

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 Wednesdays from 3:30-5:00, November 1-December 13. The cost for participation is \$70 for ScienceWorks members, \$75 for non-members.

Scholarships are available.

Workshops

Session 1 The Engineering Design Process (based on the principles of design thinking described by Stanford's school)

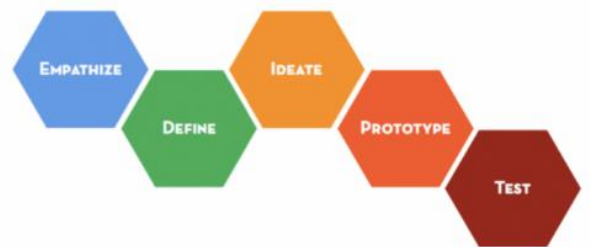
Session 2 Empathize Work with a guest occupational therapist to understand what the challenges are for people who have different abilities and different limitations.

Session 3 Empathize – Who are our design users? **Define** – What's the problem? Develop the criteria and constraints that will guide your design project.

Session 4 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.

Session 5 Ideate – Prototype – Test Continue the process and talk with materials experts about how to turn prototypes into useable designs.

Session 6 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/DesignForGood>

Complete the application by Friday 10/27.

Email questions to Zoey@ScienceWorksMuseum.org.

Scholarship applications are found on the Education/After School Programs page of the ScienceWorks website.

Design for Good Application

Please complete this application by Friday October 27, 2017. You can mail it or drop it off at ScienceWorks, 1500 East Main St. Ashland, OR 97520, or you can email it to education@ScienceWorksMuseum.org.

Please have a teacher write a brief note explaining what you would contribute to this class and how you would benefit from being a part of it.

Teacher: _____

If you would like to be considered for a scholarship, please write to education@scienceworksmuseum.org for an application. We have specific scholarship money designated for this program.

Name: _____ Email: _____

School: _____ Grade: _____ Phone: _____

Parent's Name: _____

Please describe a time in your life when someone did something to help you out. What did they do that made their actions helpful?

What do you do with your creativity? Everyone has a creative bug in them. How do you use yours?

What things do you do that you would call creative?