## Easton CE Academy Knowledge Organiser for Year 4 Science: The big build

## Tier 3 Vocabulary

build	Putting parts or materials together.
bridge	A structure carrying a road or pathway over an obstacle.
construct	To build or make something.
construction	The action of building something, typically a large structure
structure	Something built from different parts
distribution	The way in which something is spread over an area.
tension	Being stretched tight.
force	Strength or energy from a movement.
compression	An increase in pressure.
load	Weight or source of pressure.
deck	The floor of the bridge.
design	A plan or drawing to show the look and function of a structure before it's made.
materials	The matter from which a thing is or can be made.
engineer	A person who designs, builds or maintains engines, machines or structures.
evaluate	To reflect on a process and identify areas that could be better.

## Working and thinking scientifically

## We are being scientists by:

- Setting up simple practical enquiries, comparative and fair tests
- Using straightforward scientific evidence to answer questions or to support their findings
- Making systematic and careful observations
- Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.
- Identify differences, similarities or changes related to simple scientific ideas and processes
- Asking relevant questions and using different types of scientific enquiries to answer them.

Triangles help to distribute t
Suspension bridges have de to distribute the weight eve
Truss bridges is made from con
Beam bridges are the oldest
Arch bridges allow the load to a
and the second



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Key Facts

e the weight more evenly on a bridge design.

lecks hung on suspensions, they rely on tension renly.

connected elements, usually forming triangular units

st and simplest form of bridge with a horizon-

o spread out instead of pushing straight down.

