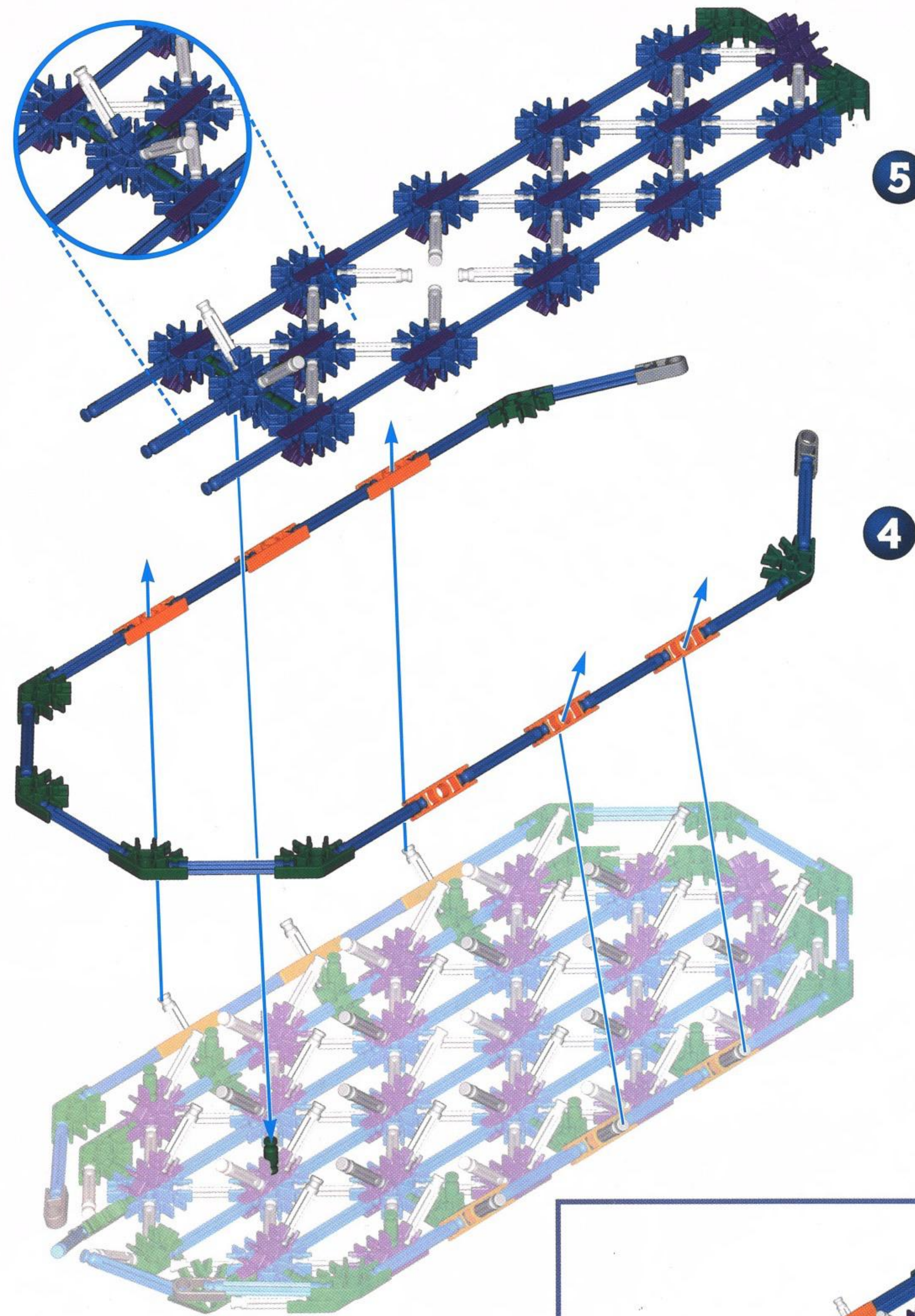


Viking Ship

