

Dear Parents,

Engineering is an extremely exciting and vast field. This kit, along with its illustrated storybook and instruction manual, provides an engaging way to teach simple physics and engineering concepts to preschool-age kids.

Read the story with your child and build the simple models of the amusement park rides and playground equipment described in the story. During their family trip to an amusement park, the main characters in the story build, fix, and enjoy various amusement park rides. As you follow along, your child can build 20 models of the rides and structures in the story with your help. Large, colorful plastic building pieces make it easy for small hands to put the models together.

The models are assembled step by step using a construction system. It will require a little practice and patience at first. Please assist your children when they need your help, but also let them try to build the models by themselves. Your children will be happy to have your help with the models or assembly steps that pose particular difficulties.

We wish you and your child lots of fun building, discovering, and learning!

Safety Information



- **>>> WARNING.** Not suitable for children under 3 years. Choking hazard small parts may be swallowed or inhaled.
- >>> Keep the packaging and instructions as they contain important information.
- >>> Store the experiment material and assembled models out of the reach of small children.
- >>> If the components should get wet, please dry and clean them thoroughly before the next use.

AMUSEMENT PARK ENGINEER



Story by Ted McGuire

Illustrations by Dan Freitas and Ashley Greenleaf

>>> KIT CONTENTS



Checklist: Find – Inspect – Check off

~	No.	Description	Qty.	Item No.
\circ	1	Ball track car body	1	7267-W85-B
\circ	2	Ball track car bracket	2	7267-W10-D10
0	3	Eye sticker for ball track car	1	567008-3
\circ	4	Eye	2	7261-W85-A
\circ	5	Medium dowel	2	7330-W11-A1T
0	6	Long dowel	2	7330-W11-B1D
\circ	7	6-hole panel	1	7330-W11-C10
\circ	8	4-hole curved rod	4	7330-W11-J1P1
\circ	9	6-hole straight track	2	7330-W11-K1G1
\circ	10	3-hole slide track	4	7330-W11-N1G1
\circ	11	1-hole end track	2	7330-W11-P1G1
\circ	12	Short dowel	8	7330-W11-X1T
\circ	13	Flag	1	7330-W11-ZA1G1
\circ	14	Straight track connector	8	7331-W10-A101
\circ	15	Curved track connector	4	7331-W10-B1B
\circ	16	Dowel block with top hole	8	7331-W10-D1G1
\circ	17	Cube block with peg	2	7331-W10-D3G1
\circ	18	Dowel connector	4	7331-W10-E101
\circ	19	Track holder	4	7331-W10-F1W
\circ	20	Small gear, green	2	7331-W10-L2G1
\circ	21	Small gear, purple	2	7331-W10-L2P1
\circ	22	Dowel block with side hole	9	7331-W10-M1G1
O	23	Wheel	3	8036-W85-C1D
\circ	24	Short axle	2	8060-W11-G1D
O	25	Long axle	1	8060-W11-H1D
O	26	Cube block, peach	1	880-W10-A1PO
\circ	27	Cube block, white	6	880-W10-A1W
O	28	Convex block, white	4	880-W10-R1W
\circ	29	Concave block, white	6	880-W10-D1W

GOOD TO KNOW!

If you are missing any parts, please contact Thames & Kosmos customer service.

Meet the Omega Family!

Ty and Karlie Omega are siblings. They live in a small city called Makersville. Ty and Karlie's dad is a writer. He writes science fiction stories. Their mom is a mechanical engineer. She designs big machines used in factories.

They live in an awesome warehouse filled with tools, equipment, and building materials. There are always a number of projects going on in the warehouse.

Ty loves figuring out how things work. Karlie loves building things.

When Ty and Karlie were little, Ms. O designed Huxley, a robot that can build just about anything. For one of his first projects Huxley converted Karlie's teddy bear, Remus, into a walking, talking science bear. Now Huxley and Remus are like members of the Omega family.



Ty and Karlie's Amusement Park Adventure begins ...

ne hot summer day, while the Omega family was eating breakfast, Mr. O suddenly jumped up with an excited look in his eyes.

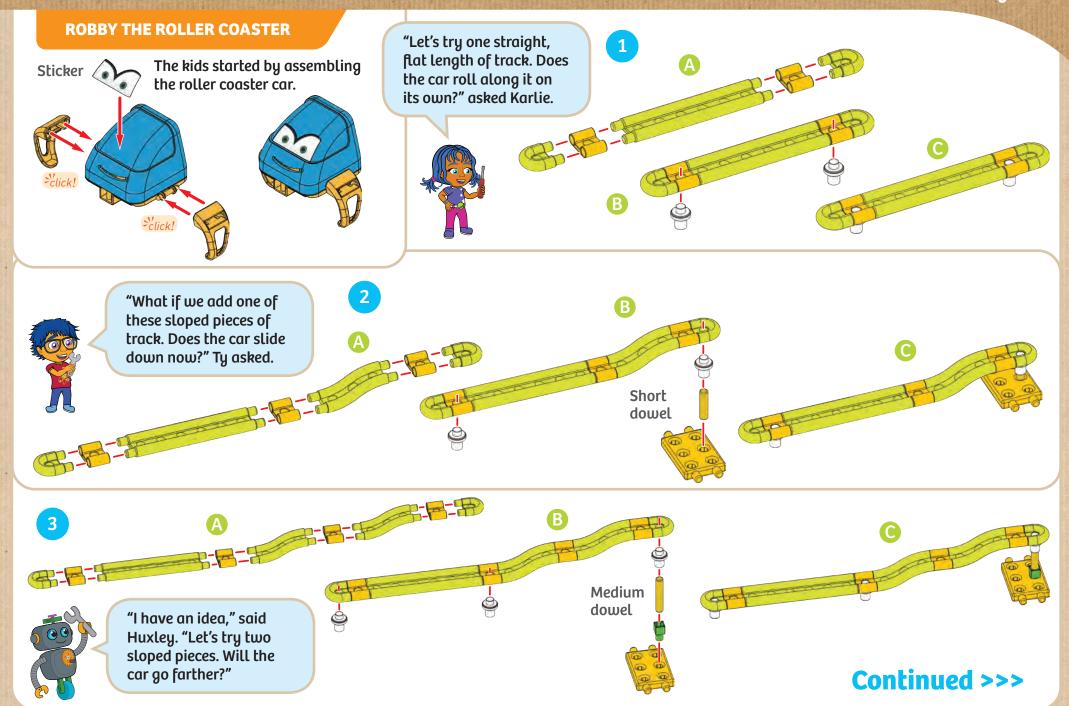
"I have an idea! Let's go to the amusement park today!"

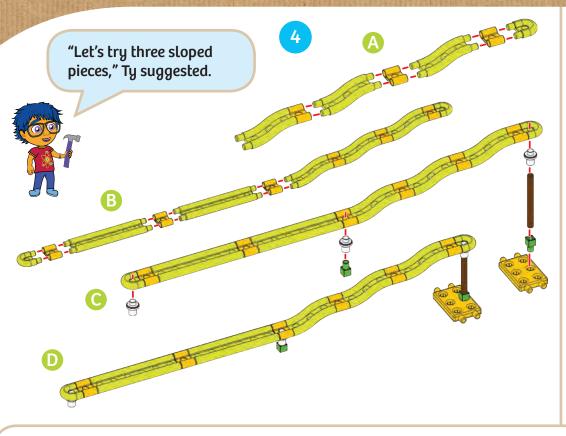
"Yes!" shouted Ty and Karlie in unison.

The whole family piled into their bus and headed to the amusement park.



