

BUILT FOR SPEED

(Layla and the Bots #2)

Text © 2020 by **Vicky Fang**.
Illustrations by **Christine Nishiyama**



My advice for those who want to become writers

Writing is a lot like inventing! Just like when I invent a product, these are the 4 I's I follow to create a book:

- * Investigate (read books!)
- * Ideate (brainstorm!)
- * Implement (write lots!)
- * Improve (revise!)

So read lots of books and believe in your ideas!
Happy inventing!

Hi, I am Vicky Fang. I am a product designer who spent 5 years designing kids' technology experiences for both Google and Intel, often to inspire and empower kids like you in coding and technology. I started writing to support the growing need for early coding education, particularly for girls and kids of color. I am the author of nine new and upcoming STEAM books for kids, including *Invent-a-Pet*, *I Can Code*, *Layla and the Bots*, and my author-illustrator debut, *Friendbots*.

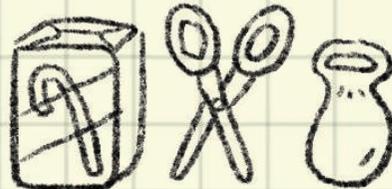
Find out more about me (and check out many more activities!) at www.vickyfang.com.



DESIGN AND BUILD YOUR OWN

YOU'LL NEED THE FOLLOWING ITEMS:

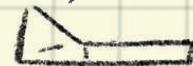
- 1 empty juice box, with a straw
- 1 balloon
- Duct tape
- Scissors
- 1 rubber band
- Bathtub filled with water



NOTE: Pull and stretch out the balloon a little before starting your experiment.

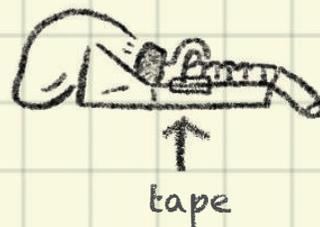
STEP 1. BUILD THE BOAT

- Lift the triangular flaps at the top of your juice box. Flatten the top half of the box, leaving the bottom half sticking up. This will be your boat.



STEP 2. BUILD THE ENGINE

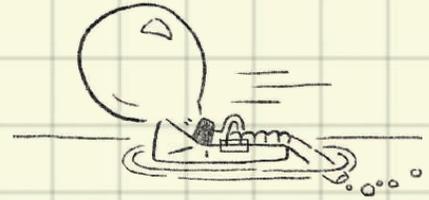
- Tightly wrap the rubber band around the balloon's opening with the straw inside it. This will hold your balloon and straw together. Now you have a balloon engine!
- Place your balloon engine on top of your boat. The straw end should hang down off the flattened side of the boat.
- Tape the straw to the boat.



BALLOON SPEEDBOAT!

STEP 3. TEST AND FIX

- Using the straw, blow up the balloon. Hold the air in by quickly covering the straw opening with your thumb.
- Place the boat in the tub, with the straw end under the water.
- Let go! Watch your boat zoom through the water.



STEP 4. ROCK OUT!

- Have fun! Experiment with different-sized juice boxes and the amount of air you blow into the balloon to see what changes.
- Give your boat a fun name, and draw a picture of your design.
- Decorate your boat. Try adding new parts to it, like a sail or a rudder. Do these new parts change how your boat moves?

