Print & Fold Activity Cards.

Instructions.



Print this file.

When printing be sure to set the "size" to **"Actual size"** in our printer settings.

O2 Fold.

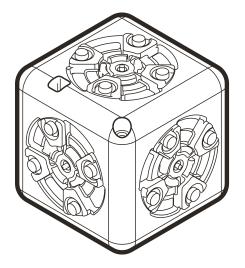
Fold each sheet in half along the dotted line.



Laminate or tape.

Laminate or tape the folded card together to create a durable teaching tool for your Cubelets robot blocks!

cubelets

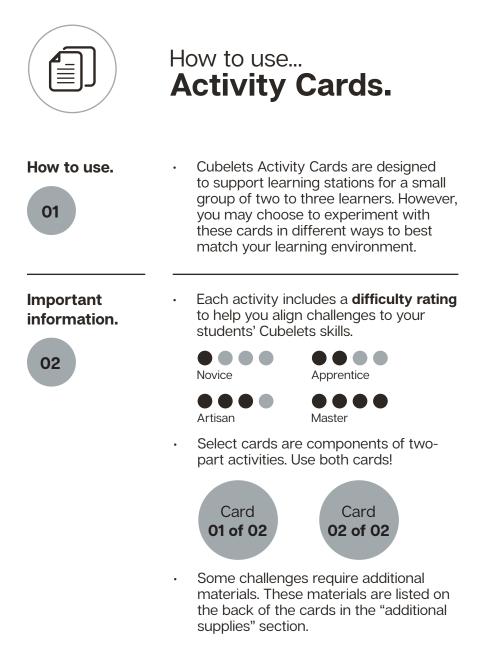




Cubelets® is a registered trademark of Modular Robotics Incorporated.

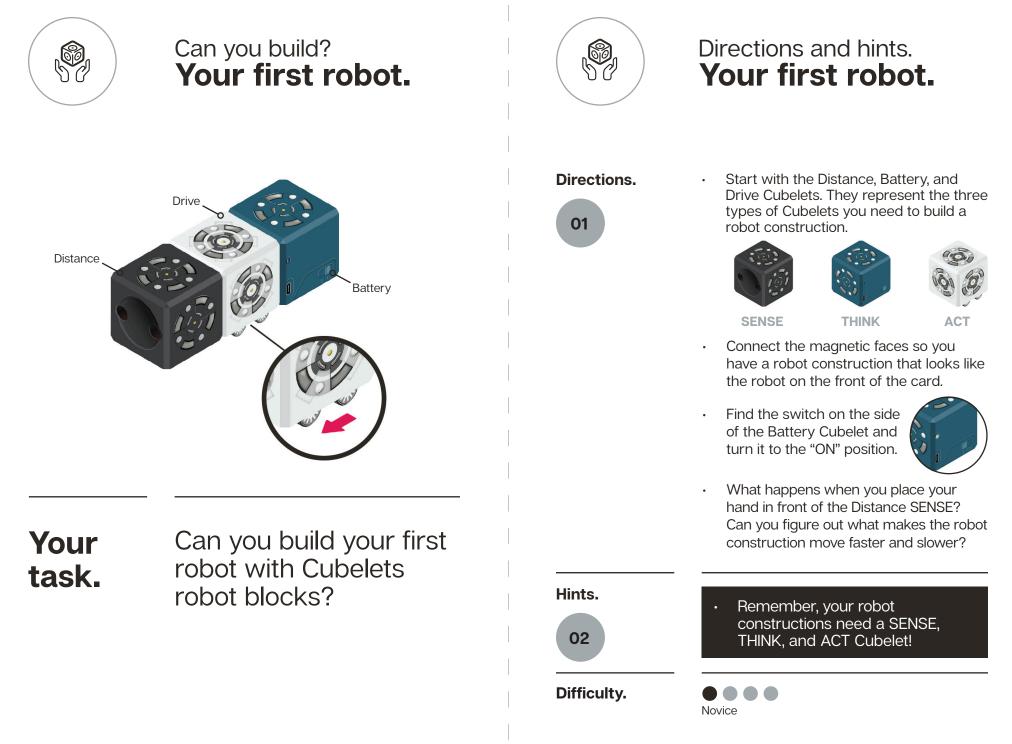
1860 38th St. Boulder, CO USA www.modrobotics.com

