Laurie E. Herrman Myers
Mother, Wife, Daughter, Sister, Friend, Educator

Design Thinking As Collaborative Learning In Education

Observing Student Behavior Through The Design Thinking Process

Laurie E. Herrman Myers
Capstone Project

Rationale and Connections

- Lack of unique learning opportunities
- Less time to exercise creative imagination
- Importance of collaboration
- Pressures of standardized testing
- Teaching students how to think instead of what to think

Photo by Holly Tharp, Summer Studio Intensives, Design thinking, UF 2012
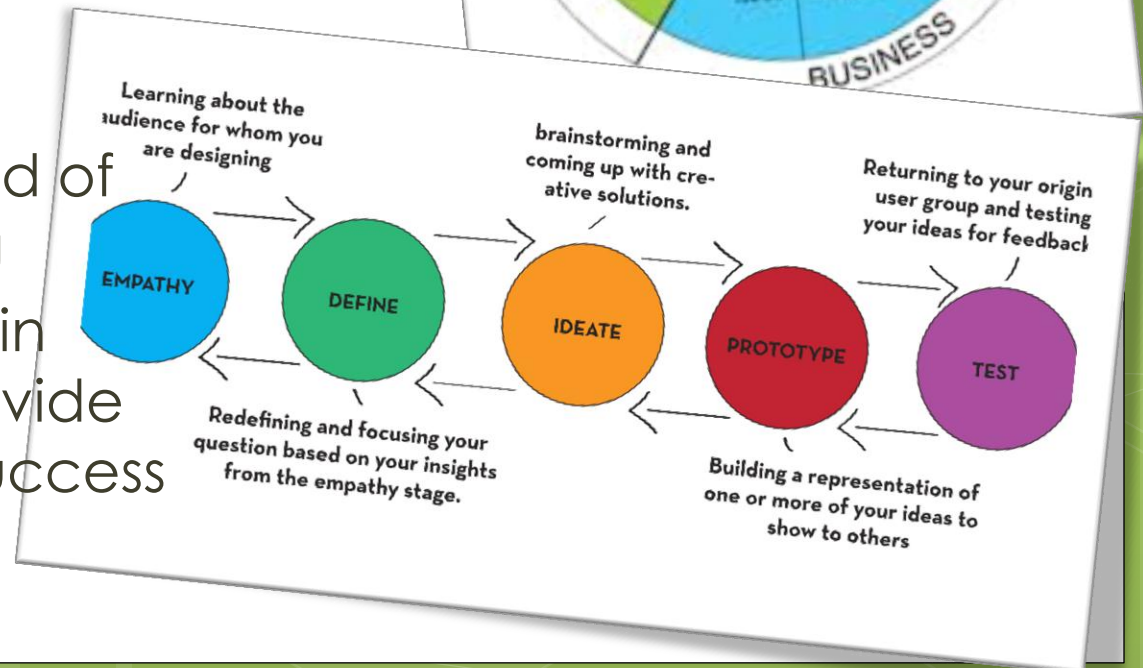
Research Questions

- What happens when I introduce Design Thinking into my classroom?

- How can Design Thinking facilitate creative problem-solving behaviors in 7th graders?

Literature Review Insights

- What exactly is Design Thinking?
- How does it work?
- Why is it important to education?

- Design History
- Effective method of problem-solving
- Design Thinking in schools can provide assurance for success

PERSONAL | UNIVERSAL
Begin Anywhere | Ask Stupid Questions | Jump Fences
Design For Emergence | | Make Hope Visible
Embrace Constraints | | Go Deep
SOCIAL | Face Consequences | Design What You Do | Work The Metaphor | BUSINESS

Learning about the audience for whom you are designing

brainstorming and coming up with creative solutions.

Returning to your origin user group and testing your ideas for feedback

EMPATHY → DEFINE → IDEATE → PROTOTYPE → TEST

Redefining and focusing your question based on your insights from the empathy stage.

Building a representation of one or more of your ideas to show to others

Research Methods Summary

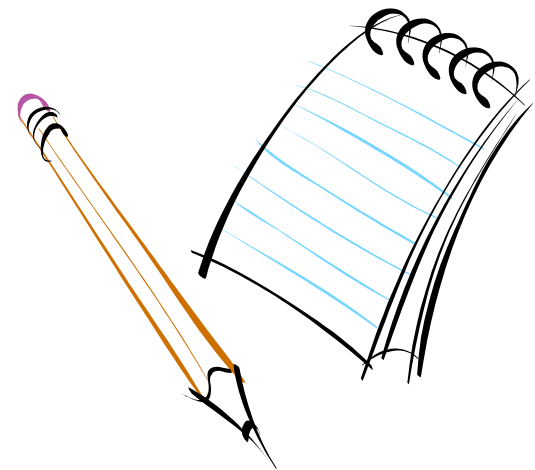- Action Research (Department of Library Science & Instructional Technology, 1999).