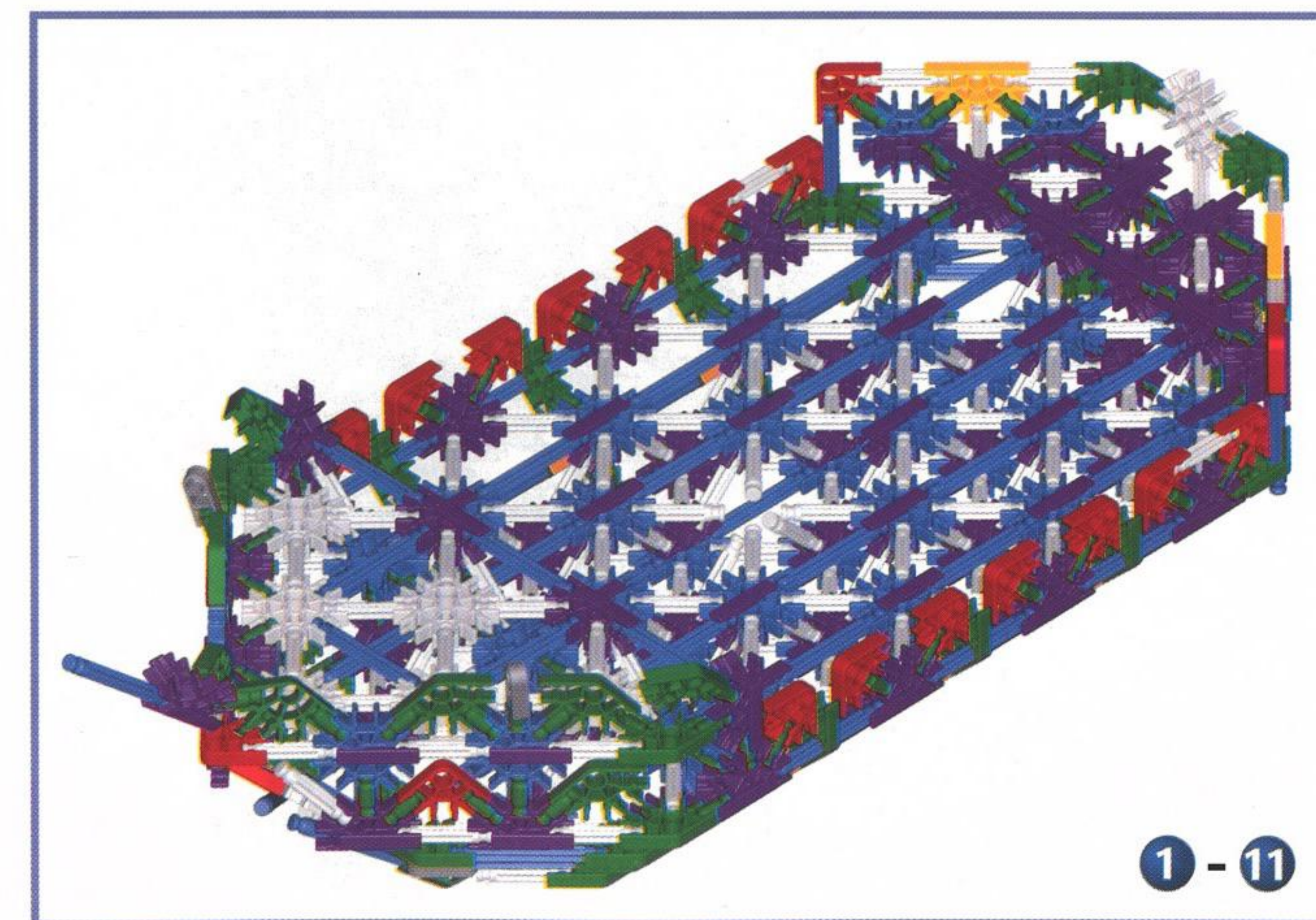
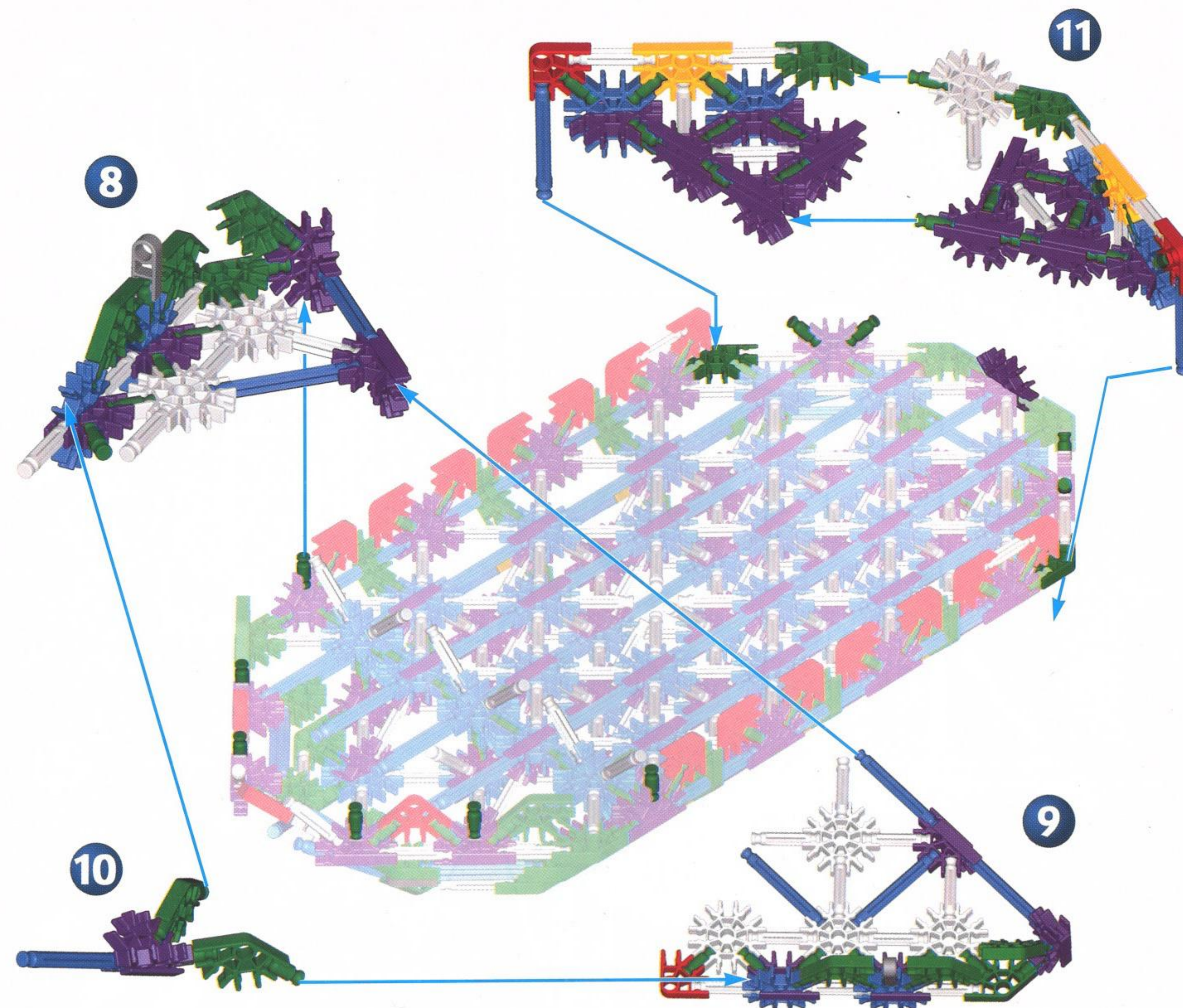
