Digi-Bridge sparks interest and passion in science, technology, engineering, arts, and math (STEAM) learning, ensuring that students have the opportunities and skills to succeed in a rapidly-changing world by fostering curiosity, creativity, exploration, persistence, and resilience.

We are proud to partner with Lowe's and The Harvey B. Gantt Center for African American Arts + Culture to provide this STEAMKit for you to explore projects inspired by the profiles of revolutionary men whose journeys have altered the history and culture of our country.

Visit the Digi-Bridge YouTube Channel for video instructions!
Do you know how your muscles work? Let’s take a look at the muscles in our hands: movements of the hand are mostly started by muscles in the forearm. Athletes like Muhammed Ali, Jackie Robinson, and Michael Jordan used the muscles in their hands to change the world of sports. Artists like Romare Beardon and Louis Armstrong also used the same muscles to create powerful art.

Let's make a model hand to learn more!

YOU’LL NEED:
- Foam Sheet
- Glue Dots
- Scissors
- Popsicle Stick
- Straws
- Beads
- String

1. Use a pencil to trace your hand and wrist on the foam sheet and cut it out.

2. Cut small pieces of straws and place them on your hand to act as bones. **HINT:** Look at your hand and count the number of bones and joints in each finger! Use glue dots or tape to hold your straws in place.

3. Tie each piece of string to a bead. Then thread each string down through the straw pieces. These are your muscles and tendons! The bead should be at the top of the finger to hold the strings in place. Use a glue dot to attach your hand to a popsicle stick.

Can you make your hand move? What does it take to make your hand wave? What does this tell you about how your muscles work?
3. Play around with colors and space until you are happy with the design. Use glue dots to stick them onto the canvas and watercolors to create your art!

How could you design a structure using only tetrahedra? What other things could you build with this shape?
A tetrahedron is a three-dimensional shape with four corners and looks like a pyramid. It is the basis for a wide variety of geometry problems, and examples of tetrahedra can be seen in architecture, the arts, and even daily life.

**FUN FACT:** Tetrahedron is the plural of tetrahedron!

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**TETRAHEDRON TEMPLATE**

CUT ALONG SOLID LINES

FOLD ALONG DOTTED LINES