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Special thanks to all Engineers/builders and The Work Office (TWO) for making these bridges happen.

Credits and Resources on Bridges:

Mediabridge_InfosystemsInc. aboutNY.com, "NYC Bridge and Tunnel Crossings", <http://www.ny.com/transportation/crossings/> (1994-2008)

PBS Online & WGBH Educational Foundation, "Bridge Basics", <http://www.ny.com/transportation/crossings2000-2001>

New York City Department of Parks & Recreation, "Brooklyn Bridge Park", <http://www.nycgovparks.org/parks/Brooklynbridgepark/> (2009)

Questions to think about when you are going over a bridge, looking up at a bridge or building your own bridge?

-Could I build this bridge, or would it give me a back-ache?
-Do I need to do jumping jacks and stretch before embarking on this bridge?
-If I were a type of bridge what type would I be?

All bridges in this pamphlet are built in and around the Brooklyn Bridge Park.

More information on construction can be found in the TO BUILD A BRIDGE PORTFOLIO.

TO BUILD A BRIDGE:

An educational pamphlet about different types of bridges that can be made over puddles.

1.
One of the oldest types of bridges is the **Truss Bridge**. It consists of connected elements (usually straight beams that make many triangles). Tension and compression are at play with this bridge.



Puddle Location: The Brooklyn Bridge park pathway

Engineers/builders:
Lindsay A. Carey, Cate Geiger,
Adam Harris Levine, Maya Taylor
and Katherine Fox.

Notes on execution:
Avoid building in the rain.

2.

The **Beam Bridge** consists of a horizontal beam supported at each end by vertical supporting structures (piers).



Puddle Location: Washington Street, across from the Brooklyn Bridge Park

Engineers/builders: Sarah Minsky and Jenny Acosta

3.

Developed in Rome thousands of years ago the **Arch Bridge** has great natural strength. It is made up of curved shapes and is often cement.



Puddle Location: Washington Street, across from the Brooklyn Bridge Park

Engineer/builder: Victoria Calabro

4.

The **Suspension Bridge** is a structure where the load bearing horizontal core is strung up by cables hung from towers. The simple rope bridge is its ancestor.

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Puddle Location: Washington Street, across from the Brooklyn Bridge Park

Engineers/builders: Shannon Legg and Alexandra Halky