Build. Invent. Draw. Learn. ar



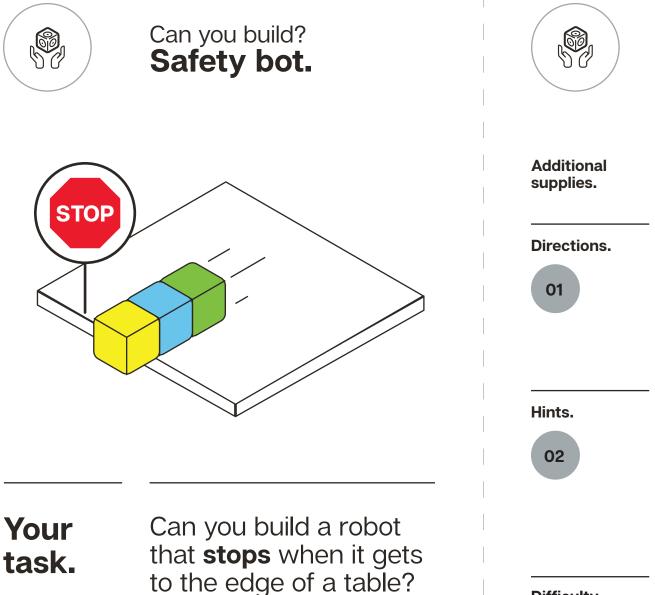
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A light-colored table. A pillow or box of soft things to catch falling robots. Design a robot that can move across a table and automatically stop before falling off. **Do not** try to catch your robot when • it goes near the edge of the table. Instead, use a pillow or box full of soft things (crumpled paper, foam, etc.) to catch your robot if it falls. The safety bot works best on a light-colored table. By default, Drive Cubelets only move in one direction. What direction should your SENSE Cubelet face? How can you slow down your robot so it has time to stop? **Difficulty.** Artisan

Directions and hints.

Safety bot.

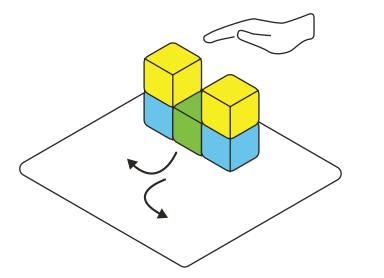




Can you build? **Steering bot.**



Directions and hints. **Steering bot.**



Your task.

Can you build a robot that can **turn both left and right**?

| Additional supplies. | A clean, smooth surface for your robot to drive on. |
|----------------------|--|
| Directions. | Construct a robot that can turn left or right <u>without needing to be</u> <u>reassembled</u> in order to make a turn. |
| Hints. | You might need to use two SENSE Cubelets. You might need two Drive Cubelets. Or you might try using a Rotate. Or you might try using a Blocker. If you don't have a Blocker Cubelet, use the Cubelets app and Personality Swap to make one with a THINK Cubelet! |
| | |
| Difficulty | |

Difficulty.

