



## Multi-Use Homeless Cart

Inventor: Sebastien Montgrain

**Problems**  
Ever noticed a homeless person having to keep their things in a stolen shopping cart?

**Solutions**  
The multi use homeless cart enables people to keep your things safe and heat up your food.

**Simple machines**  
The wheel and the lid are a wheel and axle and a lever that rolls and moves up and down.

**How it works**  
First you can keep your things in is with the lid and lock. Then you can carry is and push it with the handles. And you can heat up your food in the solar oven.

## Ideas That Changed the World

Mari Jones and Cassidy Laikin, 4th Grade

High Tech Elementary Explorer

Inspired by the way that World's Fairs bring visitors into a vision for the future, Fourth Grade students recreated a World's Fair, complete with their own working inventions and a large-scale model of a city of the future. This exhibition at the San Diego History Center in Balboa Park also helped to celebrate the centennial of Balboa Park. For this project, students researched current problems of today and designed innovations to make our future better. Among the innovations was a city plan that included alternative energy, smart growth, and innovative infrastructure. As part of the project, students presented project proposals to experts such as city planners, transportation planners, and environmental advocates. In addition, students created working prototypes of inventions to help with mobility, environmental issues, hunger, poverty, and water issues, and informational posters and flyers for their inventions.

### Teacher Reflection

This ambitious project shows how we should never underestimate children's potential. The quality of student work, and their level of professionalism in presenting to experts, families, and the general public was amazing. The depth of learning was evident in the way students transformed knowledge about our world today to create something new.

### Student Reflections

It felt good to present my work to family and strangers to get feedback and to put it out there.  
—Asher

The most challenging thing was making everything work as expected. I can do that by taking more time and testing more often.  
—Ally

About the Invention Cycle: I learned that it is very challenging, and you fail a lot. The most exciting part for me was seeing it finally work.  
—Heather

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