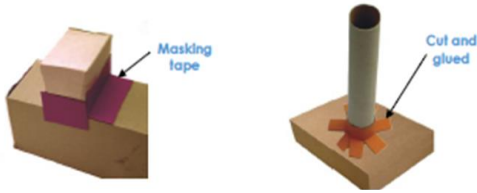
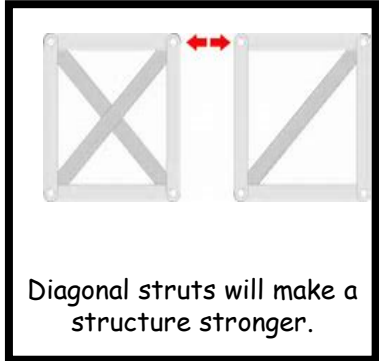
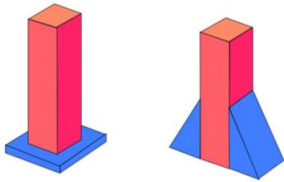


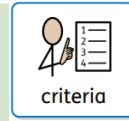
You can join boxes using tape, glue and tabs.



Wide bases make structures stronger.



## Tier 2 Vocabulary



criteria

A list that shows you what the thing you make should be like



evaluate

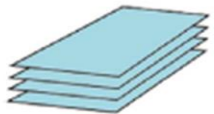
Look at and test your product. Does it do its job?



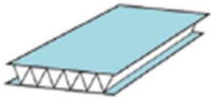
design

A plan or drawing of what you plan to make

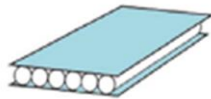
Stiffening and strengthening sheet materials:



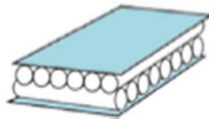
**Laminating:** glue together layers of card



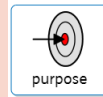
**Corrugating:** zigzag card in between two layers of card



**Ribbing:** glue layers of straws between card



## Topic (Tier 3) Vocabulary



purpose

Why something is needed



annotate

Label



strut

a part of a structure under pressure



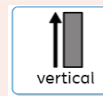
diagonal

a straight line that goes from one corner to another inside a shape



horizontal

a line that is parallel to the ground



vertical

a line that is at right angles to the ground



product

The thing you are making

# National Treasures

British toy shops



# Prior learning

Magnets and how things move on different surfaces from forces lessons in science

How to strengthen materials (KS1)

# 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 reflect on our work all the time, we study other people's products and we look for ways to improve.

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

running stitch

back stitch

whip stitch



Bonded



Woven



Knitted



Felted



Zip



Velcro



Clasp



Toggles



Ties



Buttons



Press studs

Fasteners

Joining fabric



Gluing



Stapling



Safety pin



Pinning



Sewing

Tier 2 Vocabulary



evaluate

Look at and test your product. Does it do its job?



design

A plan or drawing of what you plan to make



criteria

A list that shows you what the thing you make should be like

Topic (Tier 3) Vocabulary



CAD

Computer Aided Design



applique

To attach a decorative fabric item onto another piece of fabric by gluing and/or sewing



seam

A row of stitches joining two pieces of fabric.



sew

To join pieces of fabric with stitches.



pattern

A shape drawn to assist in cutting out shapes.



prototype

A quick 3-D model used to check a design



product

The thing you are making

## National Treasures

### Charles Macintosh

In 1823, Charles Macintosh created waterproof fabric that is also flexible. He was a Scottish chemist and inventor. His material is used to make rain coats.



## Prior learning

Types of materials, waterproof materials (KS1)  
Working to design criteria (KS1)

## Rights of the Child/Global Goals

### Article 13

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**Global Goal 9:** Industry, innovation and infrastructure

## DT Big Ideas

### We Are Engineers

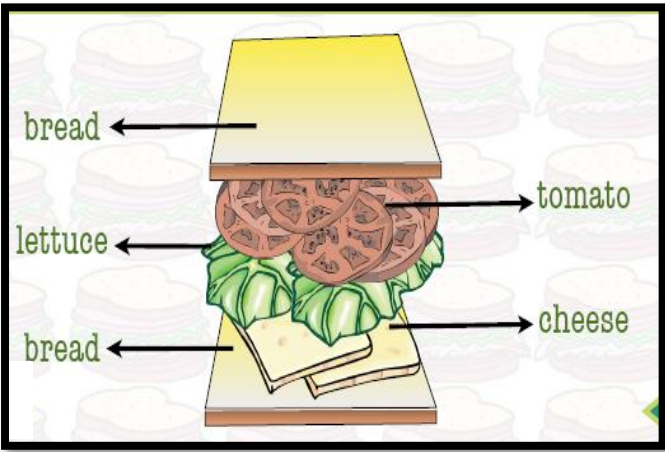
**Design:** we use criteria to design products that do a job for a person or group.

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

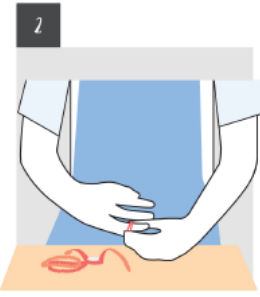
**Evaluate:** we reflect on our work all the time, we study other people's products and we look for ways to improve.

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

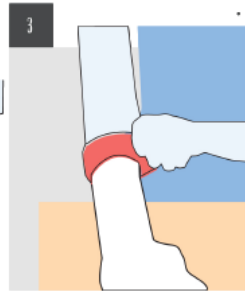
# Exploded Diagram



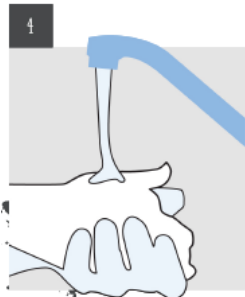
Tie back long hair



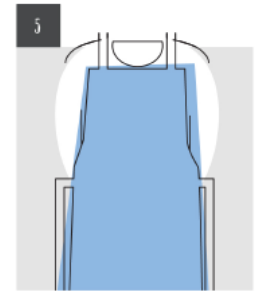
Remove jewellery



Roll up your sleeves



Wash your hands



Put on a clean apron



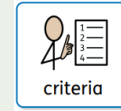
Make sure your equipment and food preparation area is clean

## Tier 2 Vocabulary



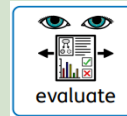
design

A plan or drawing of what you plan to make



criteria

A list that shows you what the thing you make should be like



evaluate

Look at and test your product. Does it do its job?

## Topic (Tier 3) Vocabulary



carbohydrate

Gives you lots of energy



protein

Helps your body grow and repair



dairy

Contains calcium which is good for teeth and bones



sugar

Sweet  
Used to flavor food



fat

Good to taste but not healthy



product

The thing you are making

# National Treasures

## Afternoon Tea



## 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, balanced diet (Y2)



## 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 reflect on our work all the time, we study other people's products and we look for ways to improve.

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

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