Pre-Engineering and Construction 2
Toy Train Project for Kids In Hospital

The Problems
How to Create Design Build In the Classrooms

NATIONAL CENTER FOR CRAFTSMANSHIP DECONSTRUCT PROGRAM

http://www.nccraftsmanship.org/deconstruction/
Wood Toy Train Design Process

Step 1- Concept

Step 2- Design
Working Drawing
Exploded View

Step 3-Working Drawings
Step 4-Construction
Mass Production
Goal: 50 trains completed and delivered before Christmas 2013
83 trains delivered on time to Medical Center Of The Rockies!

IN THE NEWS

BERTHOUD HIGH SCHOOL STUDENTS BUILD TOY TRAIN ENGINES TO DONATE TO HOSPITALIZED CHILDREN

BY SHELLY WIDHAML REPORTER-Herald STAFF WRITER

POSTED: 12/14/2013 01:55:39 PM MST

The students in two of Robb Sommerfeld’s classes are elves of sorts, cutting, sanding and building toy trains to give to children in area hospitals.

"At first, it was hard to get them to do it, because they wanted to work on their own projects," said Sommerfeld, chairman of the industrial technology and pre-engineering department at Berthoud High School."
Hi Robb:

Just an enormous and heartfelt thank you for the donation of the trains! They are amazing and the children patients are so appreciative of the gift. Thank you to you and your students for thinking of us and most importantly bringing a patient's day.

Sincerely,

Director, Vocational Services

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Dear Bethesda High woodworkers,

My son was hospitalized at MCIR last weekend. He started to feel better and realized that there were trains at the nurse's station. Trains happen to be his most favorite thing! The nurses gave him one to take home with him. Thank you for donating your time and the trains. They made our sick little boy very happy!

Thank you! Kelly Cline
RESULTS FOR ENROLLMENT FOR GIRLS 2014–15

Introduction to Engineering Design- 50% increase 2 to 7 girls.

Principles of Engineering- 100% increase-0 to 3 girls

Construction 1- 50% increase- 8 to 16 girls

Construction 2- 90% increase- 1 to 10 girls

THANK YOU

Thompson Education Foundation
Michael Hausmann
Medical Center of The Rockies
Berthoud Surveyor
Loveland Herald
National Center For Craftsmanship
Berthoud High Pre-Engineering and Construction 2 students