

ROBOT RETRIEVER

In the episode *Inside Hacker*, Inez and Jackie must program a robot to follow a list of simple commands to do a dangerous job for Matt. Now it's your turn! Make a robot remote, and then make a list of commands so your robot (a friend) can do a job for you. Here's how.

MATERIALS:

- Paper
- Pencil

1. Use the next page to make your robot remote.
2. Invite a friend to be your robot.
3. Put an object in a place where your robot can reach it, and pick a starting place for your robot.
4. Use the robot commands on the remote to figure out what steps your robot has to follow. What does it have to do to get from the starting place to the object and pick it up? What does it have to do to get it back to you?
5. Write the commands for your robot in order on a piece of paper. (You can write more robot commands in the blank spaces on the remote.)
6. Read the commands one at a time from your list for your robot to follow. Did your robot retrieve the object for you? If not, check your commands again to see what's wrong, and then try again!

Visit [PBSKIDS.org/cyberchase](https://www.pbskids.org/cyberchase) for activities and games!

MAKE A ROBOT REMOTE

Make this remote to command your robot to do a task.

MATERIALS:

- Scissors
- Piece of thin cardboard
- Glue

DIRECTIONS:

1. Cut out the "Robot Commands" chart along the dotted lines.
2. Glue to a piece of cardboard.
3. Cut out the "How to Obey Commands" chart along the dotted lines and glue it to the back of the remote.

ROBOT COMMANDS

WALK:
0 1 2 3 4 5 6 7 8 9

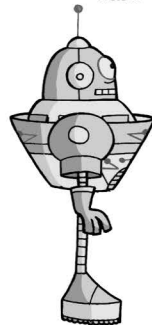
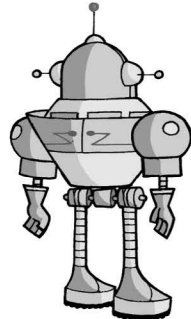
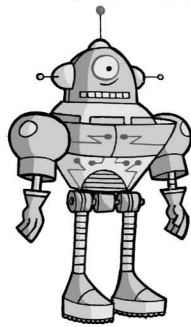
TURN RIGHT

TURN LEFT

EXTEND ARM

RETRACT ARM

PICK UP



HOW TO OBEY COMMANDS

COMMAND	HOW TO OBEY
WALK: 0 1 2 3 4 5 6 7 8 9	Walk "baby steps" in a straight line for the number of steps commanded before stopping.
TURN RIGHT	Turn to the right.
TURN LEFT	Turn to the left.
EXTEND ARM	Reach out toward front.
RETRACT ARM	Drop arm to side.
PICK UP	Grasp object with hand. (You may bend to reach object.)

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