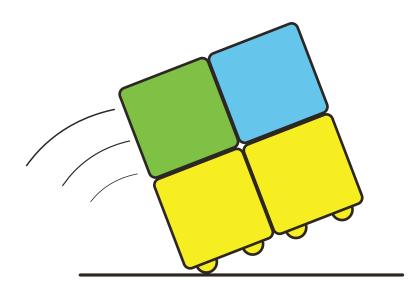




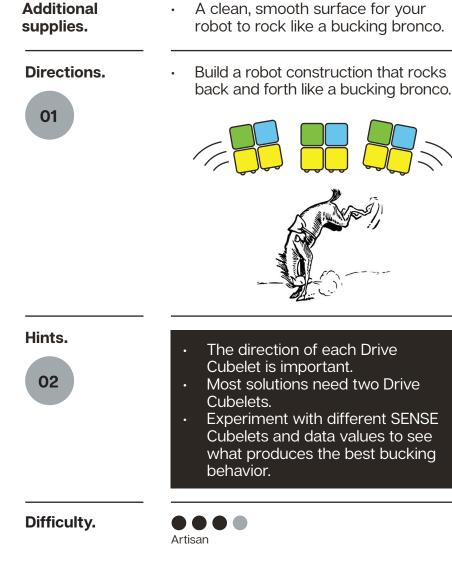
Can you build? **Bucking bronco.**

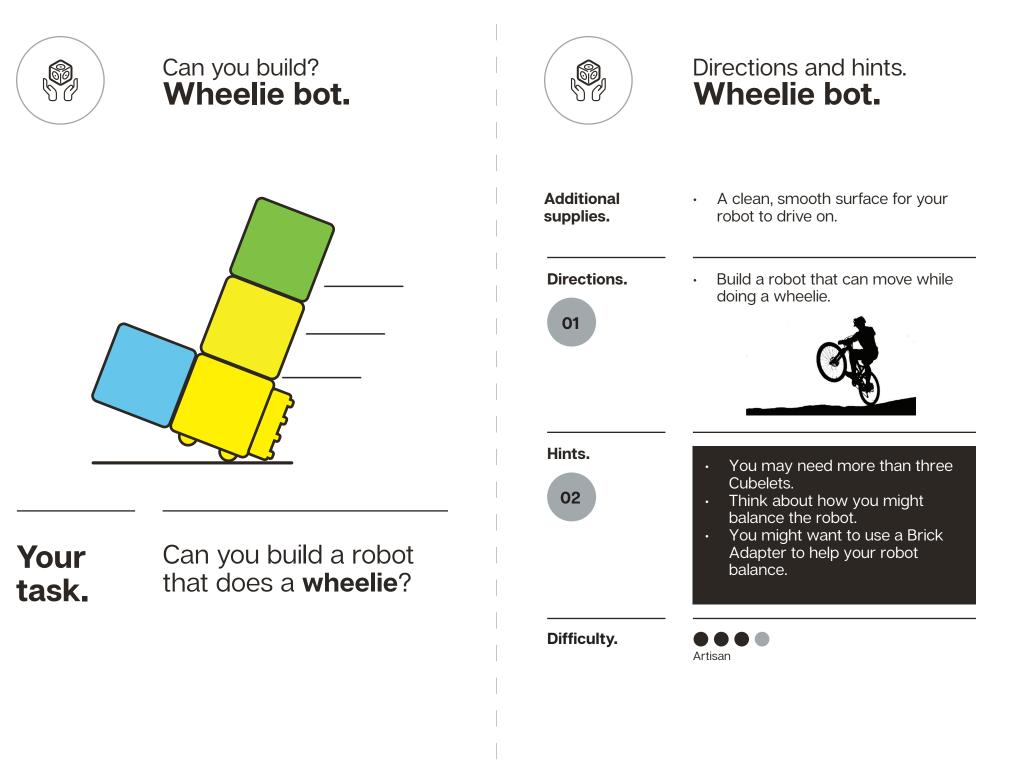


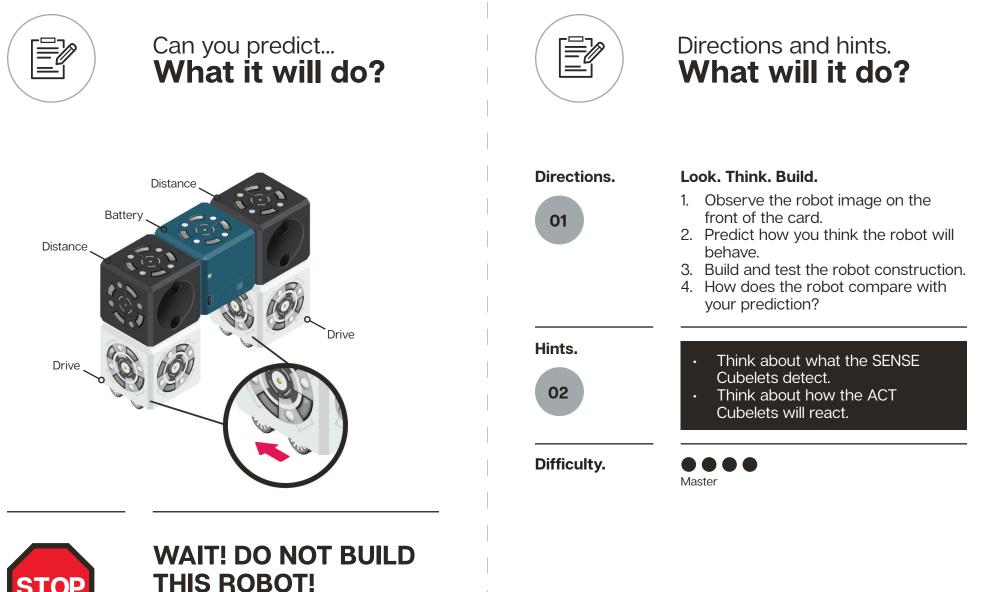
Directions and hints. Bucking bronco.



Your task. Can you build a robot that **rocks back and forth** like a bucking bronco?



