

# Year 5 – Building Bridges



Tower Bridge,  
London



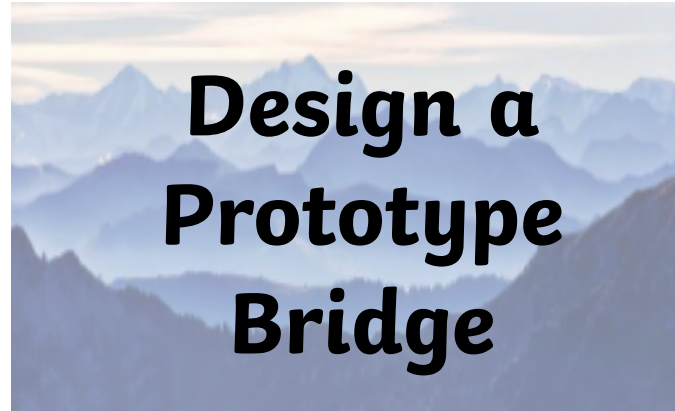
Clifton Suspension  
Bridge, Bristol



Queensway Bridge,  
Manchester

## Key Vocabulary

<b>Stable Structure</b>	A structure that is not likely to fall over.
<b>Stabilise</b>	To make something strengthen or support something.
<b>Beam</b>	A length of sturdy material that has been cut and shaped to span a gap or support a floor/roof.
<b>Pillars</b>	A structure that can span bigger gaps. Made from stone, steel, concrete etc.
<b>Truss</b>	Made up of many beams connected together in different ways.
<b>Arch</b>	A curved structure, usually made from stone steel or wood frame.
<b>Suspension Bridge</b>	A bridge made from cables attached to pillars at anchorage points.



## Golden Threads



Stable  
Structure



## Sticky Knowledge:

A structure is **stable** if it is not likely to fall over or collapse.

**Beams** and **Pillars** are used to strengthen and stabilise a bridge construction.

**Truss**, **Arch** and **Suspension** are type of the most commonly used bridge designs.

Bridges are used to connect to a gap, e.g., crossing rivers, cliffs etc.

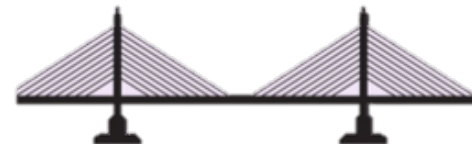
## Types of Bridges:



Truss Bridges



Arch Bridges



Suspension Bridges



Combining these designs to create a strong stable structure.