



Key Questions

- What is a bridge?
- What type of bridges are there?
- How can you strengthen a bridge?

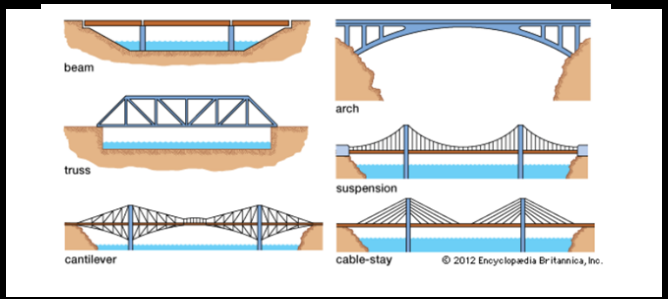
• What is a bridge?

A bridge is a structure that allows people and vehicles to cross over an open space. Bridges span, or stretch across, deep pits in the earth, bodies of water, and [roads](#).



• What type of bridges are there?

There are six basic bridge forms. They are the beam, truss, the cantilever, the arch, the suspension and the cable-stayed



• How can you strengthen a bridge?

By using triangulation and arches



Vocabulary

Bridge	A bridge is a structure that allows people and vehicles to cross over an open space. Bridges span, or stretch across, deep pits in the earth, bodies of water, and <a href="#">roads</a> .
Structure	a building or other object constructed from several parts.
Span	<i>Span</i> is the distance between two supports for a structure like a bridge
Beam bridge	In its most basic form, a <i>beam bridge</i> consists of a horizontal beam that is supported at each end by piers.
Pier	A <i>pier</i> is an upright support for a structure
Deck	A <i>deck</i> is the surface of a <i>bridge</i>
Reinforce	strengthen or support (an object or substance), especially with additional material.
Triangulation	<b>Triangulation</b> involves the use of triangular shapes to give stability to structures

DT skills

apply understanding of how to strengthen structures  
use research and develop design criteria to inform building a structure

What will I know at the end of the unit?

What a bridge is  
What types of bridges there are  
How to strengthen a structure