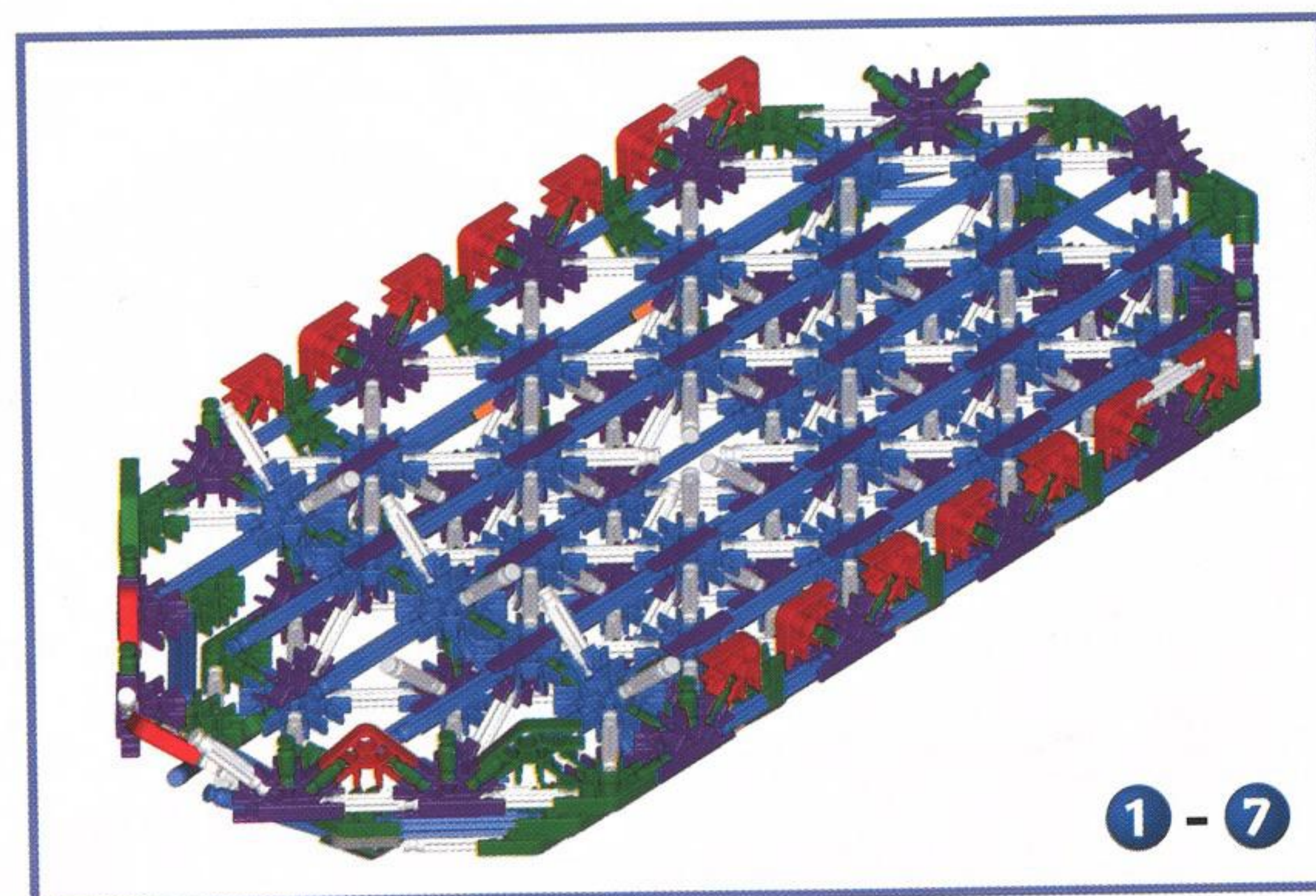
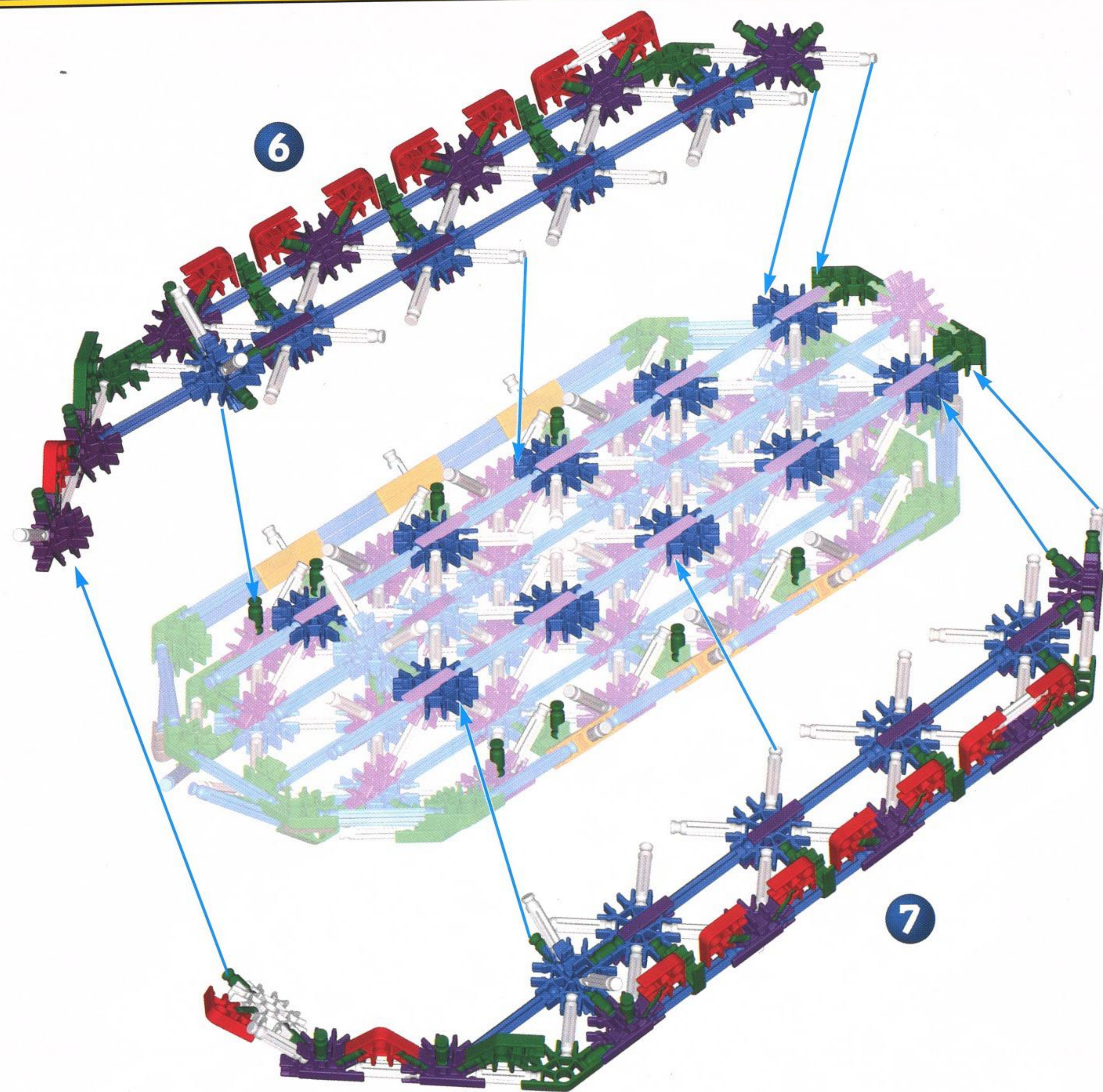