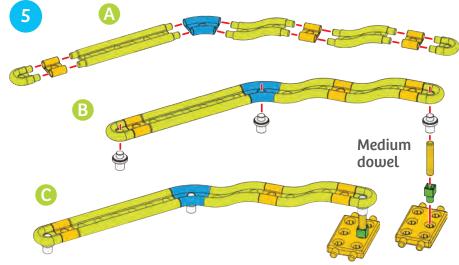


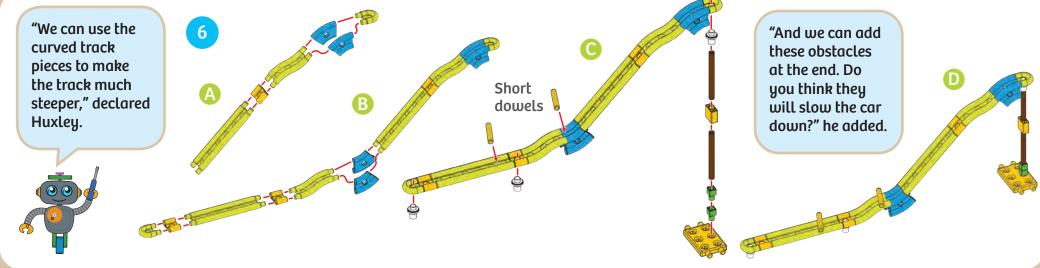


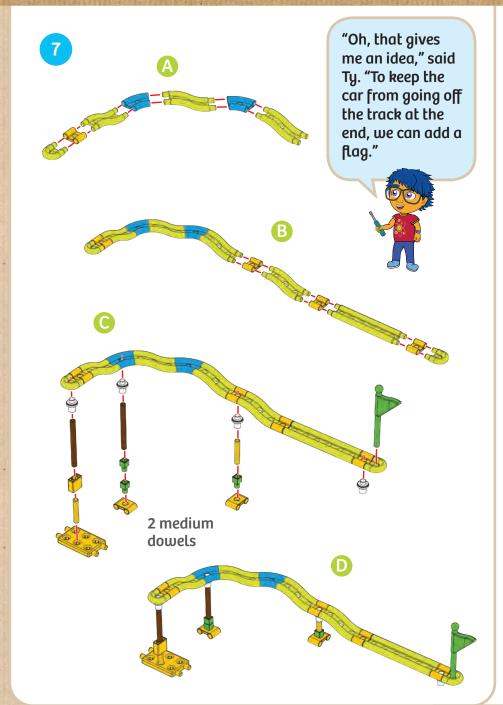


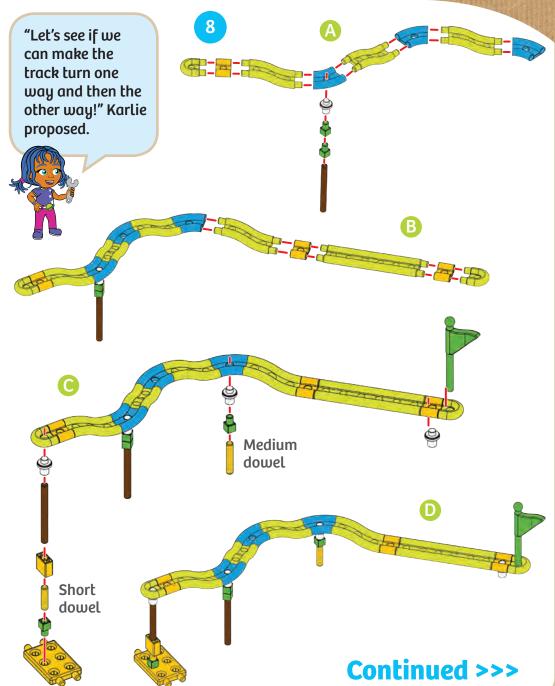
"I know what's happening! An invisible force called gravity is pulling the car down the sloped track," explained Karlie. "The higher the track, the faster the car travels by the end. Now what if we add a curved track?"

