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Design Camp for elementary school students: lemonade pavilion - 2008



## Design Camp for high school students: Cupcake Pavilion - 2007



## Design Camp for elementary school students: Playground Pavilions - 2010

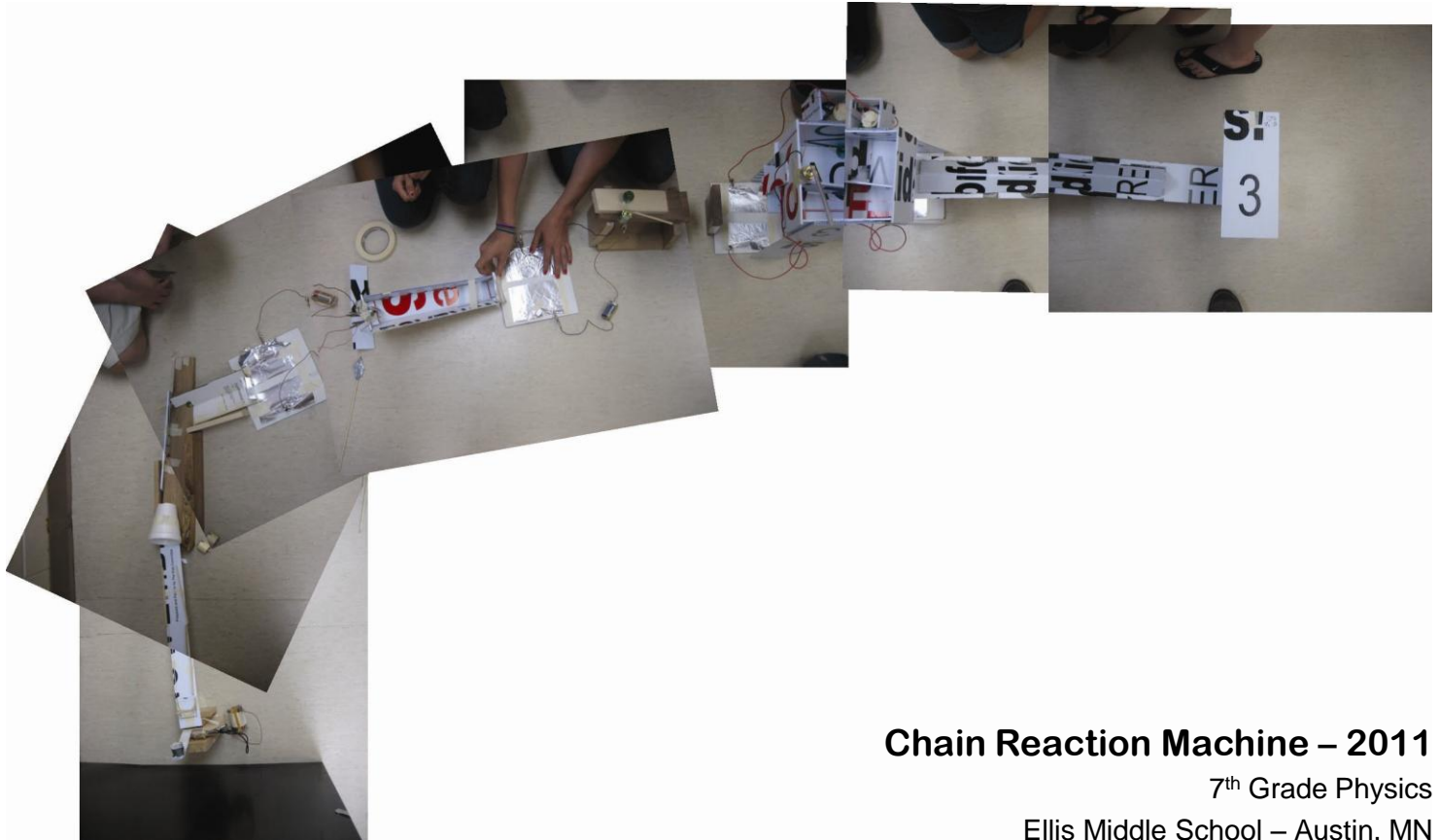
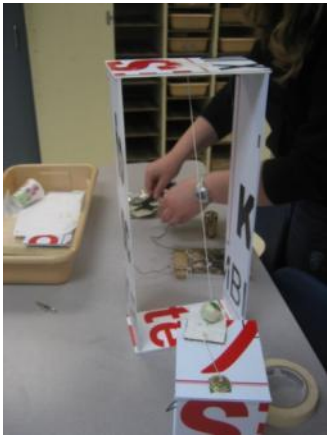


**Designing Play:** Walker Art Center - 2010



# Balloon Aerial Photography: Walker Art Center - 2010





## Chain Reaction Machine – 2011

7<sup>th</sup> Grade Physics

Ellis Middle School – Austin, MN

# EXCERPTS FROM PRELIMINARY EVALUATION REPORT

Prepared by *The Center For Applied Research and Educational Improvement*

**On Collaboration:** “I think it would be harder to work alone because you have no one to ask questions about if you don’t get something and with a partner you do have another set of hands.”

*-7th grade student*

**On Adaptation:** “When you write it down you think it’s going to work perfectly but then you have time to test it and it doesn’t work, then you have to change it.”

*-7th grade student*

**On Persistence:** “I think the more and more you changed it the better it was working because you were getting experience in what worked and what didn’t.”

*-7th grade student*

**On Representing Ideas:** “Sketching was hard because you have no idea what you’re doing yet you have so many different options, but once you have an idea down it’s more concrete.”

*-7th grade student*

**On Student self-motivation:** “We probably had the most students in before advisory to work on their devices. We had probably a full classroom, about 30 students in here. We haven’t had that many on previous challenges.”

*-7th grade teacher*

**On Collaboration:** “I thought that it was easier with a partner because it was easier to problem solve, it’s kind of like the saying, ‘two heads were better than one.’”

*-7th grade student*

**On Integrated Learning:** “Now [student’s understand] here’s how energy can be transformed from potential energy to mechanical energy to electrical energy. Building [the machines] sticks with them longer. And then you have the social piece, and it’s all intertwined.”

*-7th grade teacher*

**On College Readiness:** “When I think of college I kind of think of more freedom and with this class we got to have a lot more freedom and kind of do things more on our own... with this project we could make our own solutions.”

*-7th grade student*