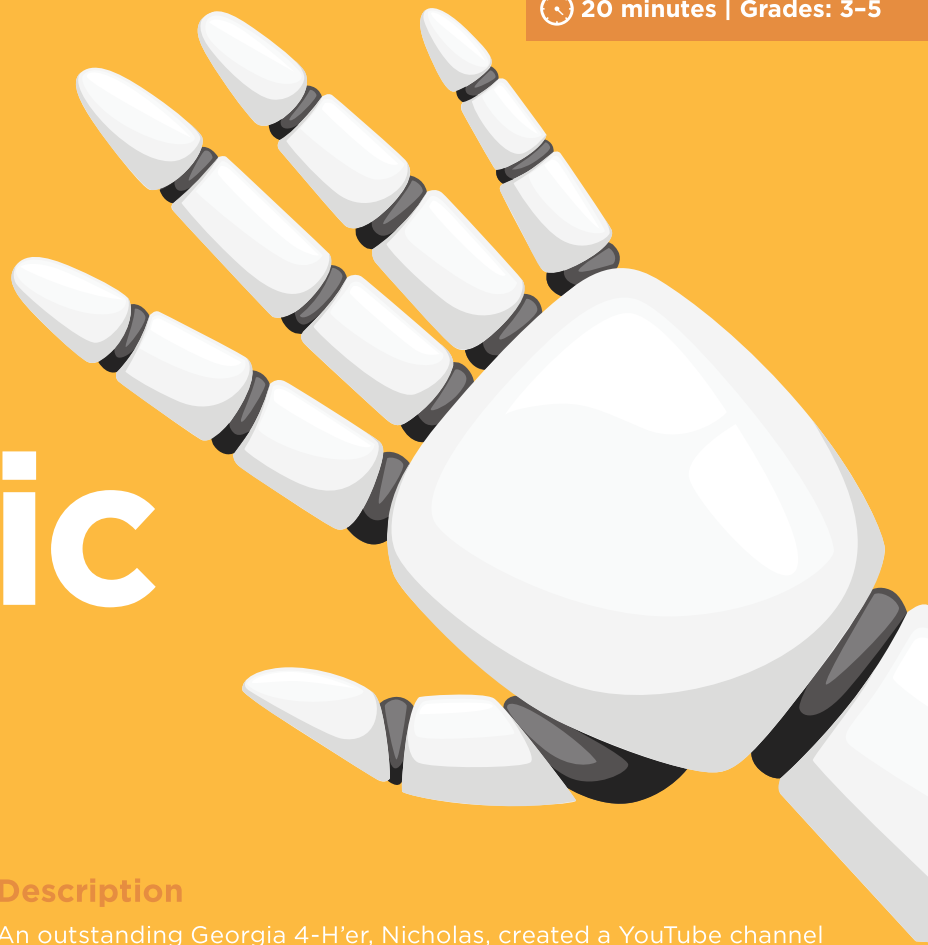


Low-Cost Robotic Hand



Supplies



Hand Template

+



5 Straws
with a bend

+



String
five 24-inch
pieces

+



Pair of
Scissors

+



Glue Gun

+



Glue Sticks

Description

An outstanding Georgia 4-H'er, Nicholas, created a YouTube channel full of low-cost projects to ensure that ALL children have opportunities to learn about STEM and get excited about science. [Check out his video](#) on how to build a robotic hand for less than \$0.50.



Activity Steps

1. Print out hand template from [4-H.org/HandTemplate](#)
2. Cut out hand template.
3. Fold each line on the template toward the palm of the hand.
4. Lay straws on each finger cutting them to match the template.
5. Cut each straw into 3 parts (1 cut on the second line down on the finger, 1 cut on the palm).
6. Glue straw pieces to the template.
7. Repeat steps 4-7 for each finger.
8. Put a string through the pinky finger and pull the string to the bottom of the other side of the hand.
9. Glue the string to the back side of the hand.
10. Repeat for each finger.

- ▶ For hand template, visit [4-H.org/HandTemplate](#)
- ▶ For video instruction, visit [4-H.org/RoboticHand](#)