This booklet is packed with all kinds of cool robot games and puzzles:

- Go on a scavenger hunt to find robots around you
- Color and design a robot puzzle
- Play robot dominoes
- Try a crossword puzzle, word search or maze

Looking for more cool stuff about robots? Visit irobot.com/STEM
ROBOT PUZZLE
Color this robot and cut on the dotted lines to make a robot puzzle!
**ACROSS**

2. To create new technology, you must ________ it (turn it from a design into a real, physical machine).

4. When you come up with an idea and then build it, you ________ something new.

7. ________ is a school subject that includes biology, chemistry and physics.

10. Some robots, such as iRobot PackBot, use ________ to move over the ground instead of wheels.

11. A machine that can do things on its own is called a _____________.

12. It takes just a __________ of creativity to change the world.

**DOWN**

1. Some robots have __________ that you can push to turn them on, off or to make them do other things.

3. This toothed wheel engages another toothed wheel in order to transmit force or change speed.

5. You can __________ new things when you study science, technology, engineering and math!

6. ________ are one of the ways that robots, like cars, can move through the world.

8. The robot’s ________ moves the wheels, arms and grippers.

9. When you study ____, you will learn addition, subtraction, multiplication and division, the basis of engineering and most technology.
SCAVENGER HUNT!

There are a lot of parts used in robots that you can also find around your home or school. Ask an adult to help and see how many objects you can find that have buttons or switches, motors, LEDs, something you can program and something you think is robotic. For a challenge, see if you can complete the Scavenger Hunt without using "computer" in any category! Can you find objects that fit into more than one category?

<table>
<thead>
<tr>
<th>Something that has buttons or switches</th>
<th>Something that has a motor in it</th>
<th>Something robotic</th>
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<table>
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<th>Something that you can program</th>
<th>Something that has an LED or indicator light</th>
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Complete curriculum available at http://www.terk.ri.cmu.edu/curricula/robot-diaries/
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Help the robot get back to the lab so he can get a tune up!
Help the robot get back to the lab so he can get a tune up!
ROBOT DOMINOES

How to make the dominoes
With an adult’s help, cut along the dotted lines. You should have 56 dominoes all together.

How to play
Turn all of the dominoes face down on the table and mix them up.

Each player takes 6 dominoes. Don’t let anyone else see your dominoes. The rest of the dominoes are left on the table face down.

The youngest player goes first.

The first player places one of their dominoes right-side up in the middle of the table. The next player looks at his or her dominoes and tries to find one that matches one end of the domino in the middle of the table. If they find a match, they put down that domino so that the matching ends are touching (see diagram). If the player doesn’t have a matching domino, they draw one of the face-down dominoes and their turn ends.

Continue taking turns, with each player either playing a matching domino or drawing a domino, until one person runs out of dominoes. That person is the winner! If no one can get rid of all of their dominoes, the player with the fewest dominoes is the winner.
ROBOT CROSSWORD ANSWERS

BUILD

INVENTION

GARAGE

SCIENCE

WHEEL

DISCOVER

MOTOR

TRACKS

OVERRIDE

ROBOT

SPARK

E=MC²

$\frac{2+3}{5}$
ROBOTS A TO Z (ANSWERS)

BUILD
BUTTONS
DISCOVER
GEAR
INVENT
MATH
MOTOR
ROBOT
SCIENCE
SPARK
TRACKS
WHEELS
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