

**BUILD** a Ferris Wheel!

1. Assemble the outer ring of the wheel using the provided colored pieces.

2. Attach the inner support structure to the ring.

3. Add the passenger cars to the spokes.

4. Connect the axle to the motor base.

5. Attach the support pillars to the base.

6. Add the decorative top structure.

7. Connect the motor to the battery pack.

8. Attach the axle bracket to the motor.

9. Final assembly of the Ferris wheel.

Use square piece with one tab.

Axle

Snap axle bracket securely in place.

**BUILD** a Chair Swing!

1. Assemble the circular frame of the swing.

2. Attach the motor to the base.

3. Add the support structure to the motor.

4. Connect the frame to the motor.

5. Attach the seats to the frame.

6. Final assembly of the chair swing.

String not included.

**WIRE**

Use your motor to **WIRE** a fan  
 (You'll need 2 AAA batteries).

1. Battery pack

2. Use the screwdriver to unscrew the top off of the battery pack

3. Match + on the batteries to + on the battery pack and put inside.

4. Connect red to red, and blue to blue. By plugging the matching wires together, it ensures the fan turns counterclockwise. If you plugged red to blue, the motor would rotate the other way!

5. Connect the motor to the battery pack by plugging the wires together.

6. Attach the fan to the motor.

7. Attach the fan to the motor.

8. Final assembly of the fan.

Screwdriver

Motor

Do not aim at eyes or face.

**BUILD** a Carousel!

1. Assemble the carousel base and support structure.

2. Attach the motor and horses to the base.

String not included.

Use your motor to make a chair swing, ferris wheel, carousel and so much more!

Actual color of pieces in your set may be different from those shown here. Also, there's more than one way to build your Carnival; we've just shown you one way here, but you can get creative and try your own way!



Connect your circuits to rPower\* to control them remotely from a smartphone or tablet!  
 \*Sold separately.





Hi there! I'm Bettina and I am ready to play at the carnival. Are you ready to play, too?

**ABOUT BETTINA**

**Favorite Activities:** Making ice cream, programming games on my laptop, and playing with Alice and her dog Harrie at the park!

**Favorite Foods:** Pasta and pie!

**Favorite Project:** Engineering my own computer!

**Favorite Scientist:** Grace Hopper

**Fun Fact:** I love making jewelry using my soldering iron!

**I Want to Be:** An electrical engineer so that I can design medical devices, toys and automatic pasta maker. Oh, and rocket ships, too!

Hi there! I'm Jenna and I love hanging out at the carnival. Are you ready to design some awesome fun rides for me?

**ABOUT JENNA**

**Favorite Activities:** Reading, playing games and hanging out with friends.

**Favorite Foods:** Pizza and doughnuts

**Favorite Project:** Building fun picture frames!

**Favorite Scientist:** Charlotte Scott

**Fun Fact:** I love going for long drives and singing along with the radio!

**I Want to Be:** A calculus professor because I love math, and I enjoy teaching people how to solve problems!



Build the world **you want to play in**

by collecting all of the Roominate® kits!



Zoey's Pet Vet Van



Cozy Corner Café



Emma's Townhouse



Sophie's Ice Cream Cart



Alice's Mansion

The creative wired building kit™ **roominate**®  
Switch on Your Imagination™

Ages 8+

Cotton Candy **Carnival**  
Instructions + Ideas!



Note: To make the small ring toss sticks, ask an adult to use scissors to cut the white sticks in the set.

Collect all of the dolls, pets and Roominate® kits!



- IMPORTANT BATTERY SAFETY INFORMATION**
- In exceptional circumstances, batteries may leak fluids that can cause a chemical burn injury or ruin your product. To avoid battery leakage:
    - Adult supervision is recommended when changing batteries.
    - Non-rechargeable batteries are not to be recharged.
    - Rechargeable batteries are to be removed from the toy before being charged.
    - Rechargeable batteries are only to be charged under adult supervision.
    - Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.
    - Do not mix old and new batteries.
    - Only batteries of the same or equivalent type as recommended are to be used.
    - Batteries are to be inserted with the correct polarity.
    - Exhausted batteries are to be removed from the toy.
    - The supply terminals are not to be short-circuited.
    - Dispose of battery(ies) safely.
    - Batteries may explode or leak if disposed of in a fire.
    - The toy is not to be connected to more than the recommended number of power supplies.

Want to be famous? Email a photo of your creation to [mydesign@roominatetoy.com](mailto:mydesign@roominatetoy.com) or tweet @roominate and we'll post it on our website!



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.  
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: - Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver. - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help.  
Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



Alice and Bettina became friends in their university's master's engineering program, and soon discovered that they were both inspired to pursue engineering by childhood toys. To help inspire the next generation of innovators, Alice and Bettina designed Roominate®!

