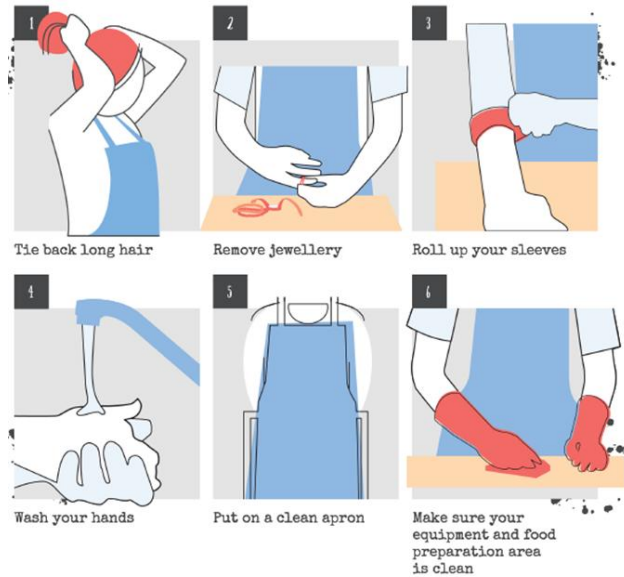
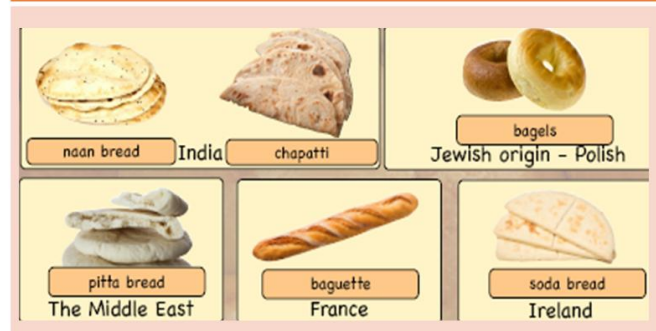




Where does bread come from?



Bread Ingredients

500g strong flour
1 tsp salt
20g butter
7g yeast
300ml warm water

Tier 2 Vocabulary



describes what a product has to do
to judge if a product meets chosen
criteria



a plan or drawing of your ideas

Topic Vocabulary



Work moistened flour into dough or
paste with the hands.



A utensil made of a wire or plastic
mesh held in a frame.



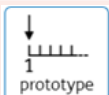
A microscopic fungus.



The feel, appearance, or consistency of
a surface or a substance.



Maintaining health and preventing
disease, especially through cleanliness.



A quick 3-D model used to check a
design



Something that is made

National Treasures

The Great British Bake Off!



Rights of the Child/Global Goals

Article 24

Every child has the right to the best possible health. Governments must provide good quality health care, clean water, nutritious food, and a clean environment and education on health and well-being so that children can stay healthy.

Global Goal 3

Good health and wellbeing

Prior learning

Healthy choices and healthy eating plate
Seasonal food



DT Big Ideas

We Are Engineers

Design: we use criteria to design products that do a job for a person or group.

Make: we make products that do a job or solve a problem.

Evaluate: we continually reflect on our work and that of others and we look for ways to improve it.

Technical Knowledge: we apply our understanding to make products that work.

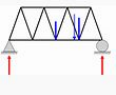
Cooking and Nutrition: we use what we know about food to safely prepare healthy meals.

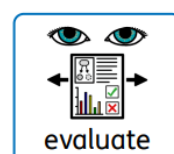
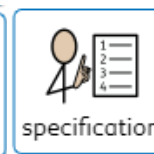
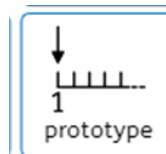
Name of bridge	Location	Type of bridge	Photo
Akashi Kaikyo Bridge	Japan	Suspension bridge	
Clifton Suspension Bridge	England	Suspension bridge	
Chaotianmen Bridge	China	Arch bridge	
Sydney Harbor Bridge	Australia	Arch bridge	
The Forth Bridge	Scotland	Cantilever bridge	
Tower Bridge	England	Combined suspension and bascule bridge	

Tier 2 Vocabulary

Specification	describes what a product has to do
Evaluation	to judge if a product meets chosen criteria
Design	a plan or drawing of your ideas
Reinforce	to strengthen or support.