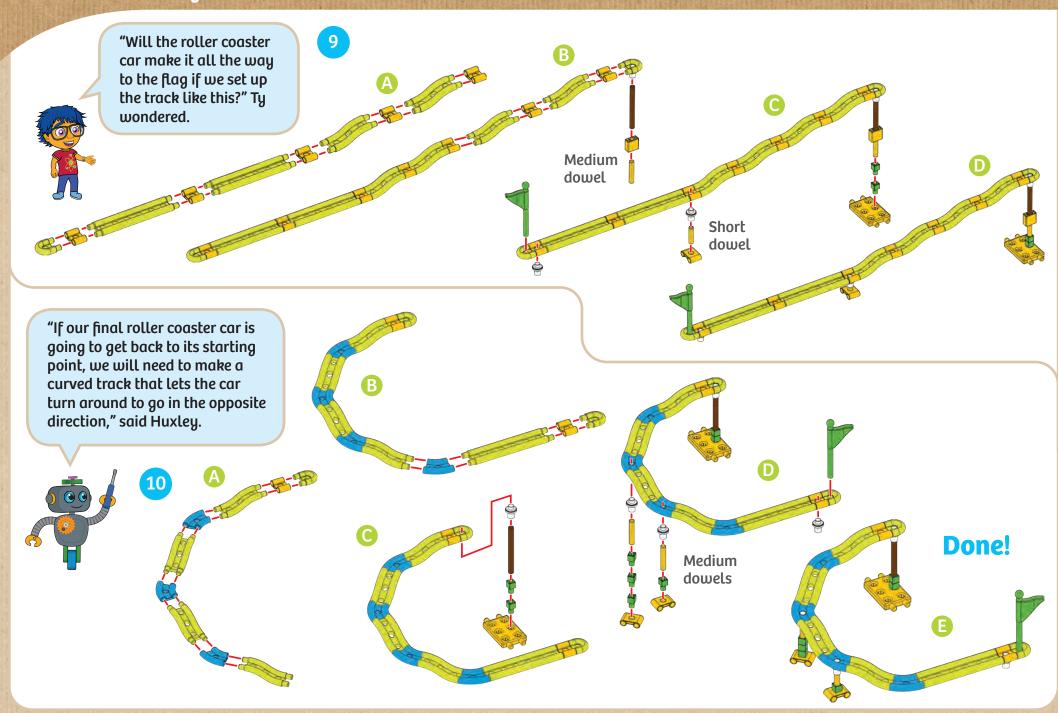






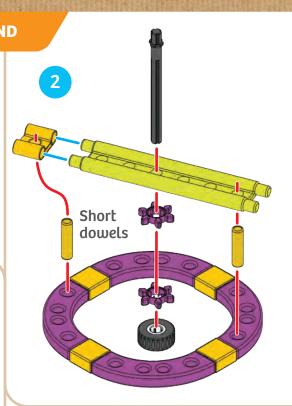


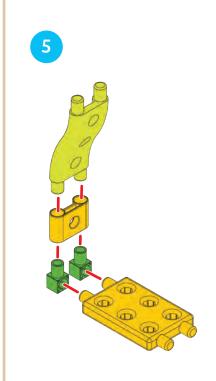


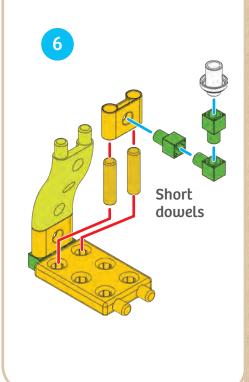


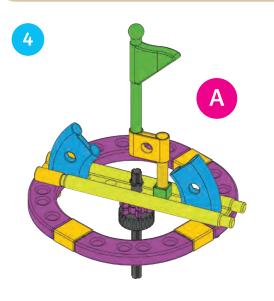


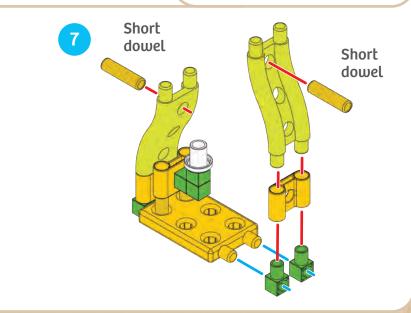
MARY THE MERRY-GO-ROUND Medium dowel

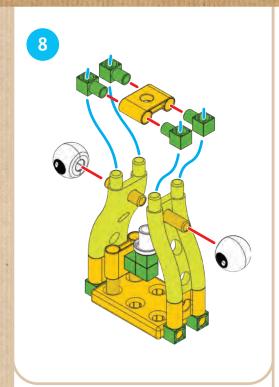


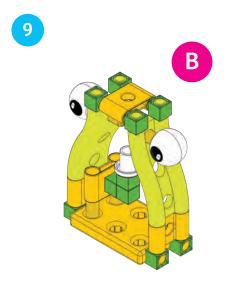


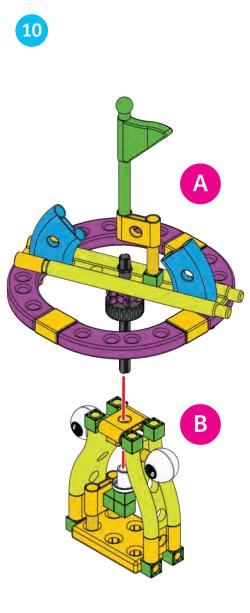


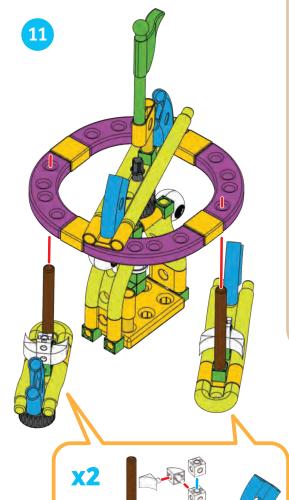












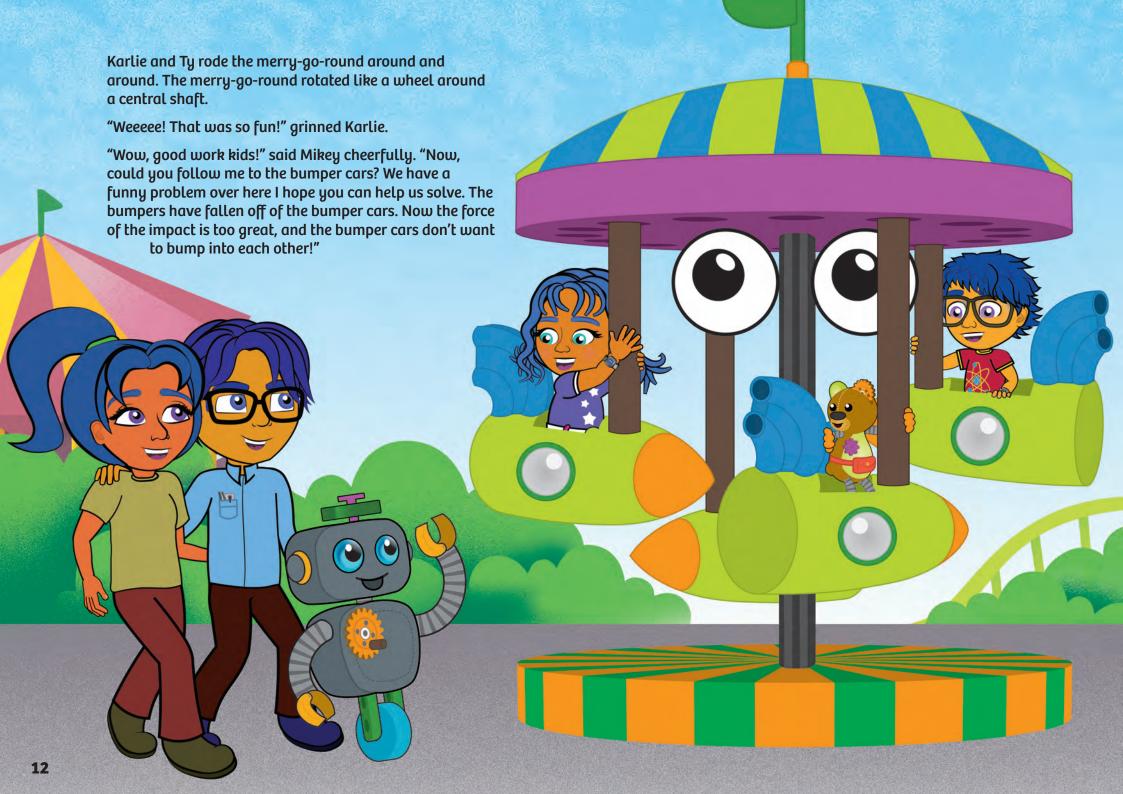
Short dowel



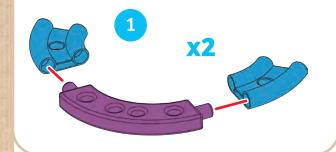


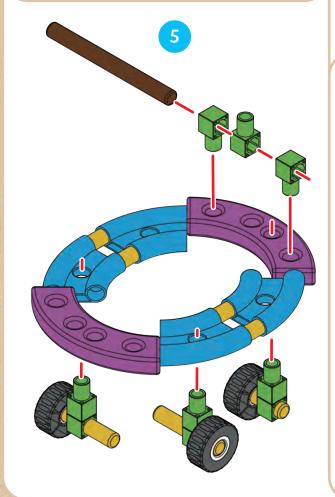
Huxley and the kids fixed the merry-goround.

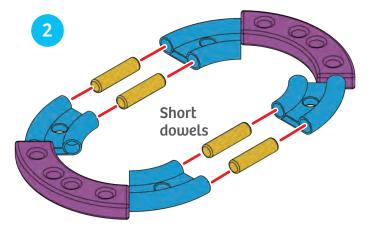
"Now I can spin on my central axis!" Mary the Merry-Go-Round said.