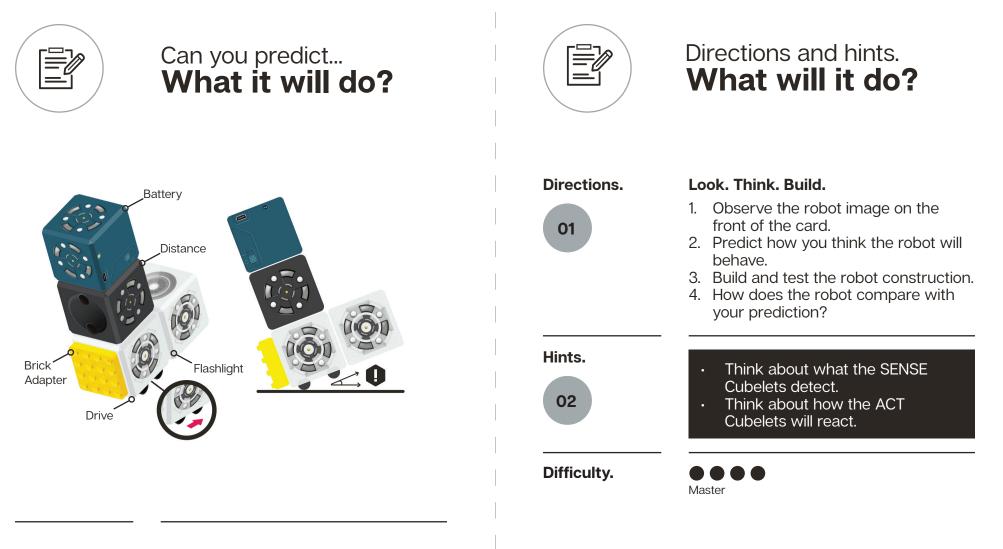




Turn this card over for more instructions.

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WAIT! DO NOT BUILD THIS ROBOT! Turn this card over for more instructions.

CUDOLOLS

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Invent it! **Dancing robots.**

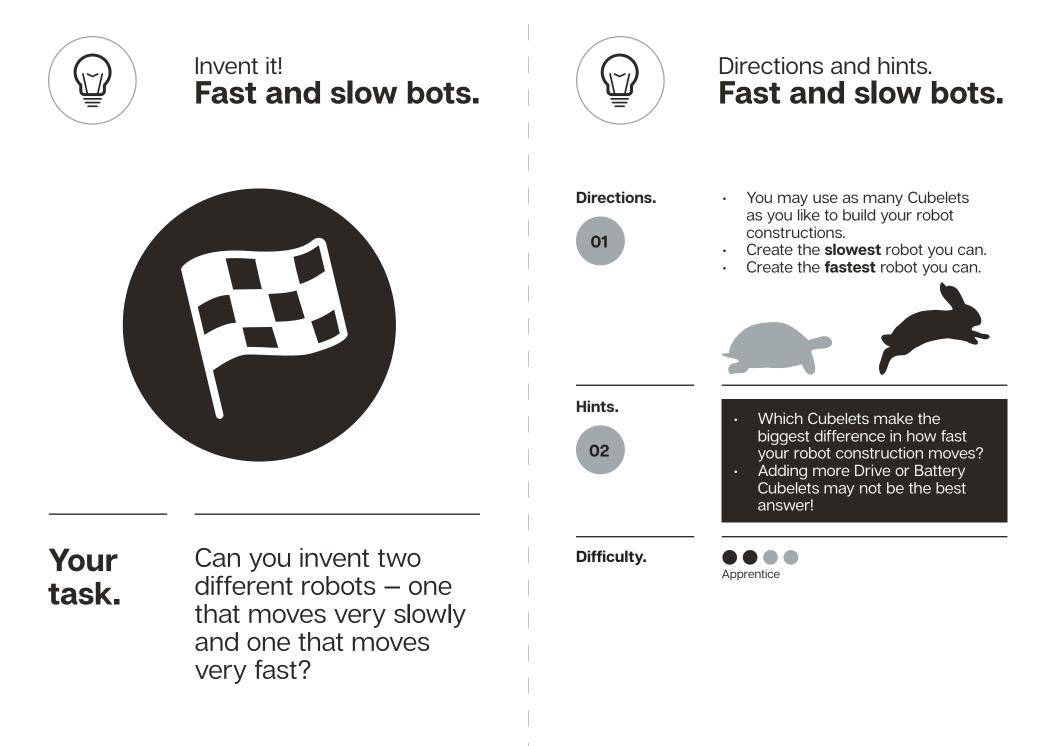


Directions and hints. Dancing robots.



Your task. Can you invent a few dancing robots?

