

Design for Good

A ScienceWorks after school engineering design program for middle school students

Be a part of designing, prototyping, and testing real solutions to real problems to help real people. In the Design for Good program, middle school students will design solutions to help peers with fine motor challenges to be more independent. Designers will work on solutions for real problems, like buckling a bike helmet when your fingers don't work together, putting a cap on a marker when you have only one arm, or opening a thermos when you have limited hand strength.

If you are a creative person and want to use your creativity to help kids in your community, Design for Good is for you!

The class meets at ScienceWorks on Thursdays from 3:30-5:00, April 6-May11. The cost for participation is \$70 for ScienceWorks members, \$75 for non-members. Scholarships are available.

Workshops

April 6 The Engineering Design Process (based on the principles of design thinking described by Stanford's d.School)

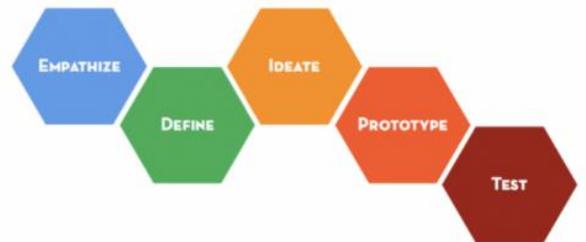
April 13 Empathize Work with a guest occupational therapist to understand what the challenges are for people who have different abilities and different limitations.

April 20 Empathize – Who are our design users? **Define** – What's the problem? Develop the criteria and constraints that will guide your design project.

April 27 Ideate – **Prototype** – **Test** Designers will go through a process of generating many possible solutions and examining the merits of each. Then they will settle on one or two possible design solutions and begin to prototype designs.

May 4 Ideate – **Prototype** – **Test** Continue the process and talk with materials experts about how to turn prototypes into useable designs.

May 11 Test designs with design users or talk with the occupational therapist who tested them with design users and **redesign/reimagine** the designs. Then we will **celebrate** lessons learned



Design for Good Application

The application can be completed online at the Education/After School Programs page of the ScienceWorks Website at: <https://www.scienceworksmuseum.org/Page.asp?NavID=12>

Complete the application by Friday 3/24.

Email questions to Liese@ScienceWorksMuseum.org.

Scholarships are available. Complete the scholarship application also found on the Education/After School Programs page of the ScienceWorks website.