Penguin Template - Rover Body

Turn the Bit Board Rover into a cute penguin with this printable template.

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INTRODUCTION

Turn the Bit Board Rover into a cute penguin with this printable template.

TOOLS:

- Printer (to print out the template) (1)
- Scissors (1)
- Hole Punch (1)
- Double-Sided Tape (1)
- Glue (1)

PARTS:

- Bit Board Rover Kit (1)
- micro:bit (1)
- LEGO Technic Pin with Friction Ridges and Slots (2780 / 61332) (4)

  Included with Rover Kit
- LEGO Beam 1 (18654) (4)

  Included with Rover Kit
- Cardstock (3)

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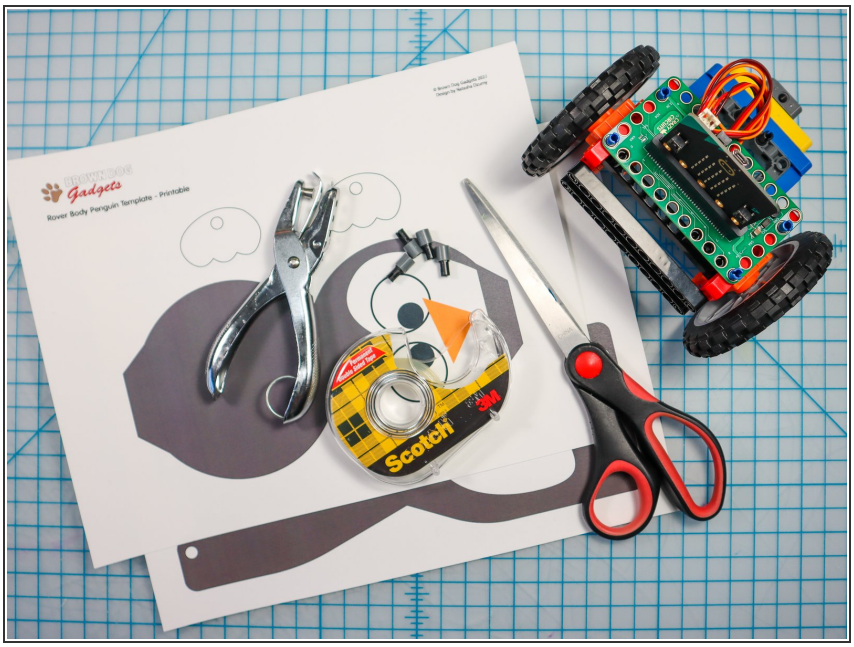
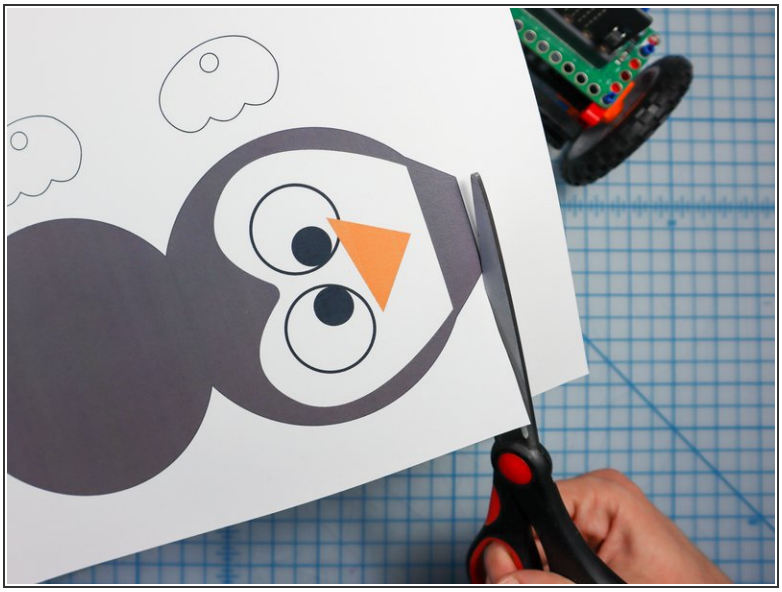
Step 1 — Print the Template & Gather Supplies



- If you haven't built the Rover's Main Body yet, see the [Rover Main Body]() guide first.
- Print the template of your choice.
  - We've included both templates in the single PDF file attached to this guide.
- You will also need scissors, a hole punch, 4x LEGO pins (black) and 4x LEGO round beams (grey), and double-sided tape or glue.

