

ELEMENTARY MAKING, A DESIGN THINKING EXPERIENCE...WITH PUPPETS

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Distinguished
School



Session Resources at echohorizon.org/puppetvideos

ABOUT ECHO HORIZON SCHOOL



- ▶ Independent School in Culver City, CA
- ▶ 180 students PK-6 (ages 4-12)
- ▶ 12% of students are Deaf and Hard of Hearing (in the mainstream classroom)
- ▶ emphasis on strong academics, character education, creativity, and critical thinking
- ▶ technology integrated throughout curriculum
- ▶ access to visual art, music, and dance theatre
- ▶ design thinking and making

WHY MAKERSPACE?

WHAT DO THEY MAKE?

THEY SEW

THEY PROGRAM

THEY CONSTRUCT

DECISIONS

WHY DO THEY MAKE?

EMPATHY

**WHAT IS DESIGN
THINKING?**

A DECISION MAKING PROCESS

- ▶ IDEO
- ▶ Stanford d. School
- ▶ Nueva School



**FOR WHOM DO THEY
MAKE?**

**DESIGN THINKING
NEEDS USERS**

A FRUITFUL PROBLEM

**WE WERE ABOUT TO
LEARN SOMETHING**

WHY PUPPETS?

PUPPETS ARE MAGIC

HOUSE DESIGN CHALLENGE

Research
&
Empathize



What goes better with making than Design Thinking? I don't know.

1. Pirate (lives in water needs to fish)

2. Dewey (lives over water doesn't want to float)

3 Brutus + Psy Duck

4 Ceasar (big ants)

5 L (big family dance party)

Pirate needs a house that moves around on water so as to allow him to find good fishing spots.

Dewey needs an above ground house that stays still so as to avoid flood damage and sea sickness.

Brutus need a house that keeps out the rain so as to stay dry and warm.

Cesar needs a house that is high off the ground so as to keep the ants out.

L needs a house with a large space for dancing so as to allow her family to have quality time together.

Sketch as many ideas as you can.

i2

First Grade Student Responses to House Design Challenge

echo
HORIZON
s c h o o l
Pre K-6

echo
HORIZON
s c h o o l
Pre K-6

i2

HOUSE DESIGN CHALLENGE REFLECTION

Snap a Photo of your creation and post to Twitter / Instagram.
Include how you met the user's needs

SHARE TO #SXSWEDU #ECHOPUPPET

PUPPET DESIGN CHALLENGE

Research
&
Empathize



Workshop Attendee Design Challenge

i2



i2

In this workshop, really the best workshop there is.



Needs Statement

The _____ needs _____
so as to _____

Identify
Needs

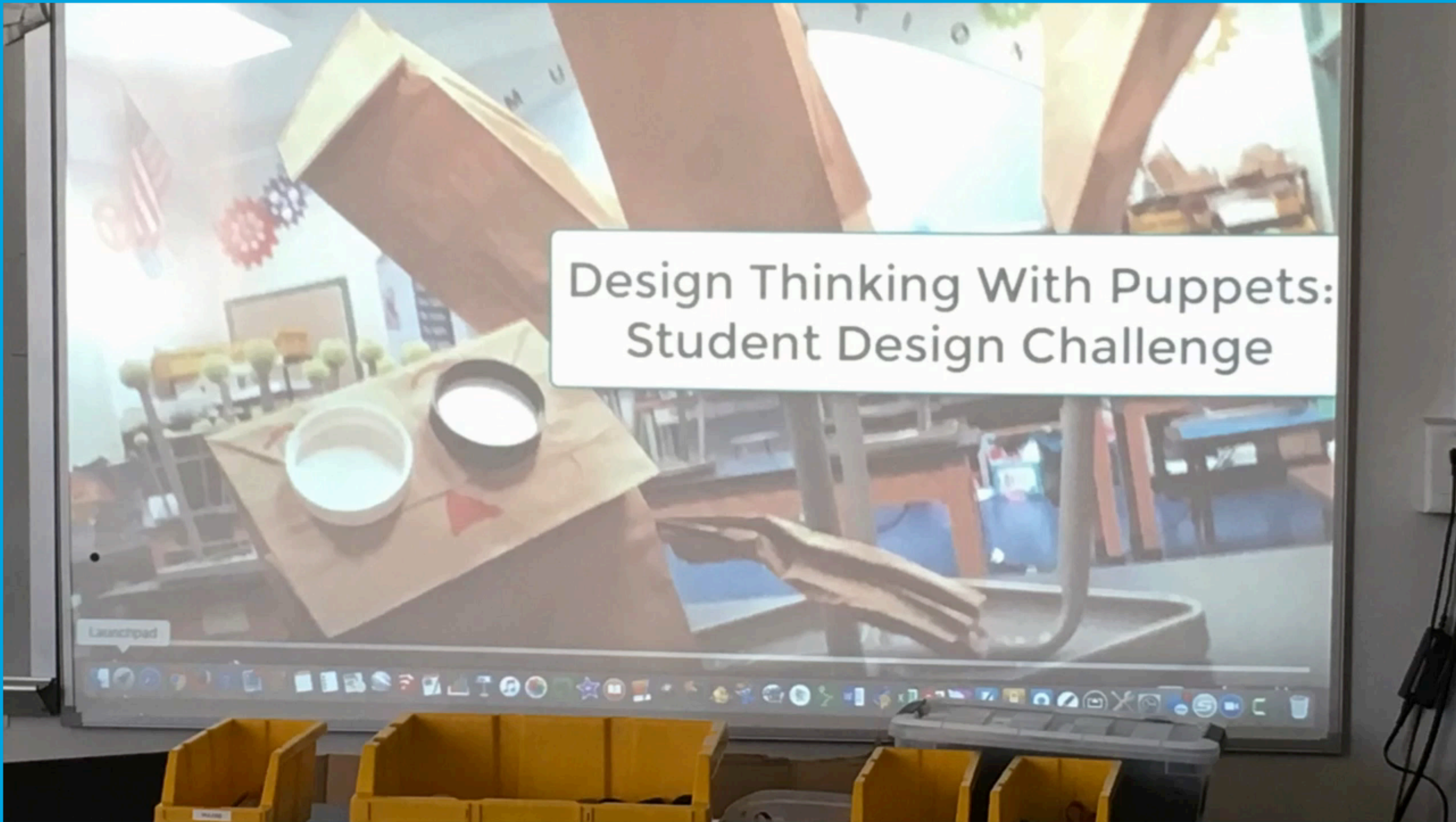
The Kindergarten teacher needs a way to help her students tie their own shoes
so as to focus on the learning.

The Tech Director needs a way to share technology tools with students and teachers
so as to empower them to learn and create awesome stuff.

Generate
Ideas

Sketch your ideas

Rapid Lo-Res Prototyping - Design a Paper Bag puppet that responds to your user's needs!





I made a puppet today and I made her to

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UNPACKING YOUR BAG

Design Thinking

Car Design

Design and Build Challenge



Identify
Needs

Generate
Ideas

Prototype
&
Test



Cars we made

Grade PreK-Adult

DTWP Car Design Challenge

i2

CAR DESIGN CHALLENGE REFLECTION

Snap a Photo of your creation and post to Twitter / Instagram.
Include how you met the user's needs

SHARE TO #SXSWEDU #ECHOPUPPET

Q&A

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Join us in our Maker Space this summer: echohorizon.org/PD

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