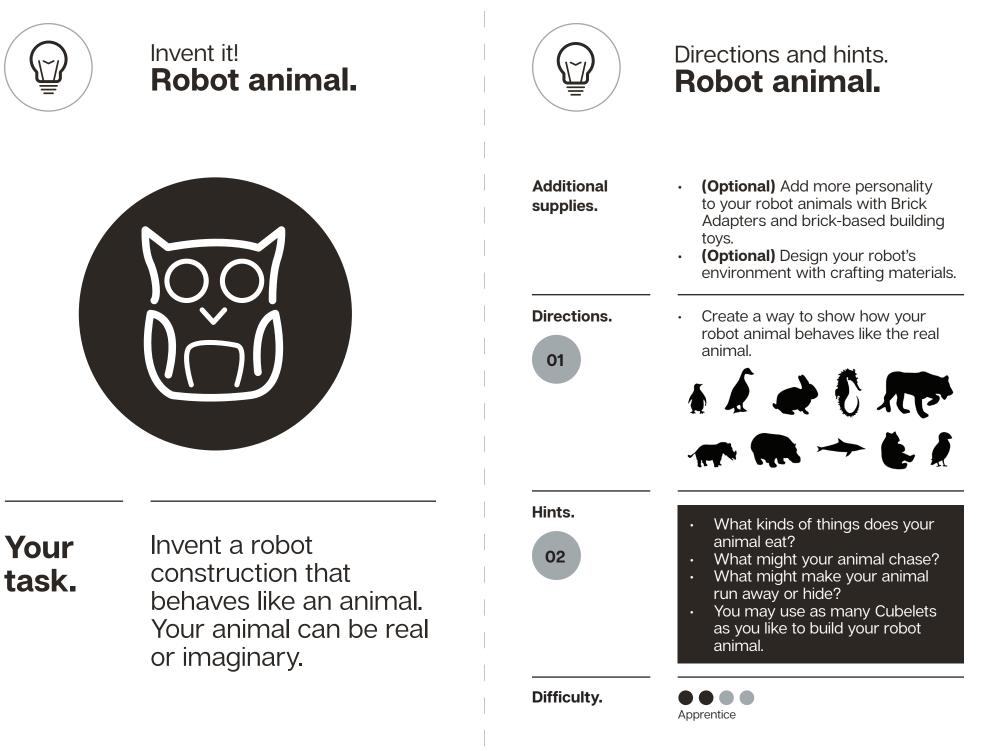
| Additional supplies. | (Optional) Add more personality to your robots with Brick Adapters and brick-based building toys. |
|----------------------|--|
| Directions. | Create as many dancing robots as you can. |
| Hints. | Not everyone dances the same way! Think of the different ways your robot could shake, twist, bounce, and roll. |
| Difficulty. | Novice |



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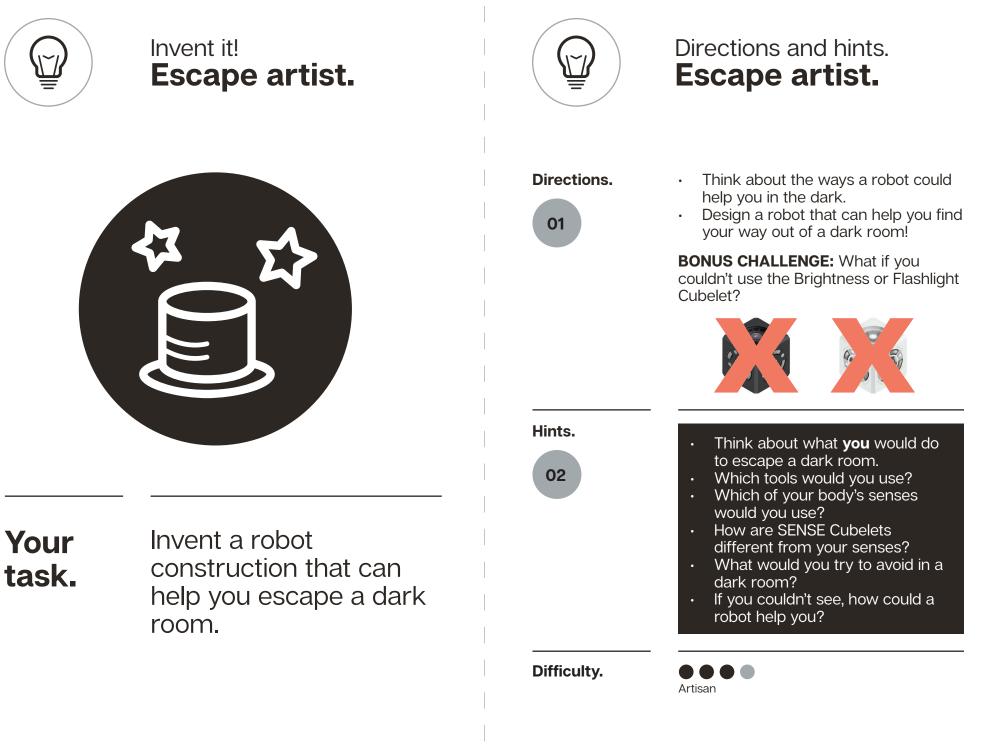


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Invent it! Cubelets kit.



