



Fabrication Guide Activity Worksheet PNEUMATIC WRIST BRACE

Before you Build

1. Circle the category of robotics that pneumatics falls under.

Sensors

Actuators

Controls

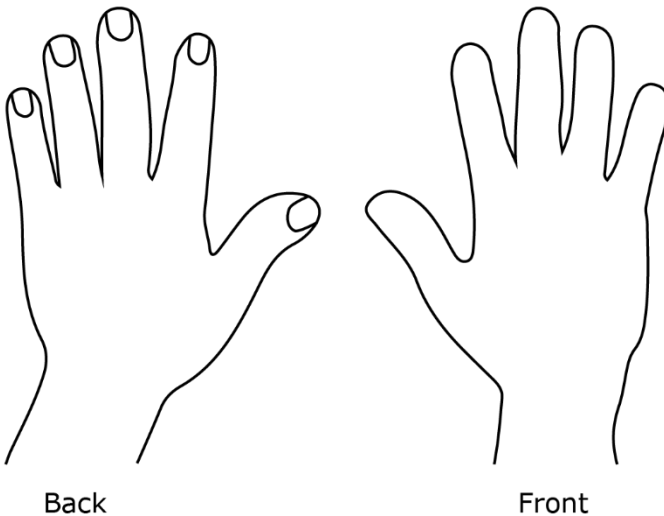
2. Why does pneumatics fall under this category?

3. Who would benefit most from this device? What about the device make you think this?

4. What are some other areas of the body where you could see a device similar to this one being used? Explain your answer.

Post-Activity Reflection

1. After testing the device on your wrist, were there any issues with your final result? What part of the fabrication process would you do differently next time to correct this?
2. When trying the brace on, did it fit properly? When you felt the pressure of the air supply, did any areas feel uncomfortably tight or too loose? How would you fix them? If needed sketch out your improvements and use arrows and notes to describe the changes.



3. How could you incorporate this brace into a robotic system? What other features could you add to help make this device more useful or more effective?