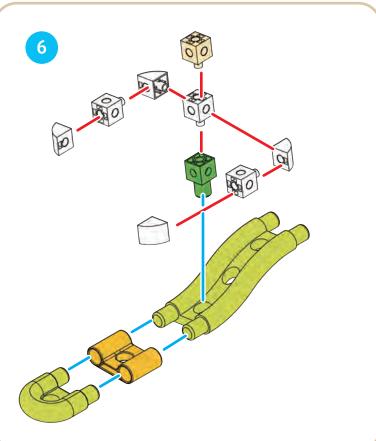


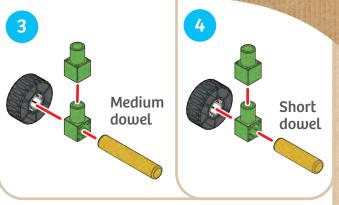
BOB THE BUMPER CAR

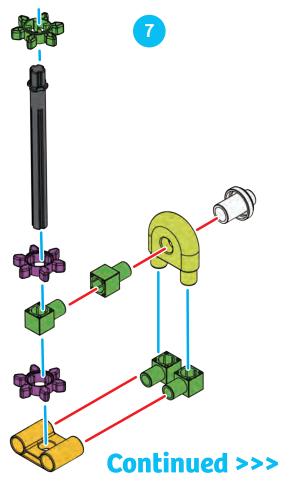


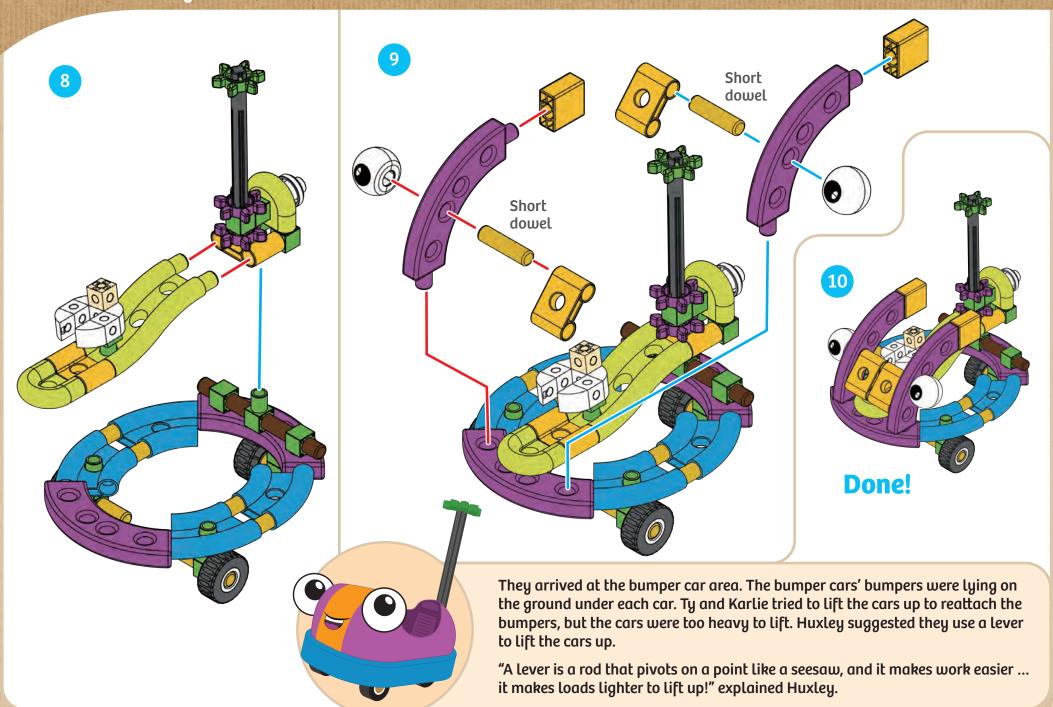


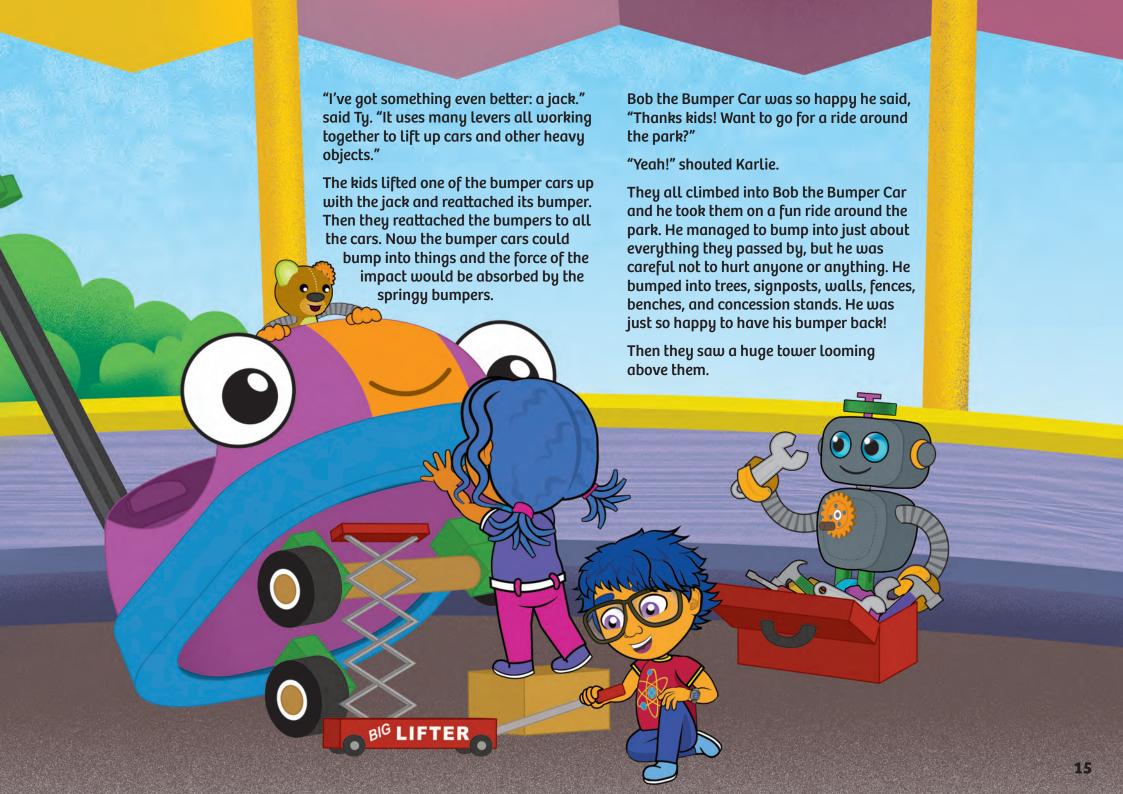


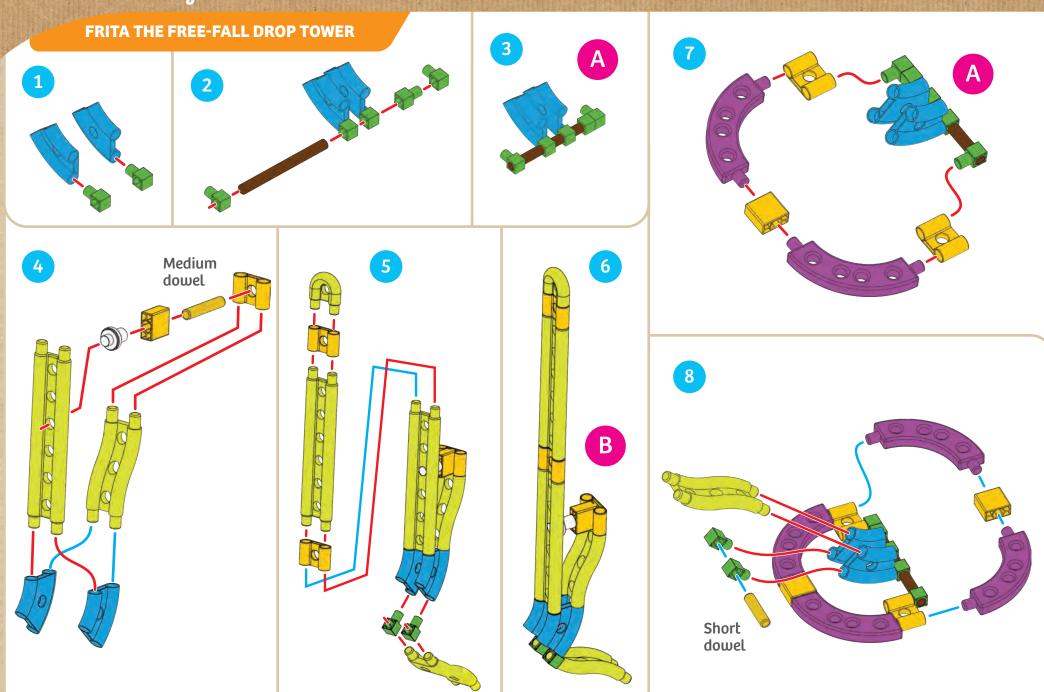


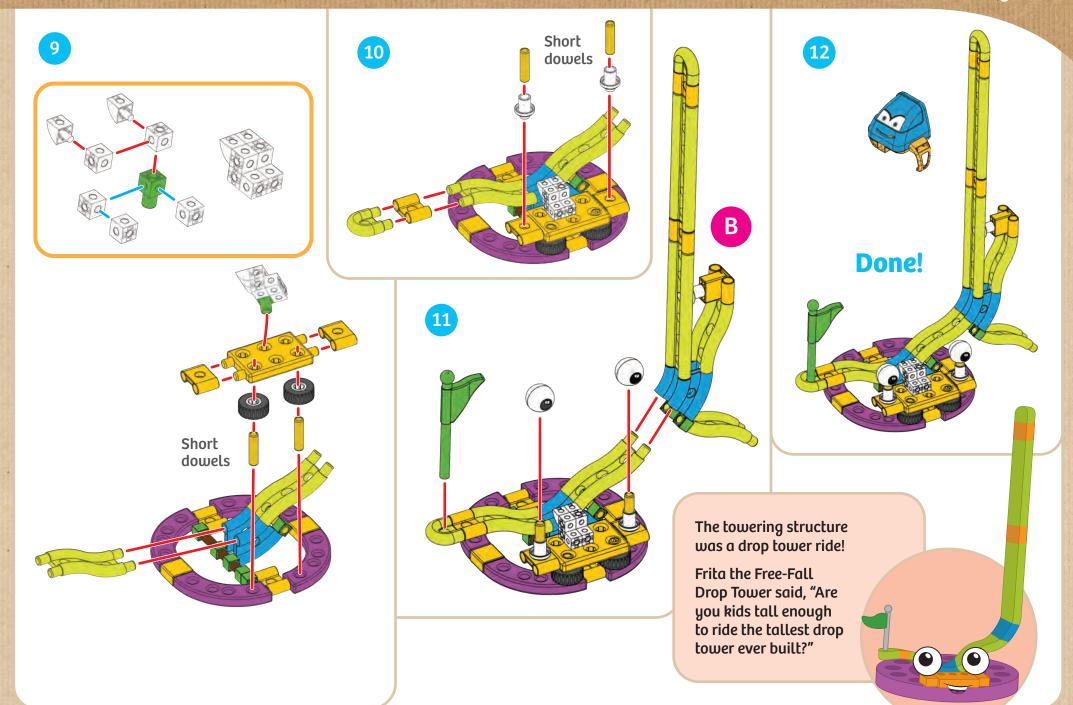


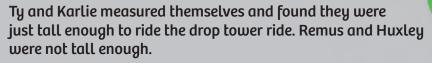












Ty and Karlie got into the drop tower car. The car climbed up to the top of the tower. At the top, they could see for miles around. Then the car was released and it fell down the track very fast. It was thrilling.