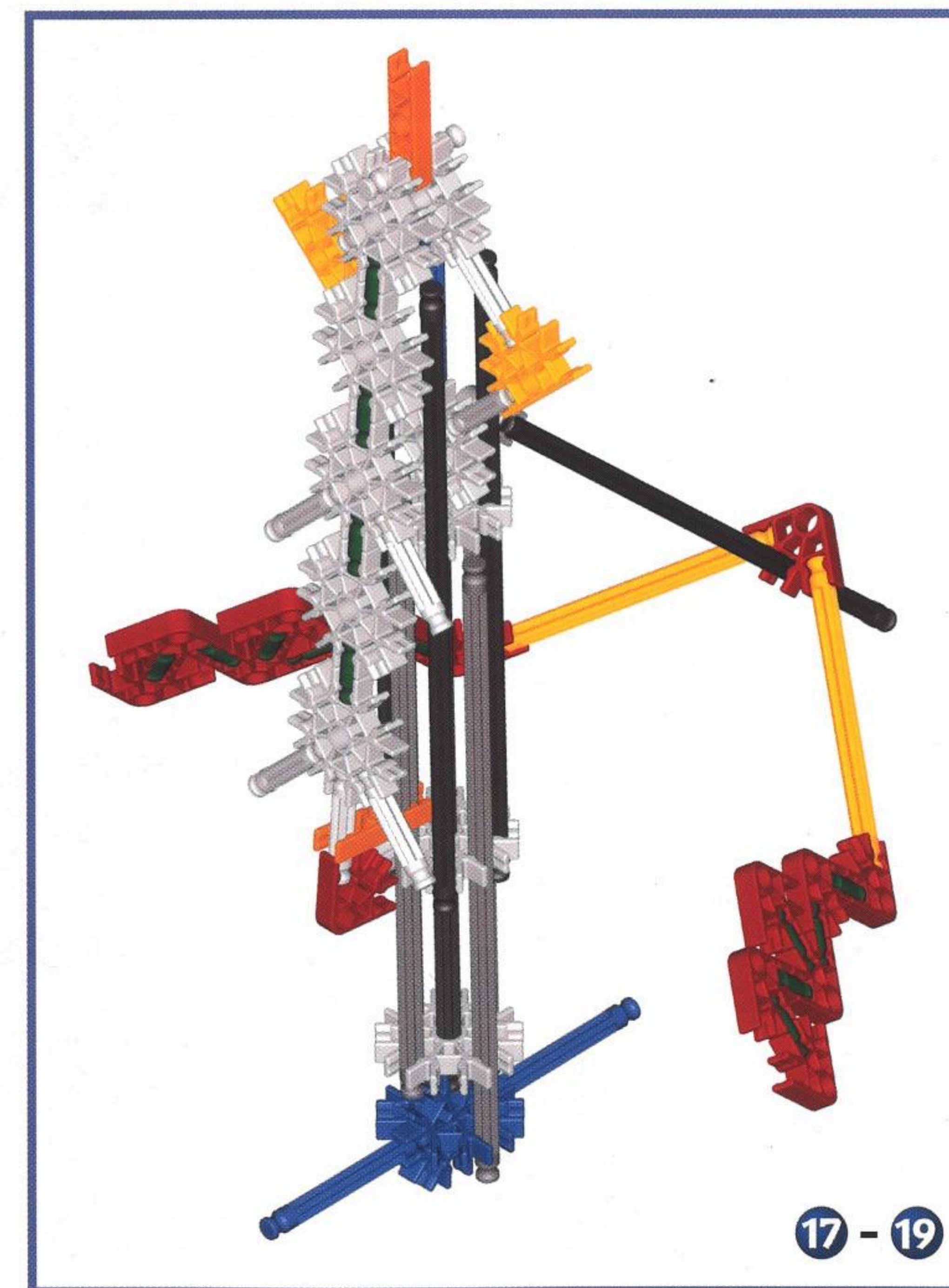
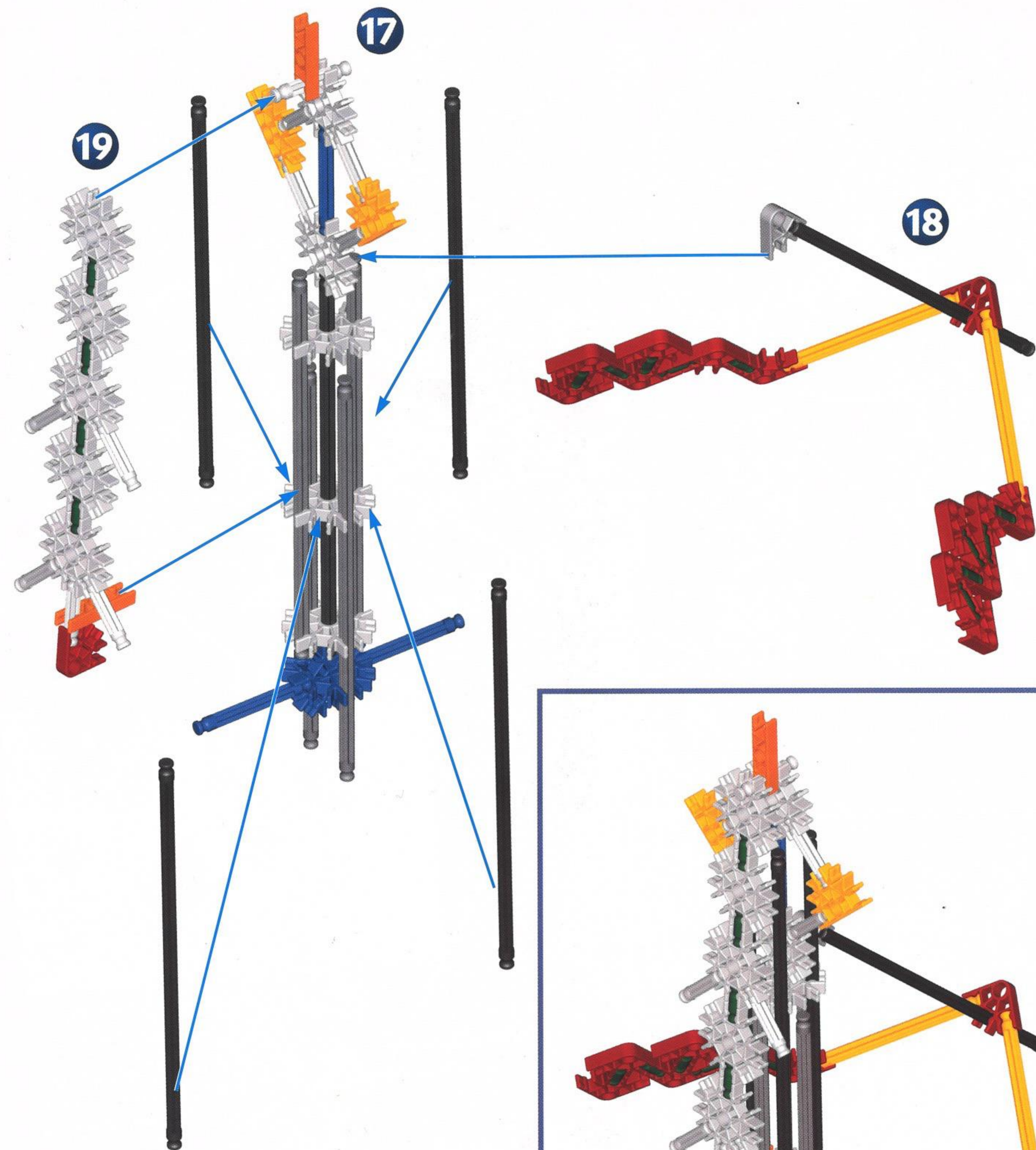
