

# TECH:Bridge Construction - Span It (Const)

## Summary

Students will utilize problem-solving and brain storming techniques. They will apply the principle of triangles in bridge construction while staying within a budget.

## Time Frame

1 class periods of 45 minutes each

## Group Size

Large Groups

## Life Skills

Thinking & Reasoning, Employability

## Materials

Span-it Bridge Building program (Free download software program from Bechtel.com)

## Intended Learning Outcomes

- 1- The Student will learn to design and build a bridge on a computer.
- 2- The Student will efficiently use materials within a specific budget.

## Instructional Procedures

- 1- Introduce students to the program.
- 2- Show how to choose and move items.
- 3- Show how to start over if needed.
- 4- Identify budget constraints.
- 5- Show the three different levels of bridge building challenges.
- 6- Complete the bridge within the assigned money budget.
- 7- Test the Bridge.

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