# Building the Brooklyn Bridge
## Lesson Summary

## Learning Outcomes

- The Brooklyn Bridge is a suspension bridge.
- The critical engineering components of a suspension bridge are: towers; foundation for the towers (caissons); main cables; suspension cables (stay and suspender); deck; anchors.
- The Roebling family built the Brooklyn Bridge.

## Vocabulary

**Suspend** - to hang / hold up
**Caisson** - watertight chamber used for construction work under water
**Tower** - the tallest structures of the bridge on which the main cables are resting
**Cable** - a wire rope
**Deck** - the roadway and pedestrian walkway of a bridge that is suspended
**Engineer** - a person who designs and builds things
**Bedrock** - the solid rock underlying soil or other sediments
**Anchor** - a large metal plate attached to the main cables which holds them in place
**Anchorage** - the part of the bridge that covers the anchor

## Summary of Trip Activities

*Trip activities may occur in a different order and/or the class may be shortened if your group is late. The educators may also change elements based on their assessment of students' needs.*

**History and Construction of the Brooklyn Bridge**
Seated on the carpet in the Education Center, we will learn about the history and construction of the Brooklyn Bridge.

**Bridge Model Building**
Working as a group, we will build a model of the Brooklyn Bridge.

**Brooklyn Bridge Walk**
As a group, we will walk from the Education Center to the Brooklyn tower of the Brooklyn Bridge.