

Knowledge Organiser - Year 1 DT: Stadiums

Key Question: How can I make a structure strong enough to stand up by itself?

Focus : Freestanding structures

Key Vocabulary

base	the bottom bit that something stands or rests on
construct	to build or put together.
corner	point where two lines or surfaces meet
curved	has the shape of a curve and is not straight.
design	make or draw plans.
edge	a line where two surfaces meet.
evaluate	decide how good or bad something is.
fix	to make stable or steady
fold	to bend over upon itself so that one bit lies on or against another bit.
framework	structure that supports something built on or around it.
join	to put, bring, or fasten together.
metal	material that can be shaped with heat or pressure. Iron, silver, copper, and gold are metals.
plastic	man made material that can be easily shaped when soft. Plastic is formed into many shapes and products
side	one of the surfaces of an object.
strong	not easy to break.
structure	anything that has been built and is made up of a number of parts joined together in a certain way.
tower	a tall, narrow building or part of a building that rises high above the ground.
wall	a structure that forms the side of a building or divides or shuts off a space.
weak	likely to break
wood	hard material lying under the bark that makes up the trunk and branches of a tree.

What will children design, make and evaluate?

A model of a new stadium for AFC Bournemouth. They will look at the basic structures and then focus on stadia to understand their purpose, the design and materials used to make them.



Equipment

construction kits, paper, card, paper/ plastic straws, pipe cleaners , containers, card boxes, cotton reels, string, masking tape, PVA glue, Plasticine, scissors, hole punch, stapler.



Shapes

Square

Rectangle

Cylinder

Cube

Cuboid

Designing, making and evaluating

Go on a walk and look at photos of structures in the local area or around the school.

Draw or photograph structures and label what you notice.

Look at photos of amazing stadiums

Watch the adults show you how to make structures safely using tools and materials.

Build structures using Lego, wooden blocks, and other building kit.

Fold paper or card in different ways to make structures that will stand up by themselves. Use tape to make joins.

You will design, make and evaluate a model for a new stadium for AFC Bournemouth.

Talk, draw and make models of your ideas with blocks, Lego and other materials.

Make your final stadiums from Lego, blocks, junk or new materials .

Evaluate how good your stadium is.