"Do you know what makes the ride work?" asked Frita as they exited the car.

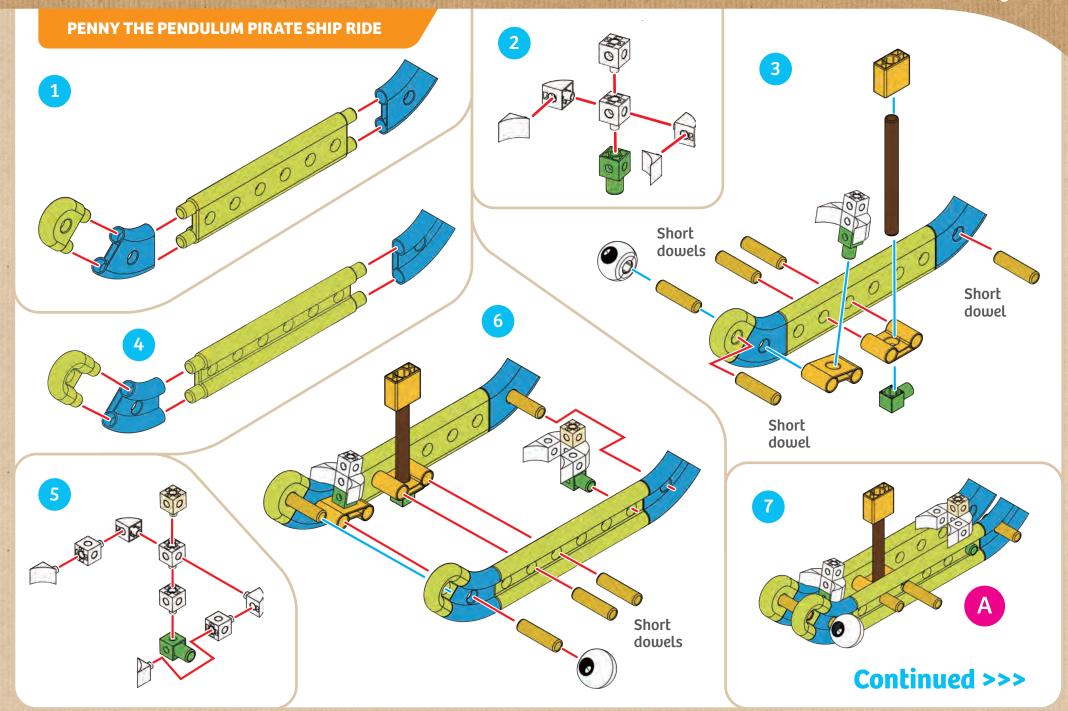
"Gravity!" shouted both Karlie and Ty in unison.

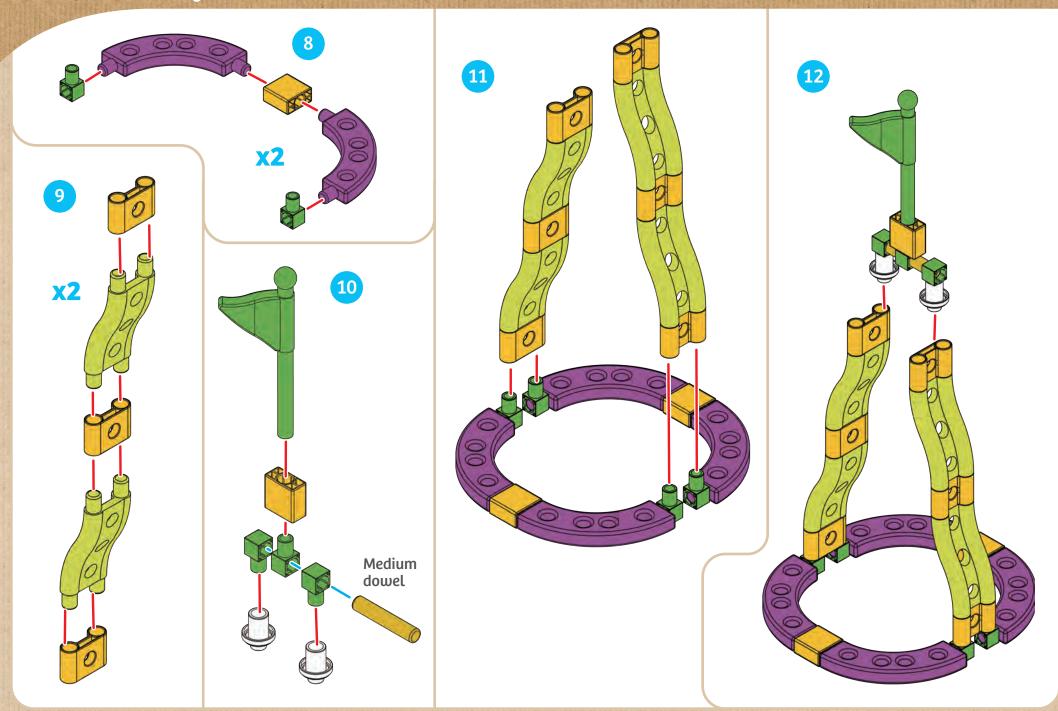
"That's right," said Frita. "Gravity is an invisible force between all objects. It makes objects attracted to one another. The bigger an object is, the greater its force of attraction is. Earth is so big that it has a very strong gravity that pulls us all toward it. That's why you don't float off into space. It's also why the car falls downward."