Data Collection

- Still and video images
- Informal interviews
- Journal reflections
- Tally sheet of behaviors and outcomes
- Student survey

Data Analysis

- Observation, reflection, revision
- Record, analyze
- Trends, themes, similarities, and commonalities

Findings

First and second observation:

- Design Thinking encourages positive behavior

- The environment plays an important factor in success

Findings

Third and fourth observation:

- Shorter projects create more enthusiasm
- Boys and girls solve problems differently
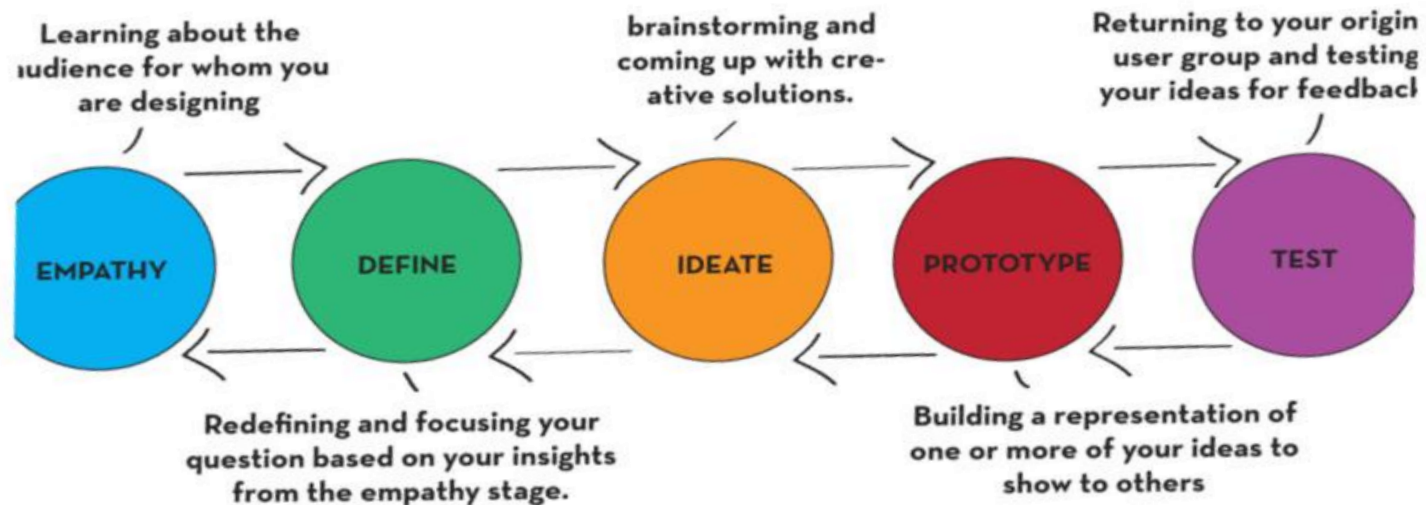
Findings

Fifth observation:

- Groupings chosen by the teacher are more successful

Discussion and Significance

How can teaching the Design Thinking process…

- … help educators?
- … benefit society and support my community?
- … assist me personally and professionally?

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EMPATHY DEFINE IDEATE PROTOTYPE TEST

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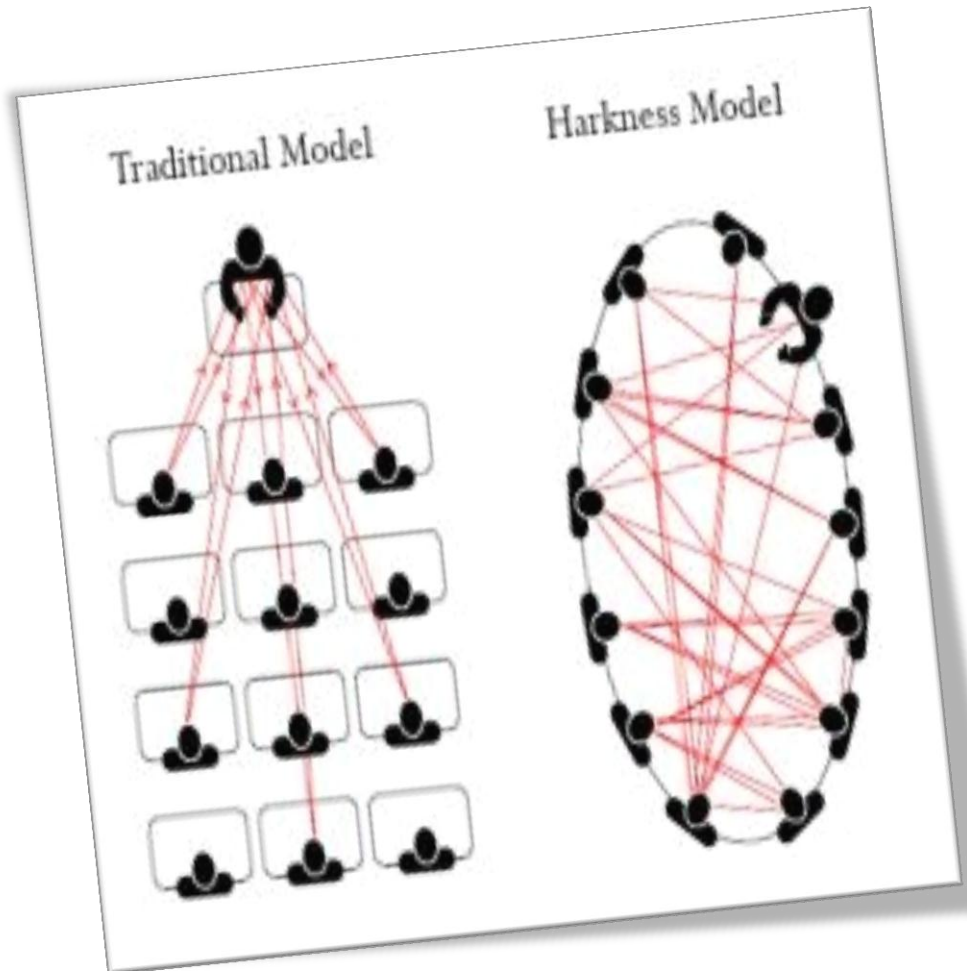Building a representation of one or more of your ideas to show to others

Design Thinking in Education according to Warren Berger

What's next for Art Ed?

- Further research
- Encouragement of implementation of Design Thinking in education

What's next for me?

- Present Research
- Further Research
- Fully implement