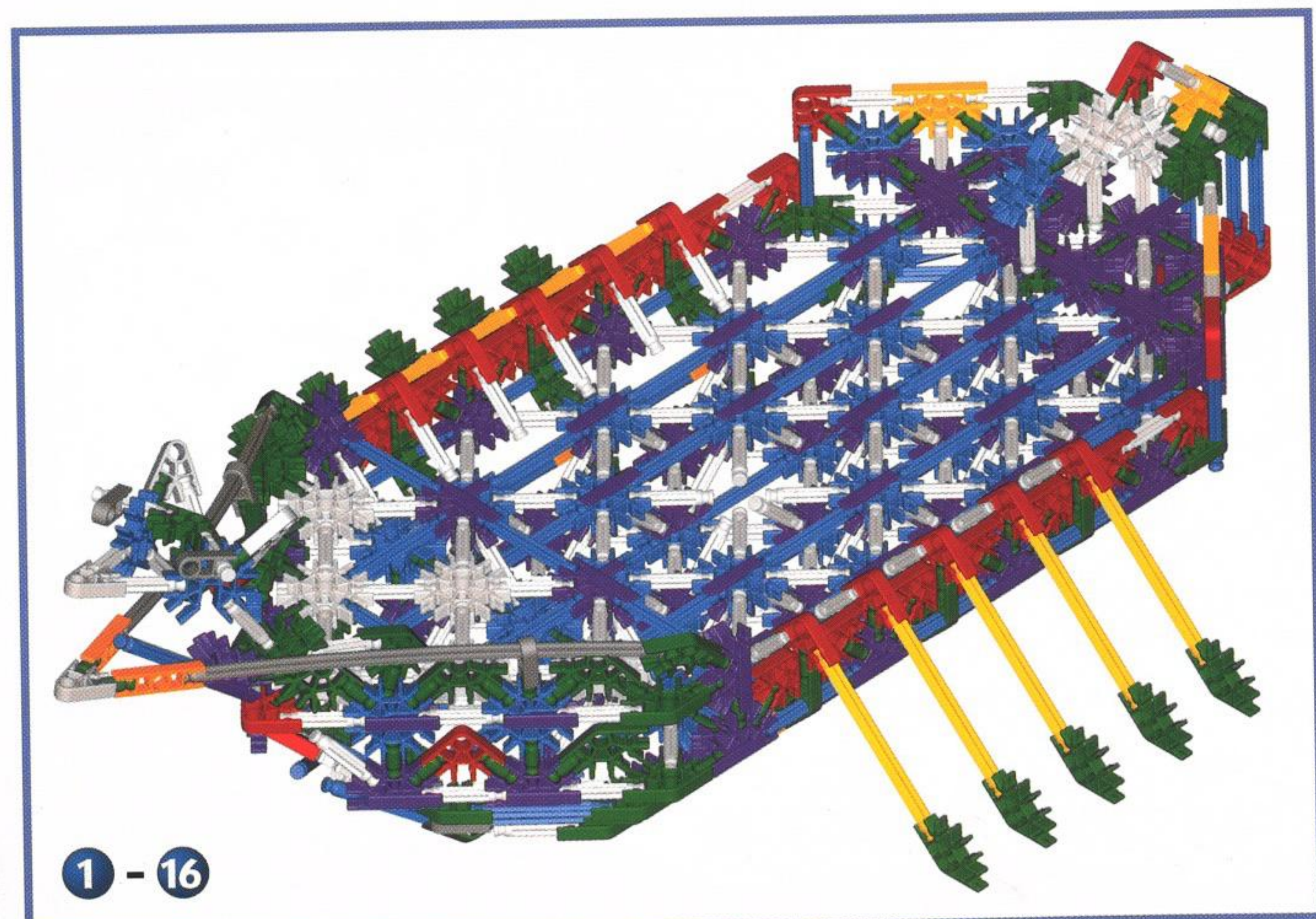