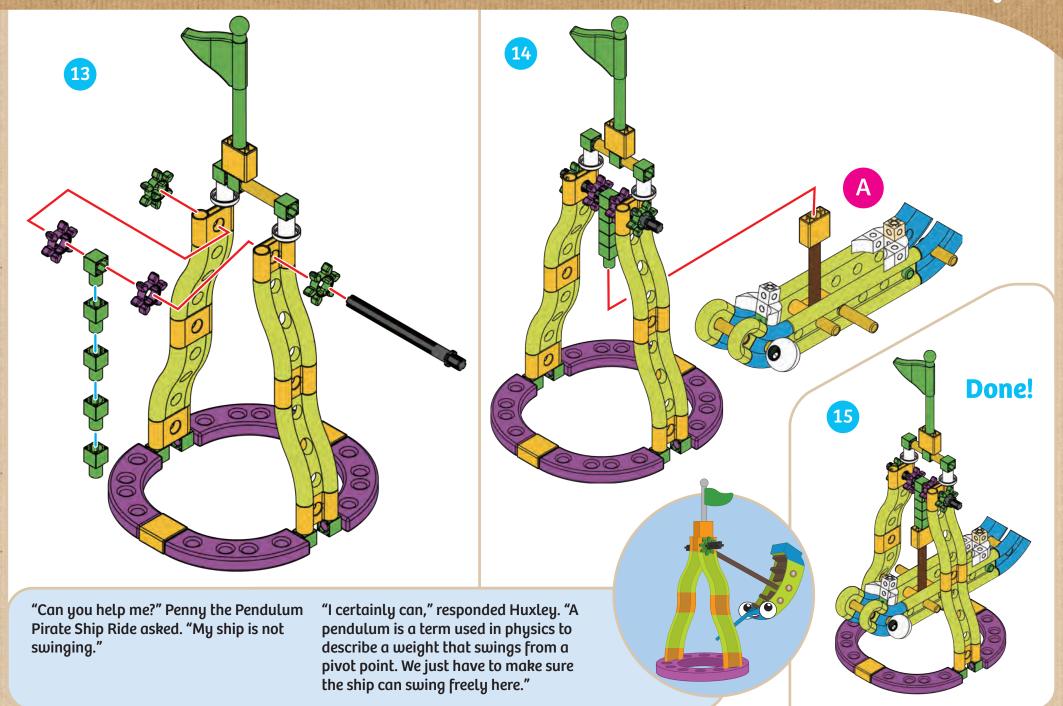
"Like the roller coaster," added Karlie.