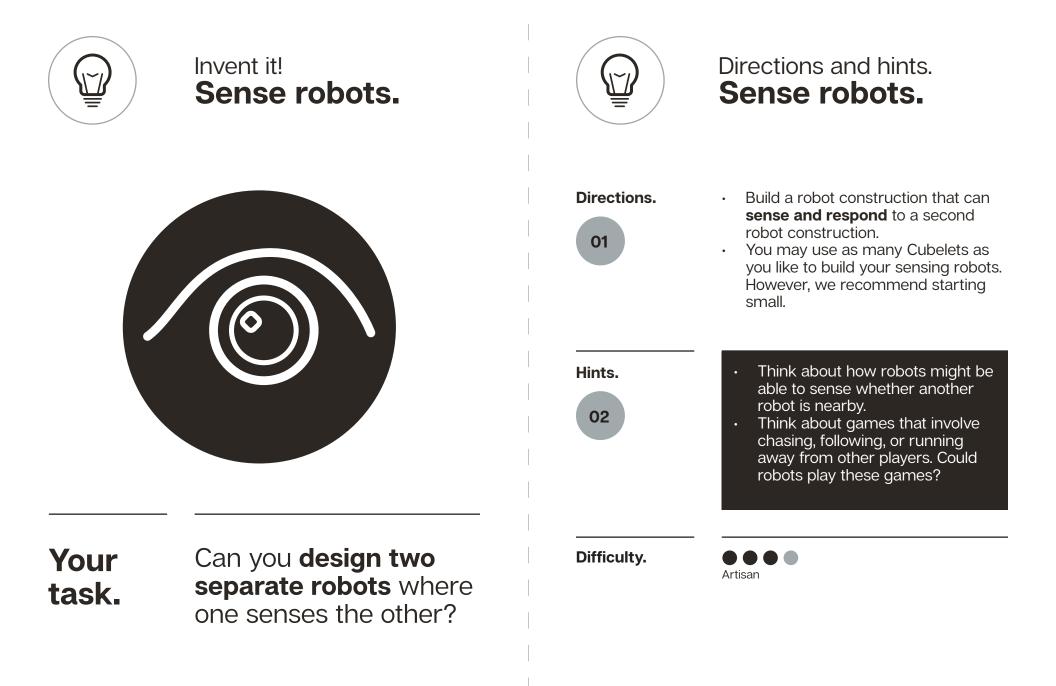
Directions and hints. **Cubelets kit.**



Your task. Can you invent the best set of Cubelets to sell in a store?

| Additional supplies. | Pen and paper. Markers or other creative supplies. |
|----------------------|---|
| Directions. | Choose your own combination of Cubelets to sell in one box as a new set. Design a box for your new set. How will the Cubelets fit inside the box? What are some of the robots you can build with the Cubelets in your set? |
| Hints. | Need ideas? See what we made at modrobotics.com/discovery or modrobotics.com/curiosity |
| Difficulty. | Artisan |







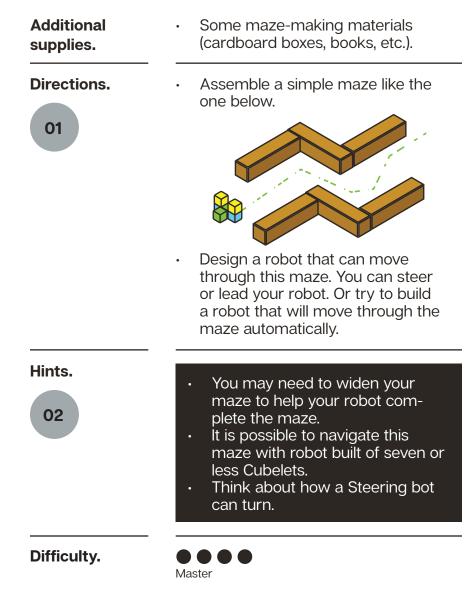
Invent it! Maze solver.