Step 2 — Color and/or Cut out The Template



- If you chose the "Print and Color" template, color it in first, then cut it out.
  - Or, If you chose to print the "Print and Color" template on colored paper, cut out the pieces and tape them in place. (Finished example in the second photo)
- If you chose the grey "printable" template, cut out the template as shown.

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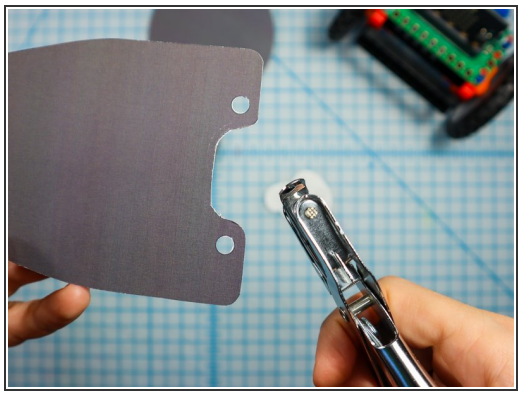
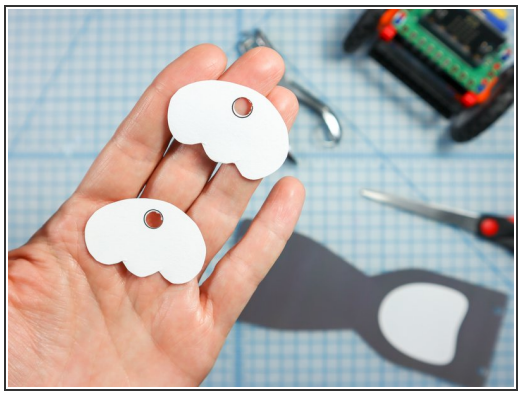
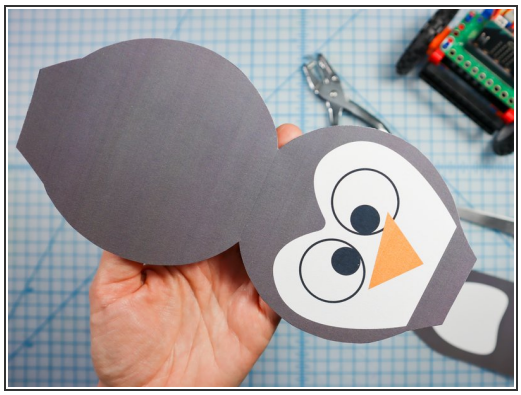
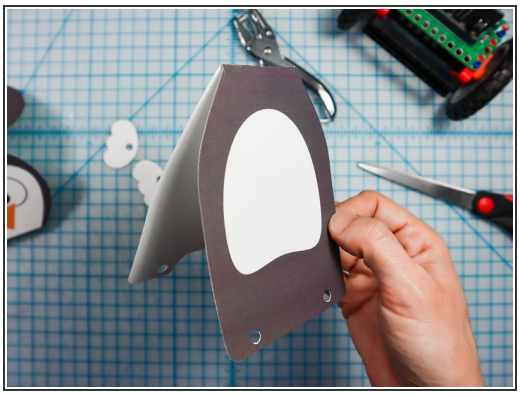
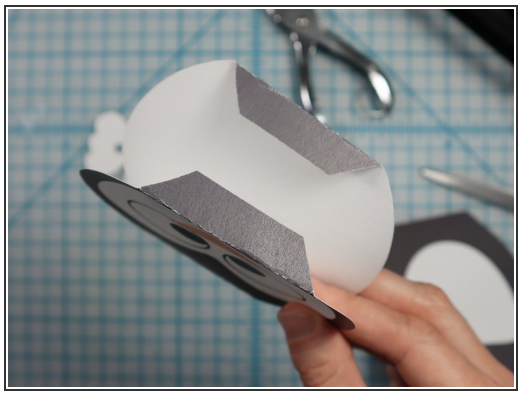
Step 3 — Punch Holes Where Shown