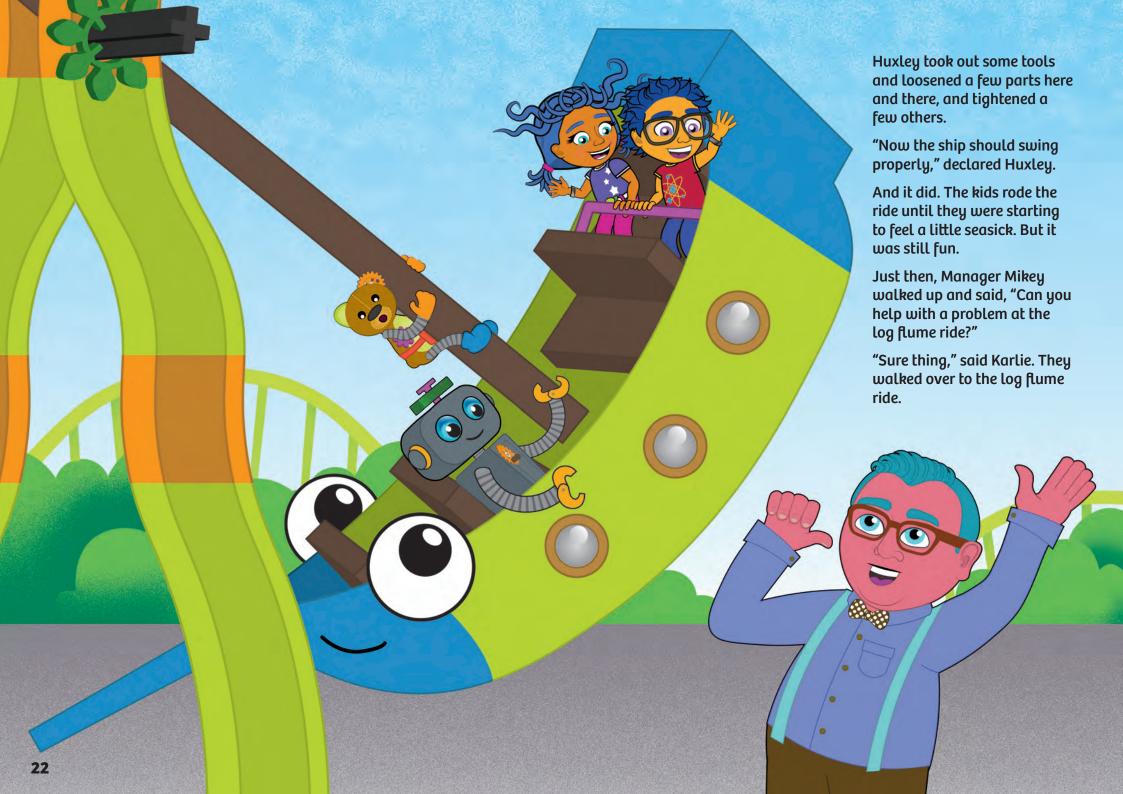


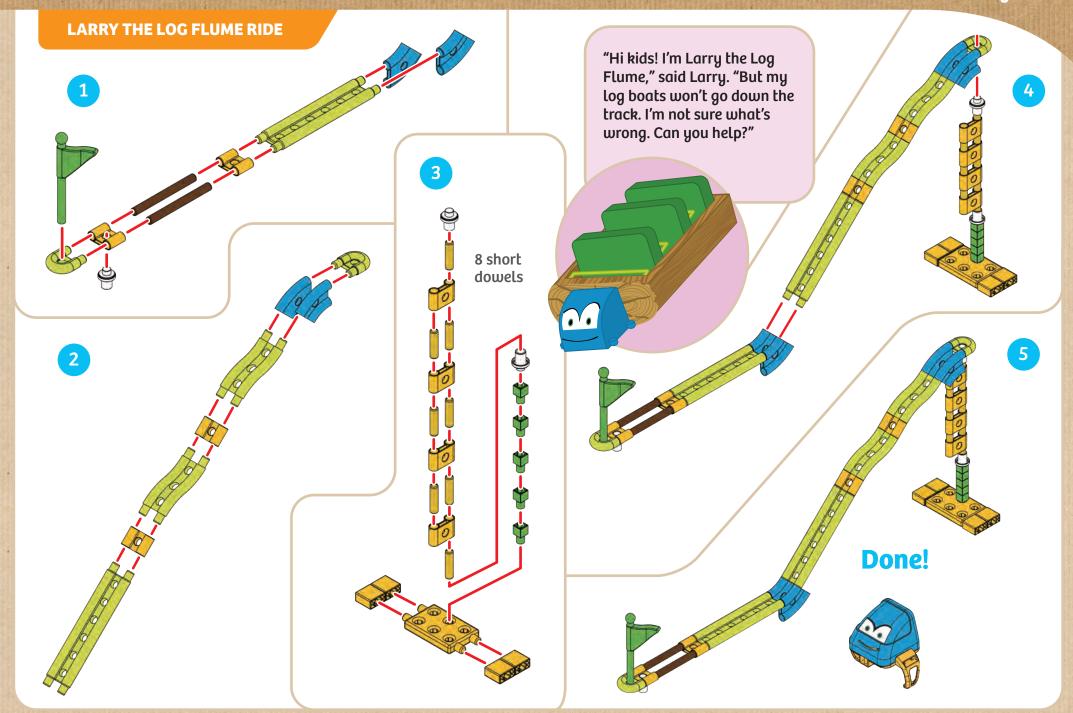


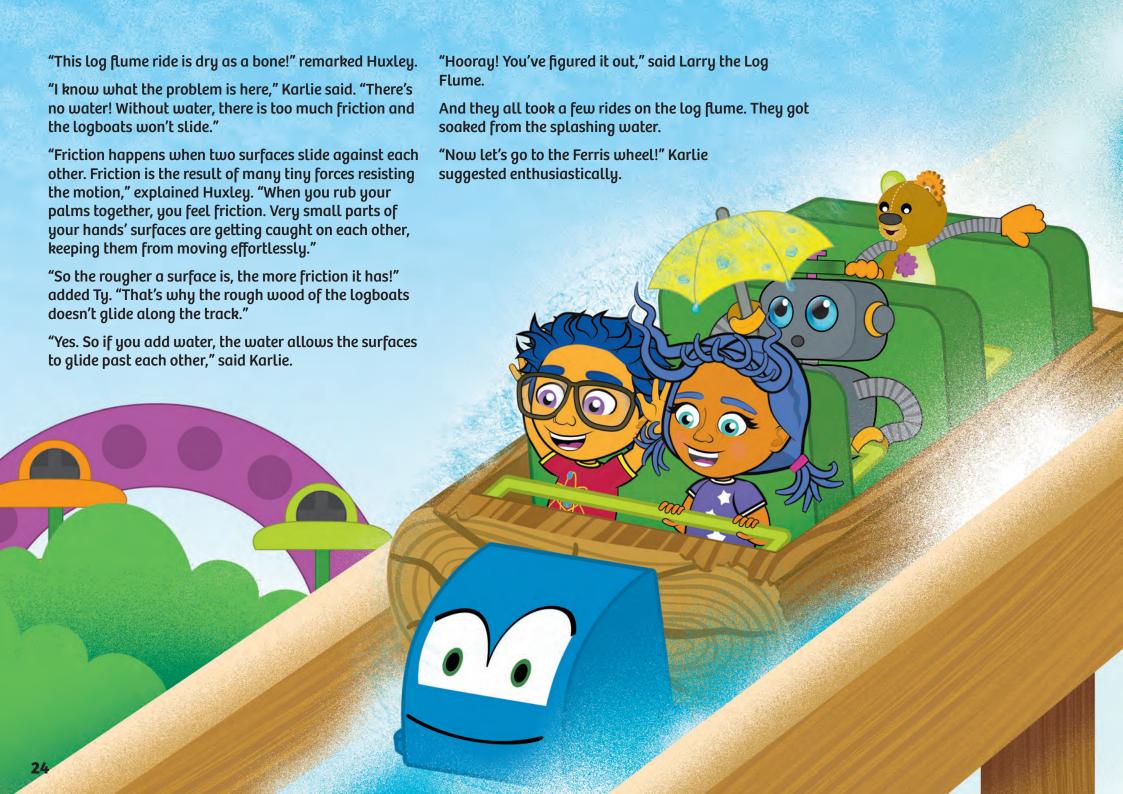




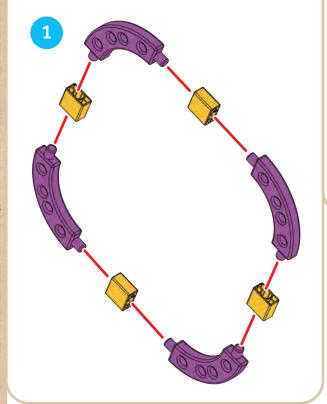


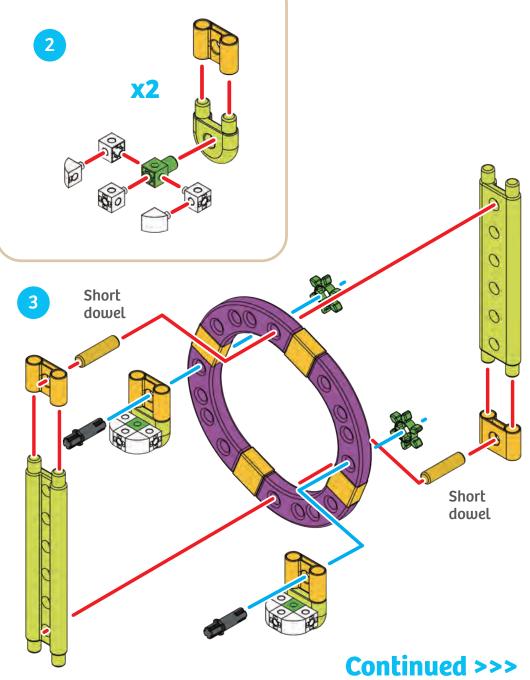


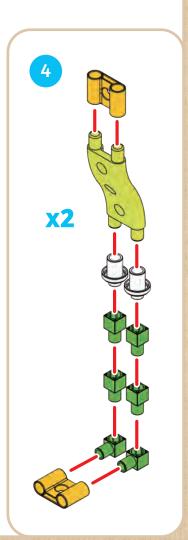


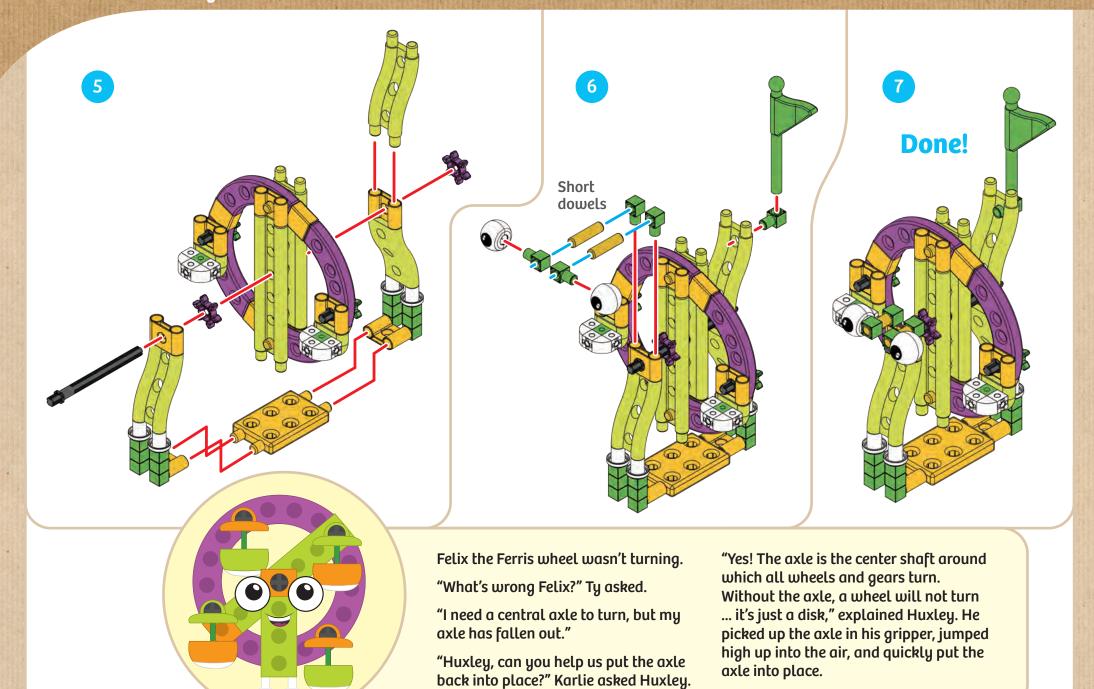


FELIX THE FERRIS WHEEL

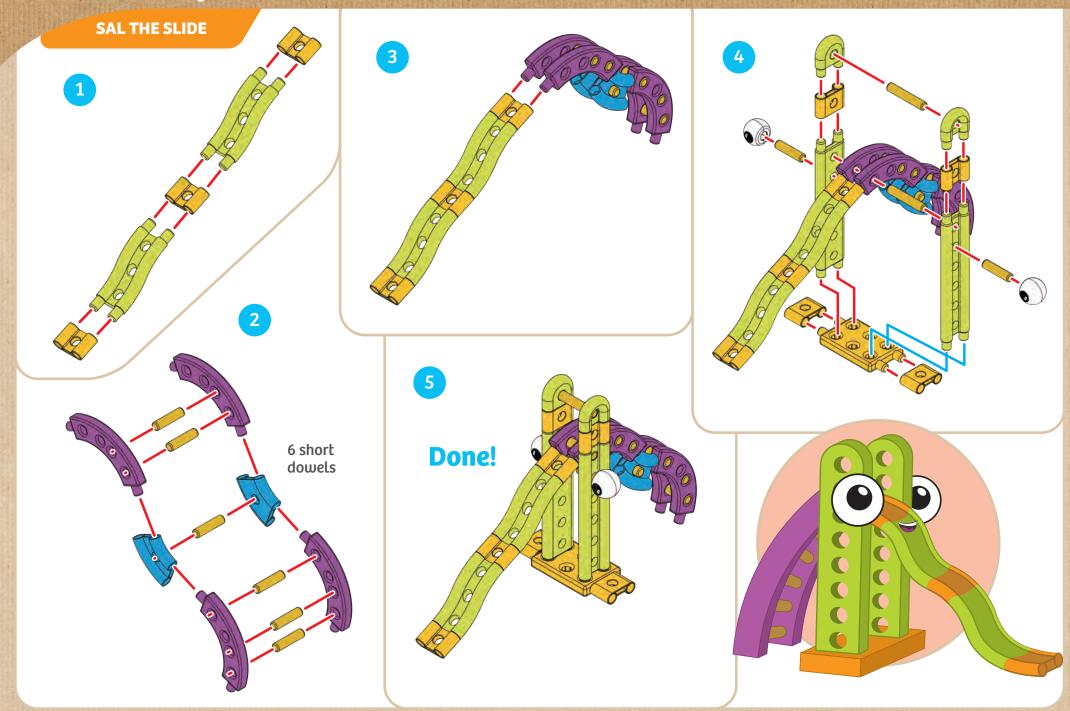


