Bridge Builder
Build the strongest bridge with a unique design to support the most amount of weight in pennies. Bridge must span a distance of 10 inches (25 cm), and it cannot be taped to the support structure.

What You’ll Need
• 20 plastic straws
• 1 small sheet of paper/foil
• Tape
• Scissors
• Ruler
• Pennies

Reflection Questions:
What did you learn in this challenge?
How would you teach what you learned to someone else?

Redesign Challenge:
Redesign your bridge to use the least amount of straws and still support the same amount of weight.

Overall Design Reflection Questions:
• What were some interesting discoveries you made while working on the Design Challenges?
  • About the problems? About yourself?
• What were some of the difficulties of the Design Challenges?
  • What made them difficult?
• What were some learning moments?
  • What made them so?
• How can you use what you have learned in the future?

Quote
“Design is not how it looks like and feels like. Design is how it works.”
— Steve Jobs

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