Topic (Tier 3) Vocabulary

Arch	A vertical curved structure	
Cantilever	A long piece of wood, metal, etc., that sticks out and supports something above it	
Bascule	A movable section of road.	
Pillar	A tall vertical structure of stone, wood or metal	
Truss	A framework used for support.	
Suspension bridge	A bridge in which the weight of the deck is supported by vertical cables.	
Prototype	A quick 3-D model used to check a design	
Product	Something that is made	



National Treasures

Tower Bridge



Prior learning

How to strengthen materials

Working to design criteria

Forces (pushes and pulls) from science lessons

Shape knowledge

Rights of the Child/Global Goals

Article 13

Every child must be free to express their thoughts and opinions and to access all kinds of information, as long as it is within the law.

Global Goal 9

Industry, innovation and infrastructure

DT Big Ideas

We Are Engineers

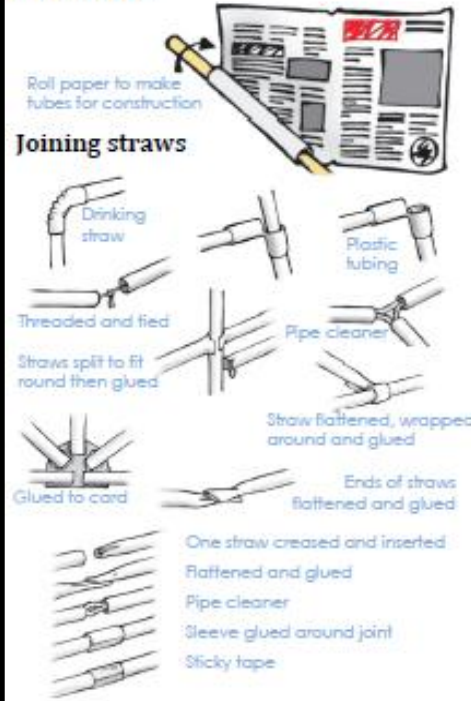
Design: we use criteria to design products that do a job for a person or group.

Make: we make products that do a job or solve a problem.

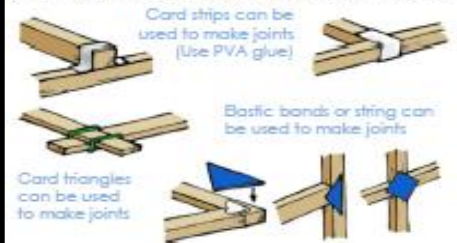
Evaluate: we continually reflect on our work and that of others and we look for ways to improve it.

Technical Knowledge: we apply our understanding to make products that work.

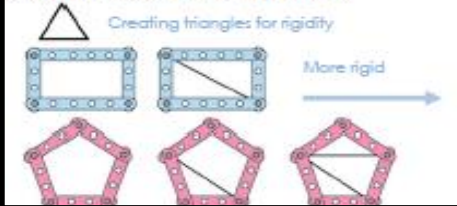
Techniques for building frame structures



Joining thin sectioned pieces of wood



Understanding triangulation



Creating diagonals in your frame will help ensure it stays upright and sturdy.

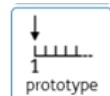
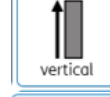
Making 'beams' across shapes will help to reinforce them and keep the object the same shape.



Tier 2 Vocabulary

Innovative	Having a new idea
Evaluation	To judge if a product meets chosen criteria
Design	A plan or drawing of your ideas
Specification	A list that describes what a product needs to do

Topic (Tier 3) Vocabulary



Beams	A long, strong piece of wood or metal used to support
Struts	A rod that is part of a frame work
Reinforce	Make stronger
Diagonal	A straight line that goes from one corner to another inside a shape
Vertical	A line that is parallel to the ground
Horizontal	A line that is at right angles to the ground
Prototype	A quick 3-D model used to check a design
Product	Something that is made

National Treasures

British Fairground



Rights of the Child/Global Goals

Article 13

Every child must be free to express their thoughts and opinions and to access all kinds of information, as long as it is within the law.

Global Goal 9

Industry, innovation and infrastructure

Prior learning

Electrical circuits
Mechanisms
Attaching and strengthening materials

DT Big Ideas

We Are Engineers

Design: we use criteria to design products that do a job for a person or group.

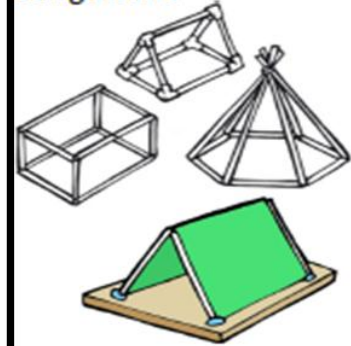
Make: we make products that do a job or solve a problem.

Evaluate: we continually reflect on our work and that of others and we look for ways to improve it.

Technical Knowledge: we apply our understanding to make products that work.

Making small-scale frame structures

Using straws



Using square section wood