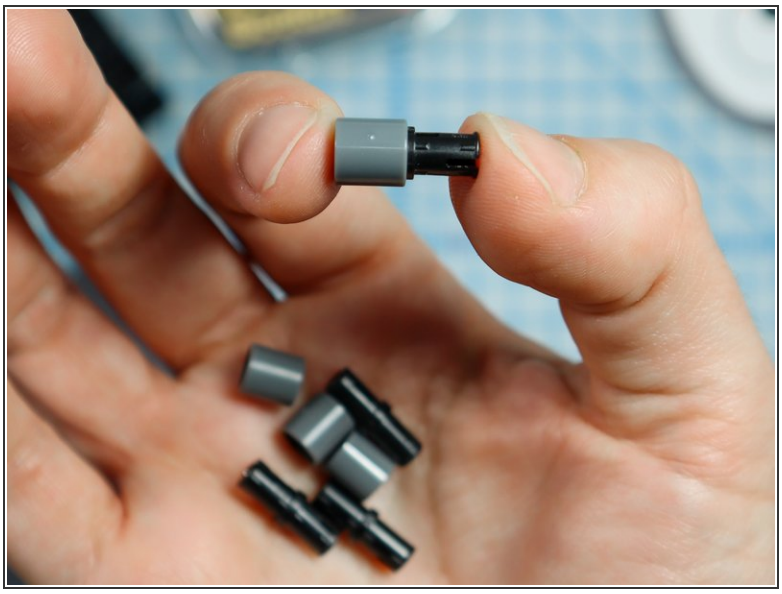
- Use a standard hole punch to punch out the circled where shown.

Step 4 — Fold the Paper Cutouts

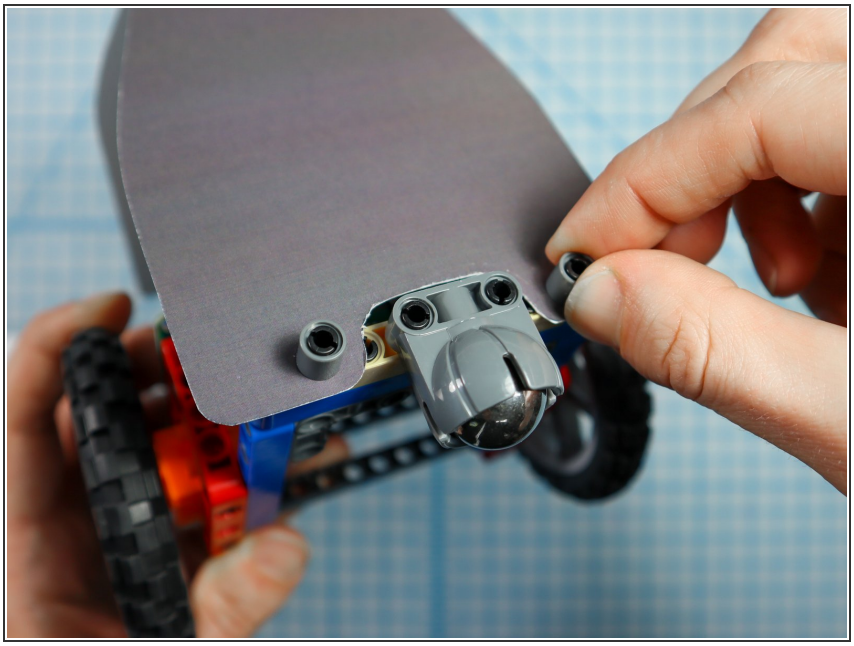
- Fold along the dotted lines as shown.

Step 5 — Prepare the LEGO Pins



- Connect each LEGO pin to a LEGO round beam as shown.

Step 6 — Use LEGO To Secure the Penguin Back



- Use two pin/beam sets to connect the back of the penguin body to the Rover.

