

Y5 Design Technology Knowledge Organisers



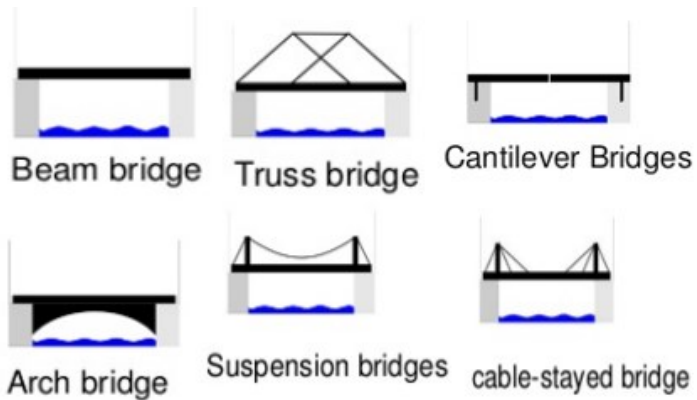
TO DO

- ☒ creative
- ☒ concept
- ☐

es!

Innovation

Y5 Autumn Term - DT—Rainforests and Mayans



Tower Bridge, London



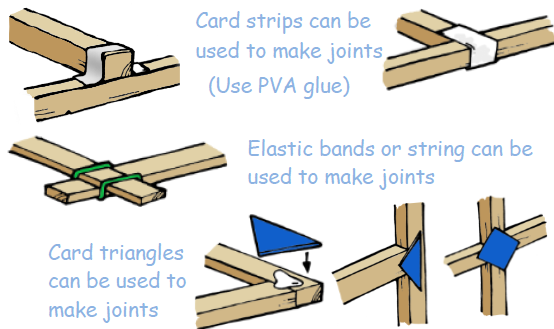
Golden Gate Bridge, San Francisco



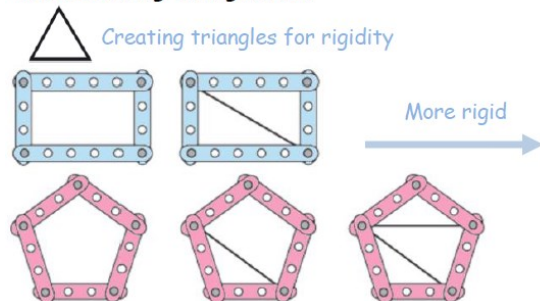
Sydney Harbour Bridge, Sydney

Skill development: Strengthening a structure

Joining thin sectioned pieces of wood



Understanding triangulation



Existing products








- Beam bridges are the simplest structural forms for bridge spans supported by a pier at each end.
- A truss bridge is a bridge with its load-bearing structures composed of a series of wooden or metal triangles, known as trusses.
- A cantilever bridge is a bridge built using cantilevers, structures that project horizontally into space, supported on only one end.
- An arch bridge is a bridge with abutments at each end shaped as a curved arch.

Vocabulary

stiffen	To make something stiff or rigid. This is important when making a bridge as it will help the bridge hold its shape.
strengthen	To make something become stronger.
reinforce	To strengthen a material that could weaken when force is applied.
stability	The state of being stable.
triangulation	If you look closely at a bridge, you will notice that they often have triangles in their design. It's like that because triangles are stronger than squares. When you push hard on a square, the whole thing collapses. But when you push on a triangle, it keeps its shape. So triangles make stronger structures. This is called triangulation.

Y5—Summer Term—DT—Cooking and Nutrition

In this unit, we will learn all about the main food groups and the different nutrients that are important for health. We will find out how a variety of ingredients are grown, reared, caught and processed to make them safe and palatable / tasty to eat. We will also begin to become more independent when selecting appropriate ingredients and use a wide range of techniques to combine them.

Nutrient	Found in... (examples)	What it does/they do
carbohydrates		provide energy
protein		helps growth and repair
fibre		helps you to digest the food that you have eaten
fats		provide energy
vitamins		keep you healthy
minerals		keep you healthy
water		moves nutrients around your body and helps to get rid of waste

Key Vocabulary

healthy	in a good physical and mental condition
nutrients	substances that animals need to stay alive and healthy
energy	strength to be able to move and grow
saturated fats	types of fats, considered to be less healthy, that should only be eaten in small amounts
unsaturated fats	fats that give you energy, vitamins and minerals



criteria



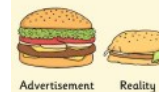
proportion



protein



texture



Advertisement Reality

appearance



sustainable



reared



taste



specification



blanch



seasonal



griddle



processed



ripe



refine



caught