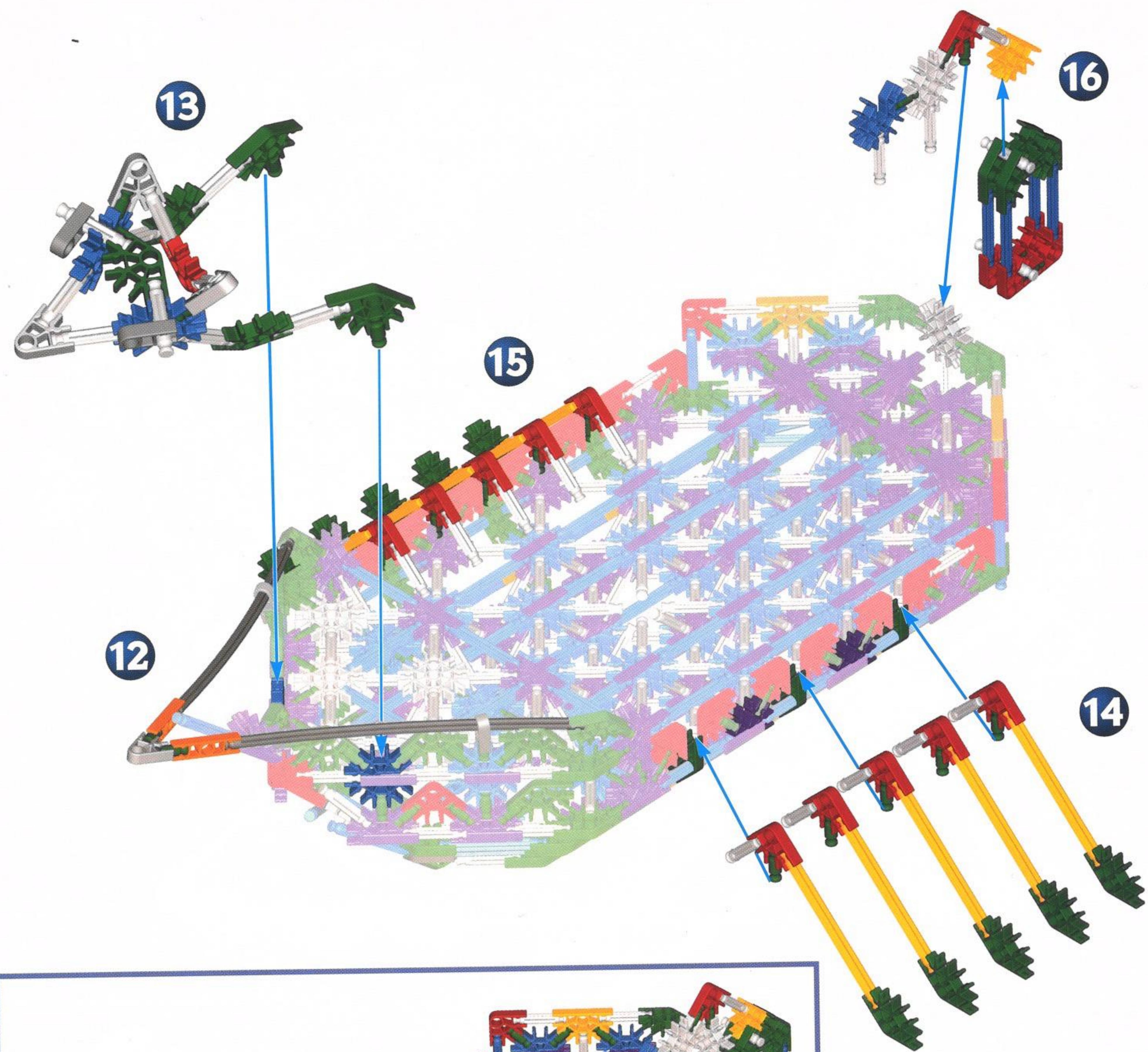
You will need these parts

