

6th Grade Intro to Gateway
Lesson: April 10- Part 2 of 2

Learning Target:

Modeling, testing, evaluating, and modifying are used to transform ideas into practical solutions.

Warm-Ups:

View link: [Review Part 1](#)

View Link: [Review of the Design Process](#)

Lesson Introduction/Background Information:

We learned that design is a process, that involves lots of trying and re-trying different steps as a part of that process. This week, you are going to be designing some solutions to problems using materials you find around your house.

Materials for today:

Two items with a gap of approximately 12 inches (chairs, couches, counters, etc.)

Bridge construction materials you can find around your home

Practice:

You are going to use simple materials you can find around your home to build a bridge across your gap.

Once you've gotten a bridge to stand using materials, test out how much weight it can handle with other items you can find.

Take notes as you go about which materials you are using and how much each bridge can hold

Self-Assessment:

Review your notes and ask yourself the following questions.

What materials made for the sturdiest, best bridges?

Do you think the design or the materials mattered more?

Could you apply the same basic design with different materials?

Extend Your Learning/Continued Practice:

Challenge someone in your house to a bridge building contest. Who can build the sturdiest bridge?