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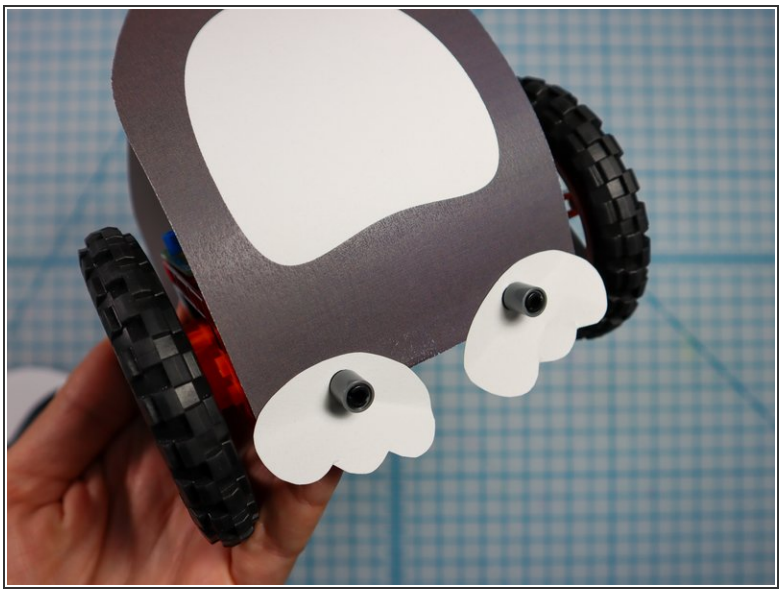
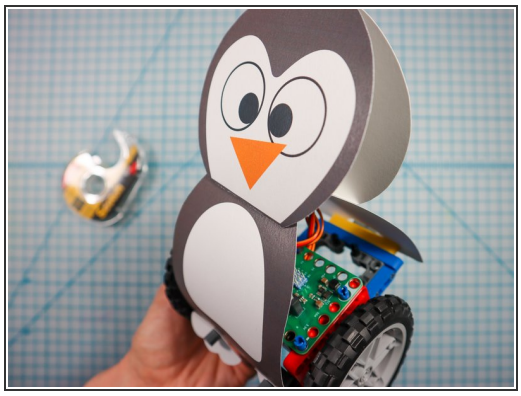
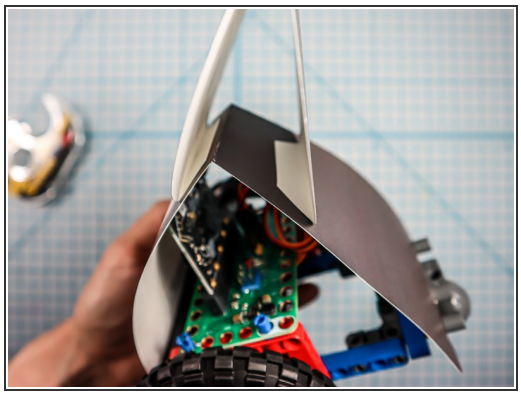
Step 7 — Add The Feet and Secure the Front



- Use two more pin/beam sets to attach the feet and front of the penguin body to the front of the Rover.
  - First, put the pin through the foot, then through the penguin body, then into the Rover body.

Step 8 — Add the Head

- Stick double-sided tape or glue to the bottom of the head flaps.
- Adhere the head to the body as shown.

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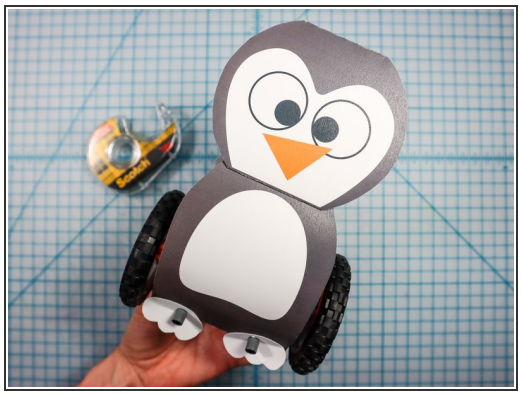
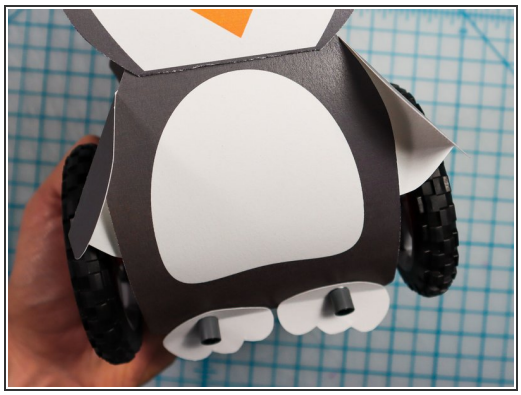
Step 9 — Attach the Wings





- Fold the wings along the dotted line.
- Add double-sided tape or a dot of glue to the center of the inside of the wings.
- Thread the wings behind the penguin's body and squeeze the spot with the tape/glue to keep them in place.

Step 10 — Optional: Add Googly Eyes!

- The penguin's eyes are 1.5-inch circles - perfect for a set of Googly Eyes! Add them if you wish.

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Step 11 — You now have a Penguin Rover!

- Let your penguin roam free!

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