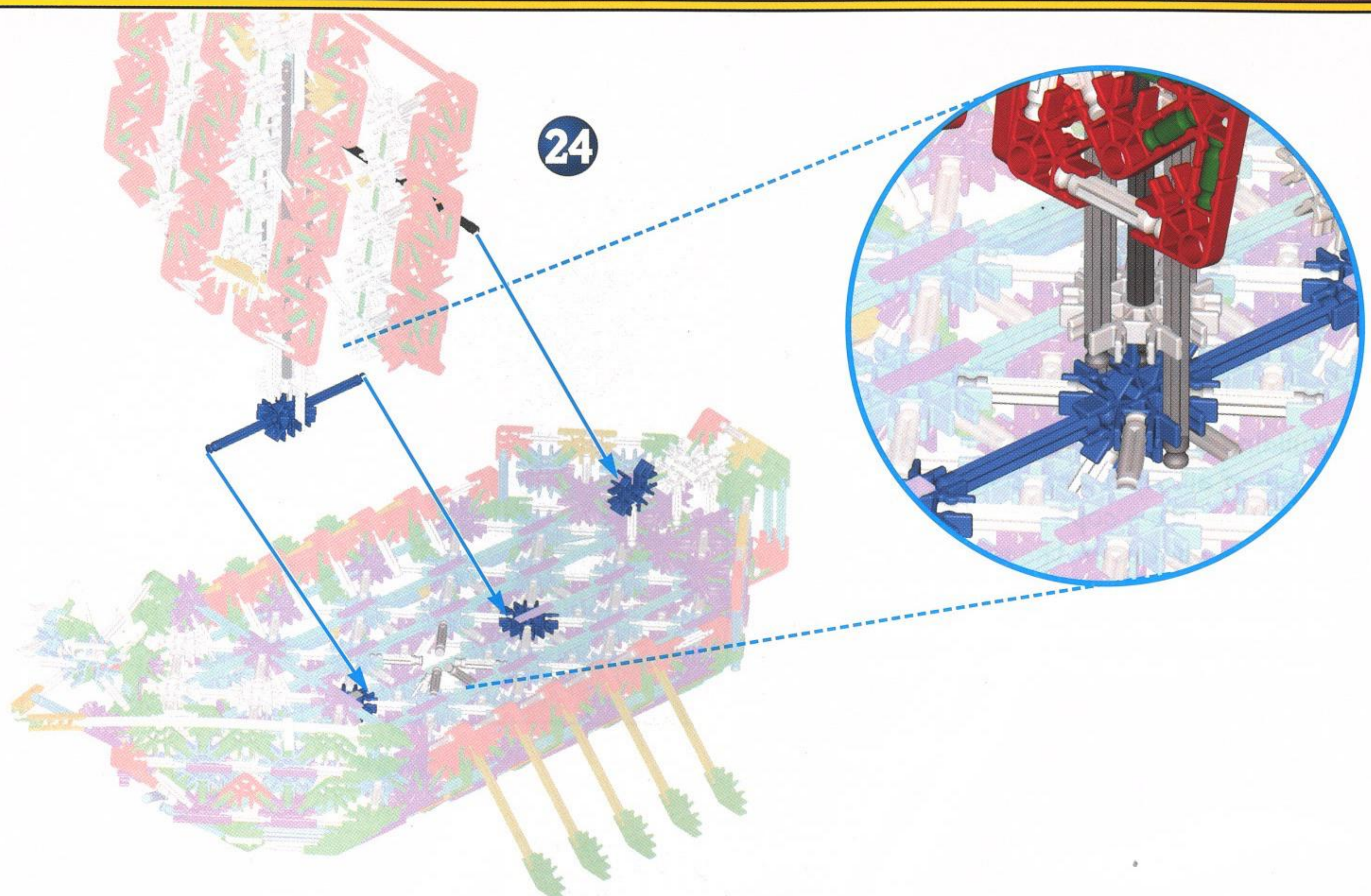
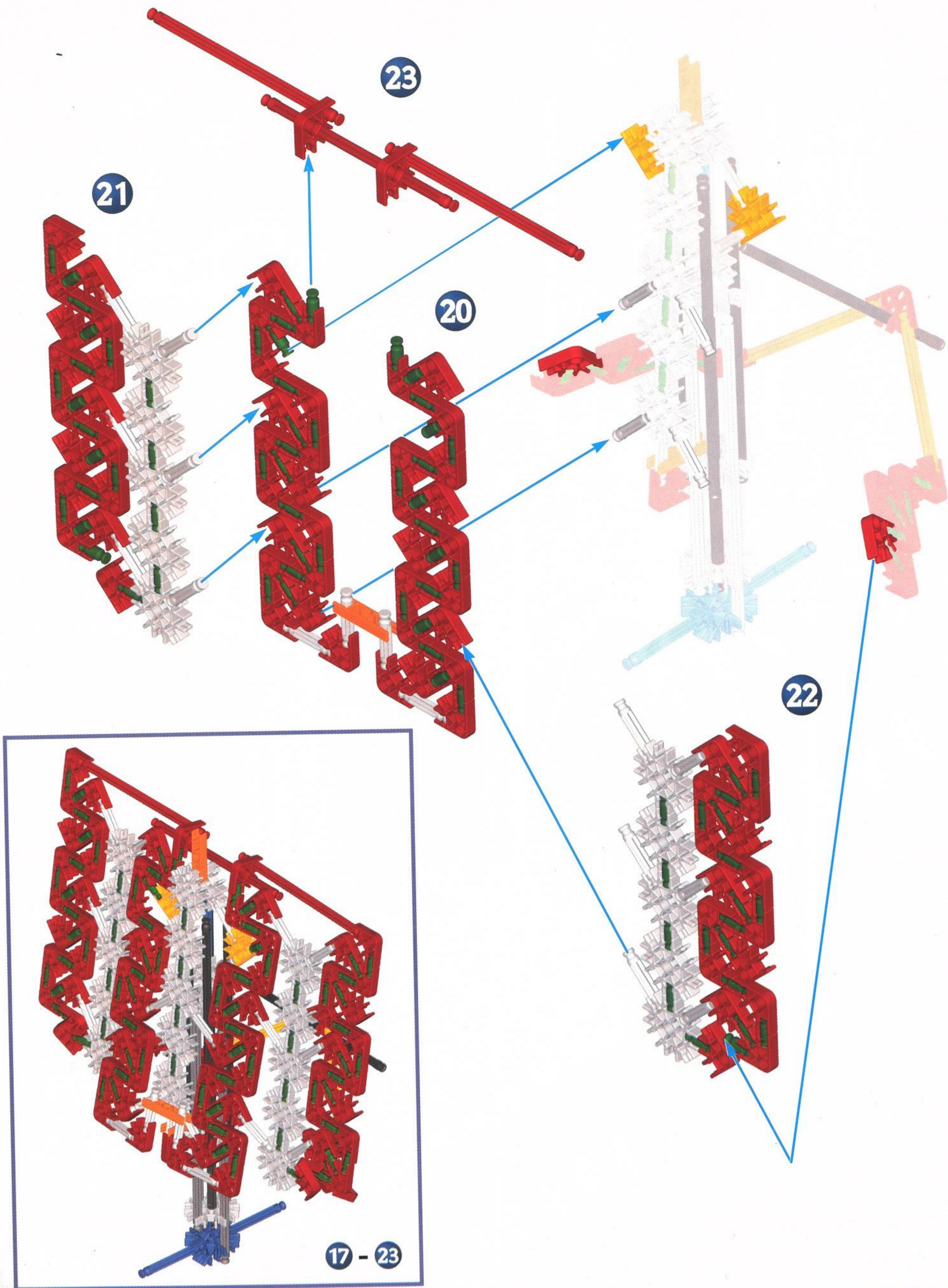
8	247
17	231
5	90
118	12
72	3
5	6
113	6
54	
29	



