

# Endpoints for Design and Technology

## Year 4 - Bridge



What I know and can explain
I can name the six basic bridge designs.
I can explain why a truss is stronger than a beam.
I can create a working drawing.
I know how to strengthen, stiffen and reinforce complex structures.
I can use PVA glue accurately.
I can use scissors accurately.
I can measure lengths of material accurately.
Higher Standard
I can design and construct a maquette of a bridge which is able to hold at least 500g.

### Useful Vocabulary

arch  
beam  
cable-stayed

cantilever  
complex  
joint

pier  
reinforce  
structure

suspension  
truss  
working drawing