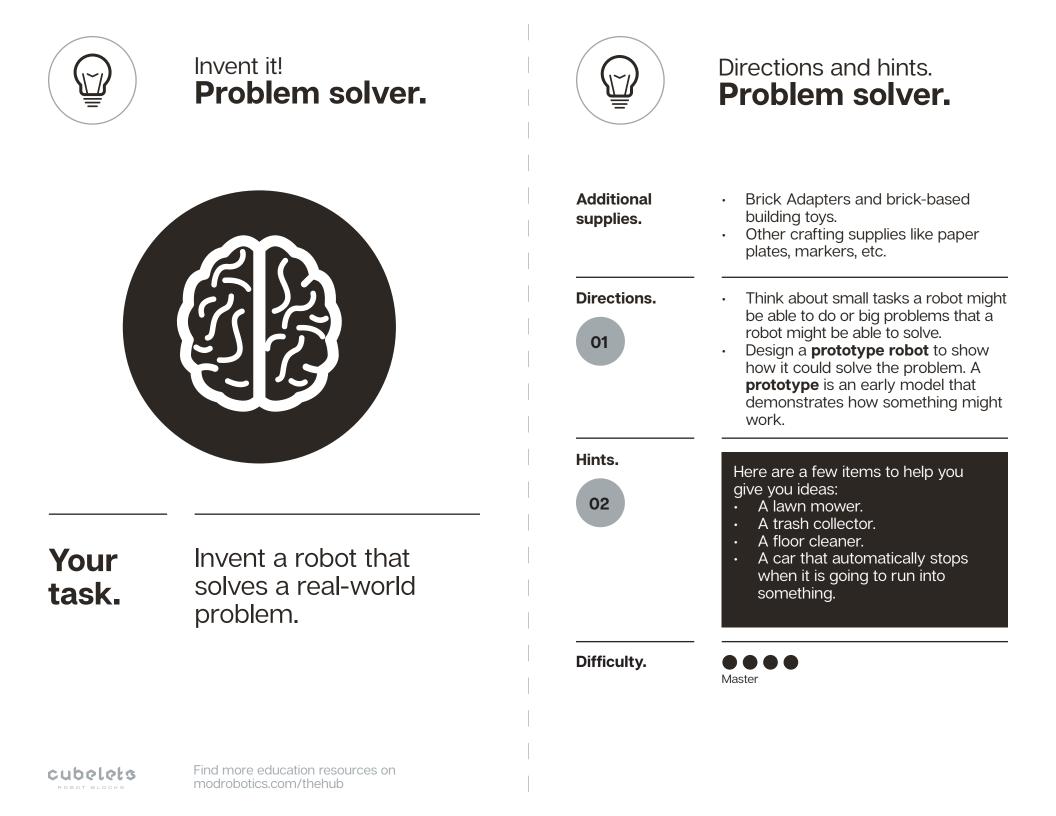
Directions and hints. Maze solver.