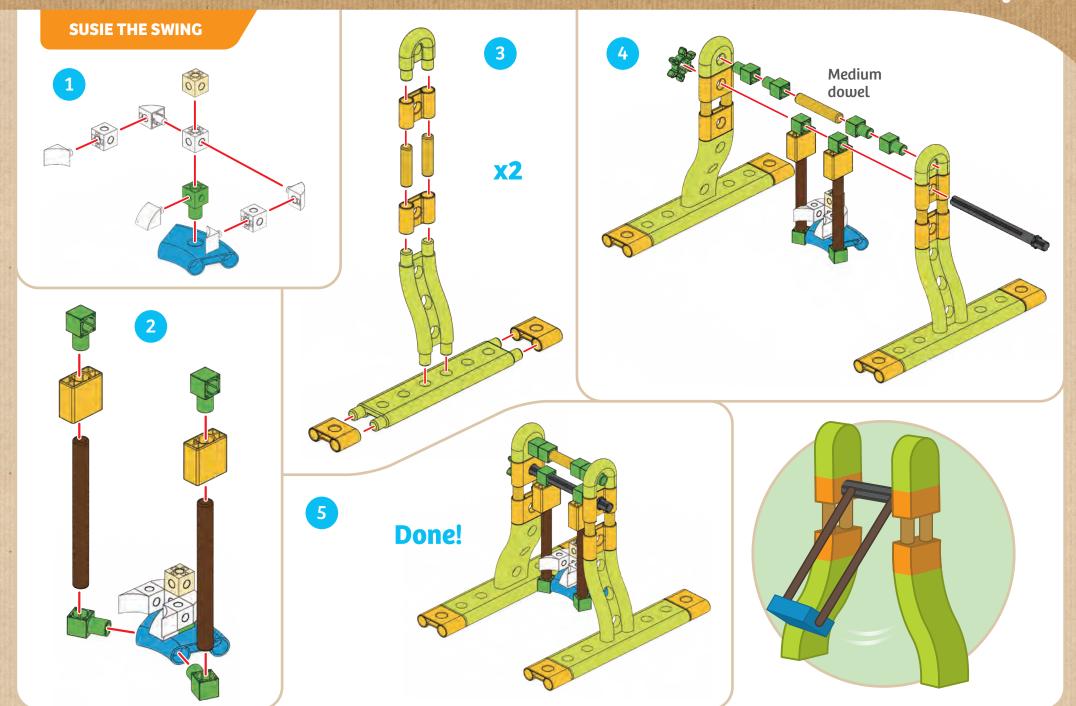




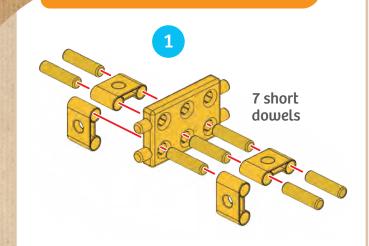


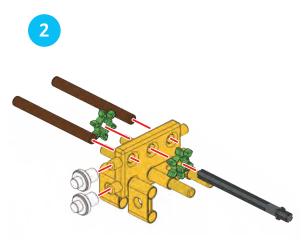


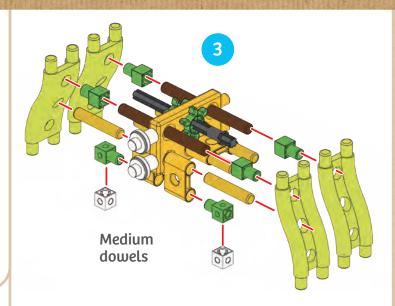


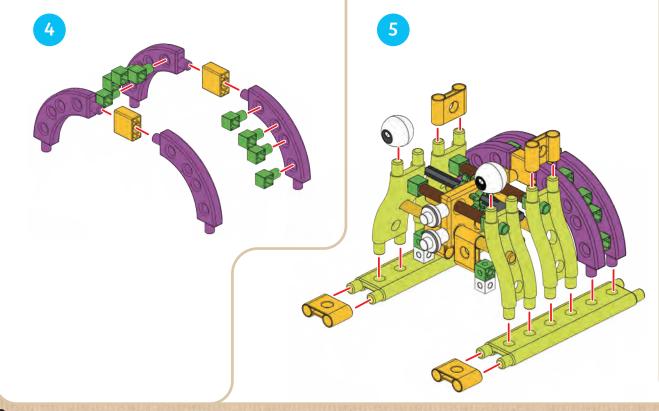


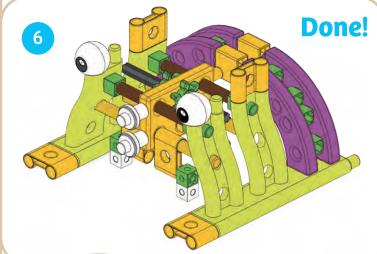
GINNY THE JUNGLE GYM



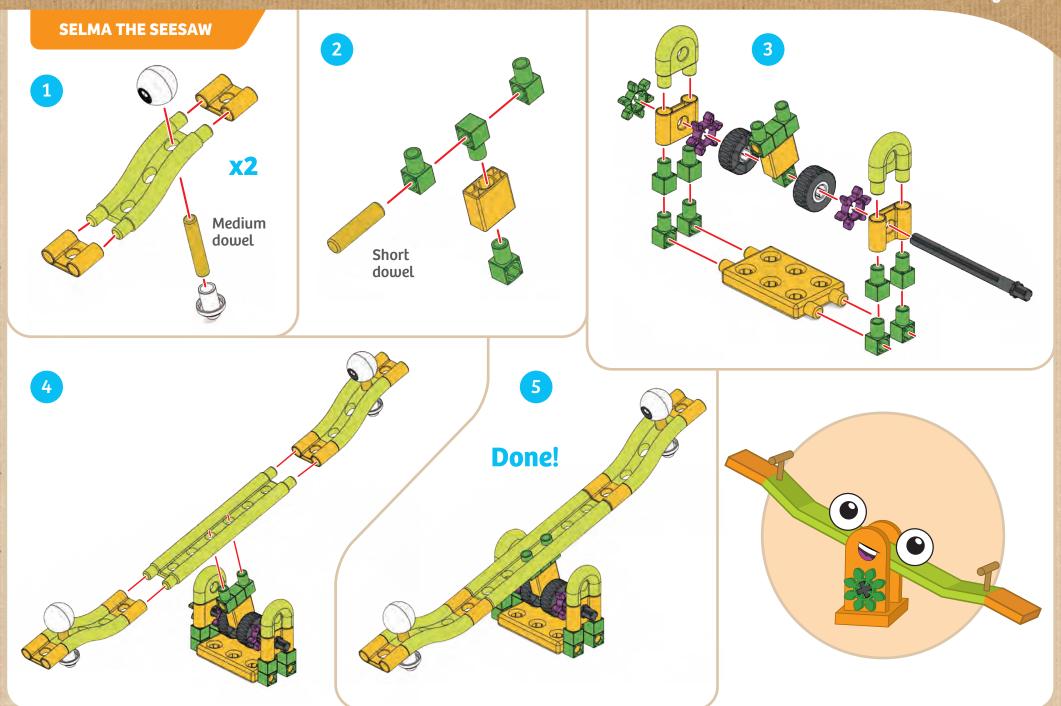














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