1 - 5





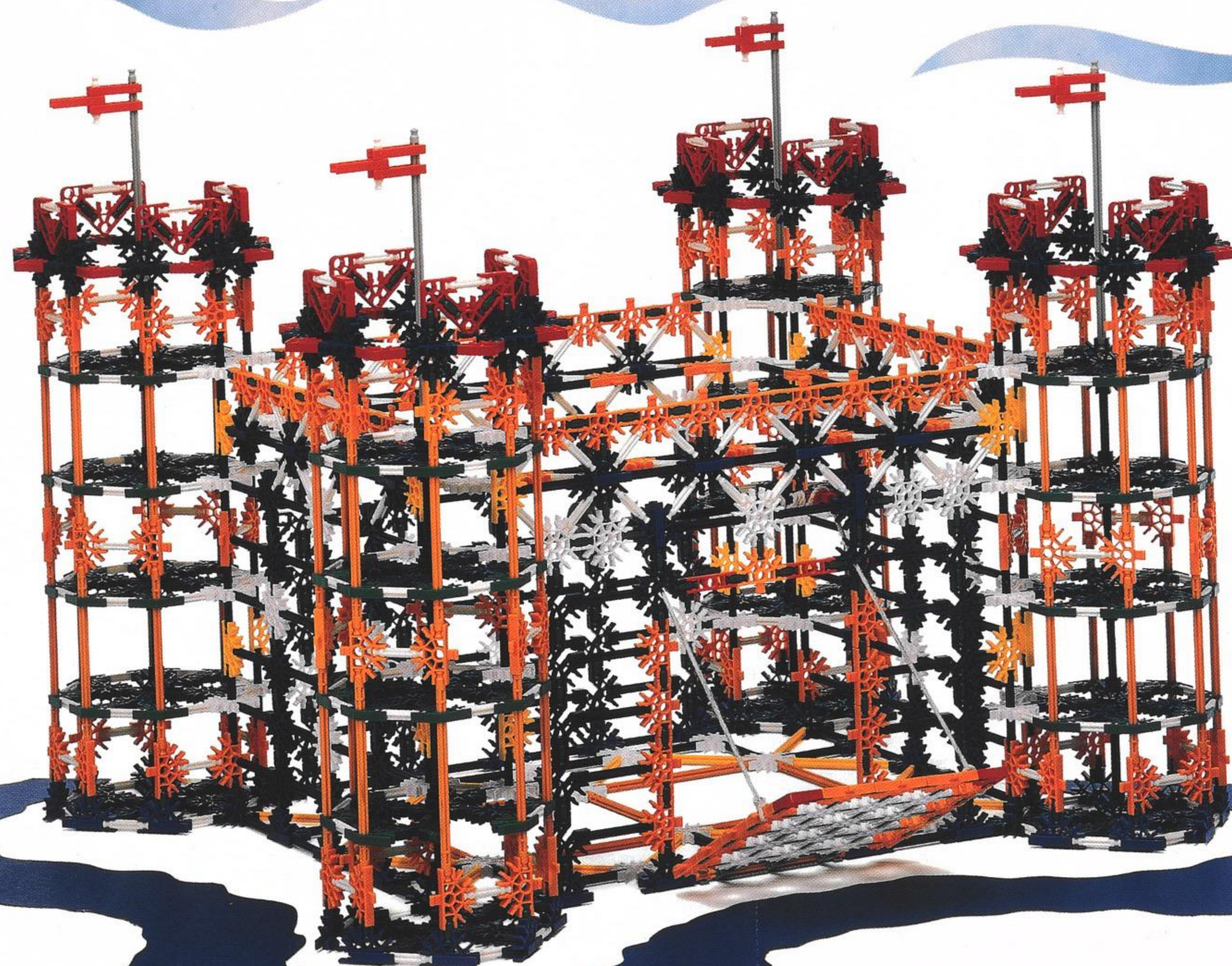
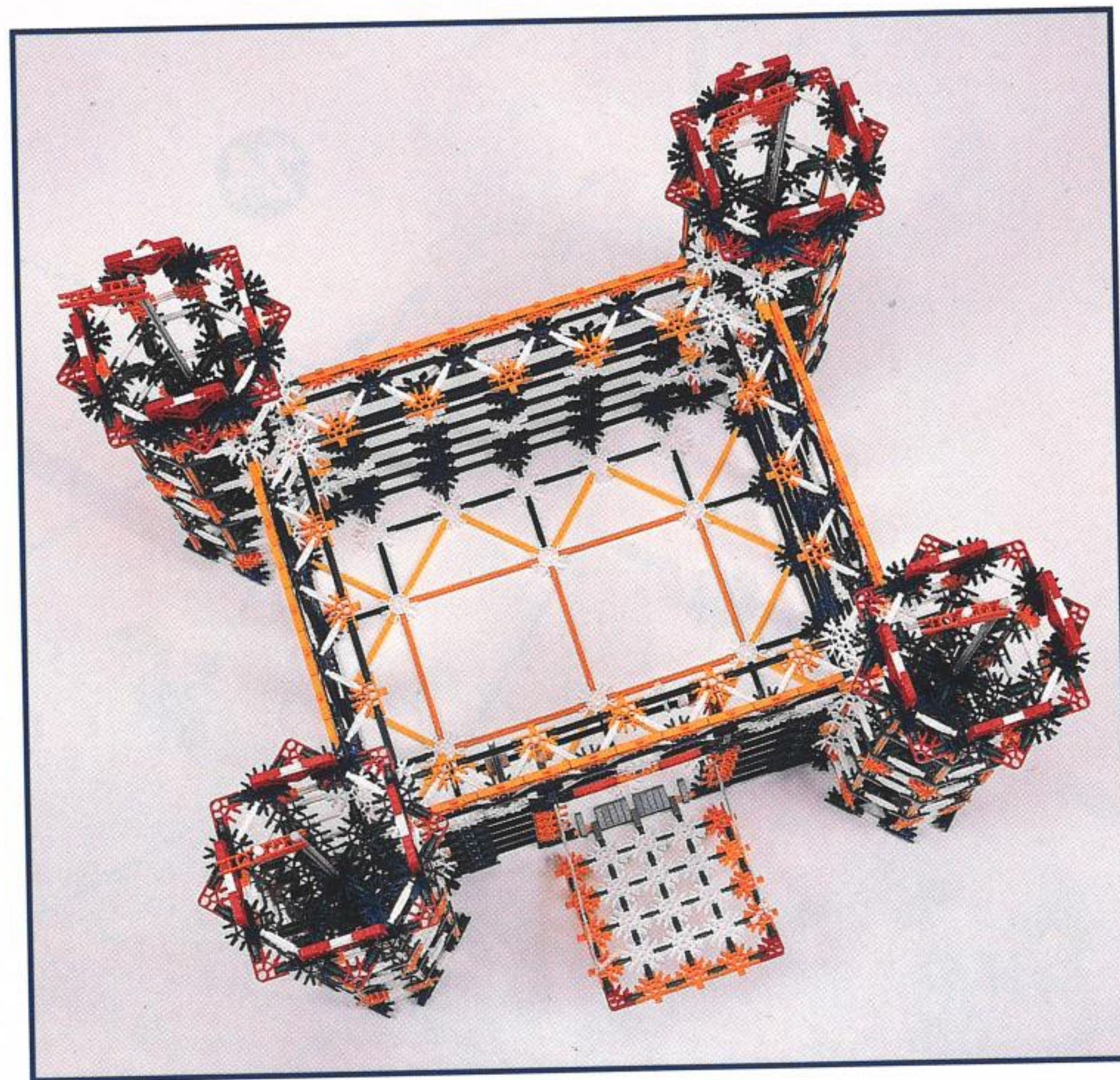


Some proud Viking Ship builders...
(from left to right):
Top row: Zach Radcliff, Stephen Mety, and Benjamin Ruth;
bottom row: Karen Thudium, Derek Thompson, and
Jacqueline Hackett.



Castle

Building a Castle is one of the biggest ideas of all. There are so many kinds you can make – copies of actual medieval castles or the castle of your dreams. Add a moat or a drawbridge or whatever you can imagine. Make yours the most special Castle ever.



You may not always have the exact K'NEX parts you need. So use other parts in combination as substitutes. Here are some examples—experiment and you'll find lots more.





K'NEX®

K'NEX is a registered trademark of K'NEX Industries, Inc. Manufactured under U.S. Patents 5,061,219, 5,137,486, 5,199,919, 5,238,438, 5,346,420, 5,350,331, 5,368,514, 5,421,762, 5,423,707, 5,427,559 and 5,518,435. Other U.S. and foreign patents pending.

Conforms to the Requirements of ASTM Standard Consumer Safety Specification on Toy Safety F963-95.

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www.knex.com



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