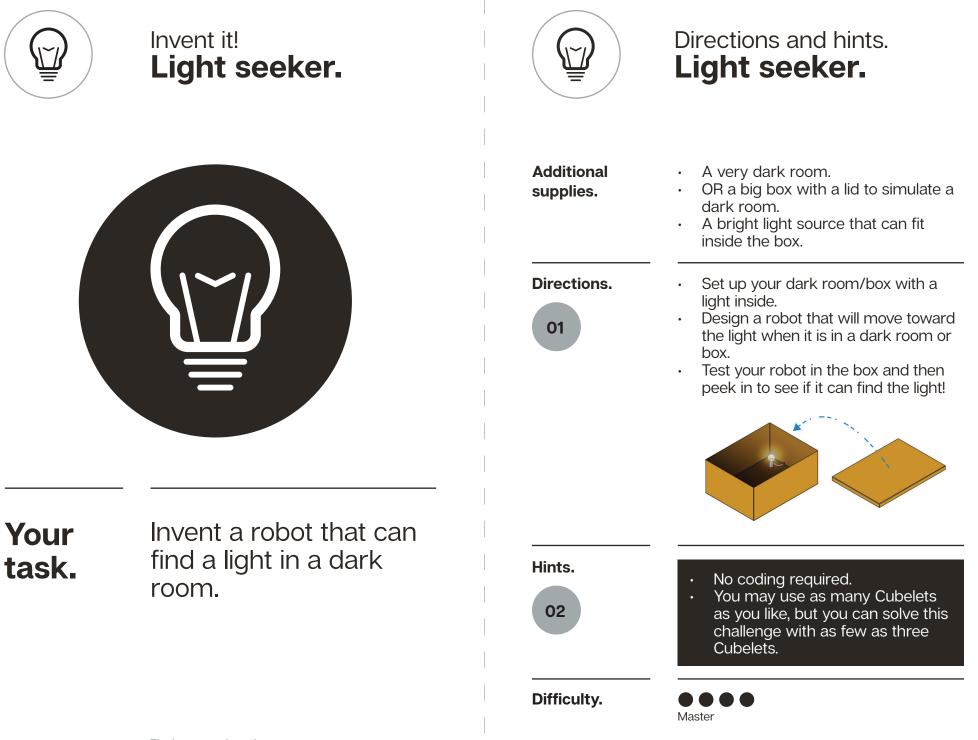


Your task. Invent a robot that can go through a simple maze.

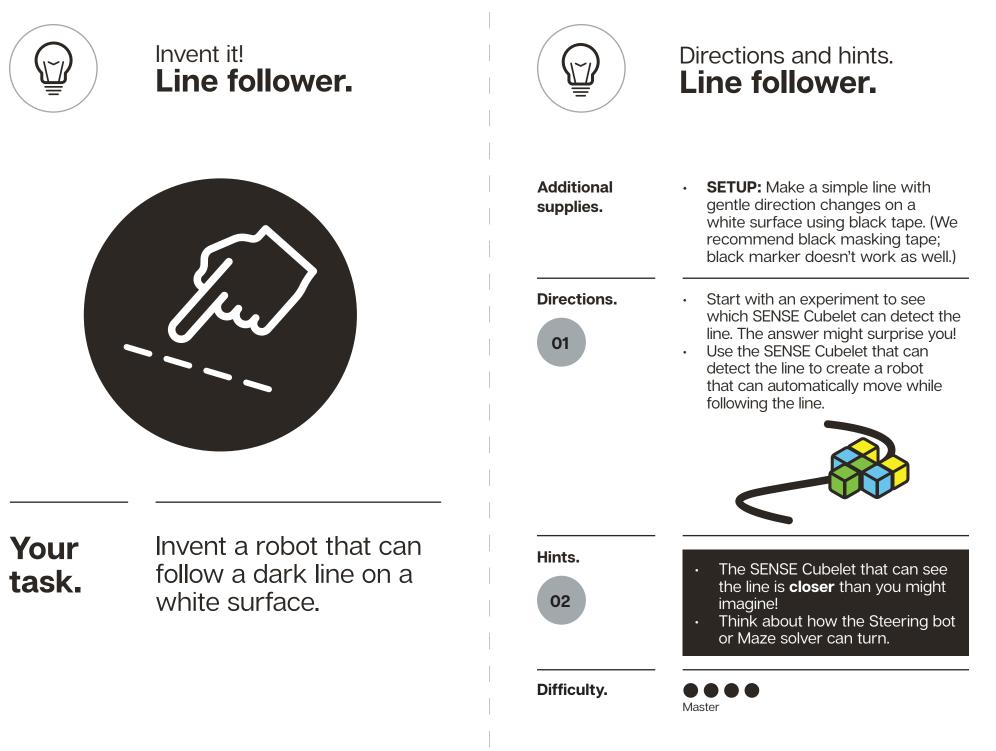








CUDELEES



cubelets



Blind directions. Draw-n-trade.



Additional supplies.

Directions.

01

Directions and hints. **Draw-n-trade.**

A partner.

Design a robot.

remember it.

•

Some paper and drawing supplies.

Draw a model of your robot so you

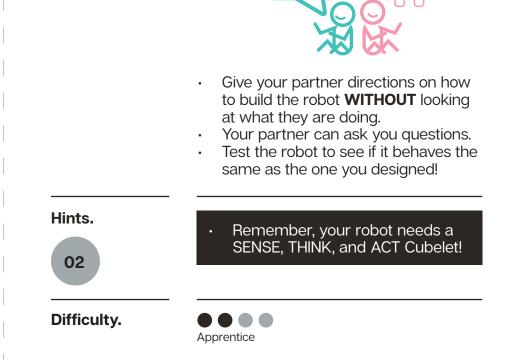
Sit back-to-back with your partner.



Your task.

cubelets

Find a partner and give them directions to build a robot. See the back for more instructions.





Draw it. **Robot model.**



Directions and hints. **Robot model.**



Additional supplies.

•

Directions.



Paper and drawing supplies.

- Build a Cubelets robot construction of your choice. Or use another card for inspiration.
- Set your robot on the table in front of you. Draw what your construction looks like from the **opposite** side (the side you can't see).



Your task.

Test your Cubelets knowledge with this drawing challenge!

