

DT in Year 1



Year 1 - DT - Cooking & Nutrition - Must Knows

Top Vocabulary	
whisk	juice
knead	snip

Previously Learnt Vocabulary	
pull	crush
peel	spread
shape	mix / stir
spoon	cut out
grate	tear
sift	cut
bake	measure
follow	wash
clean	like or dislike

Technical Skills

mix

roll out

thread onto stick

beat eggs

start to sift

snip with scissors

Bridge Hold for cutting low resistance foods

Hold the food with thumb and fingers making a 'bridge' shape. Knife goes between so that fingers are protected.

cut out with knife

knead

peeling

grating

Equipment

grater, rolling pin, knife, fork, spoon, table knife, sieve, wooden spoon, cutters, mixing bowl, recipe book, juicer, masher



Health & Safety

Wear an apron

Wash your hands

Long hair tied back

Tidy up time!

rubbish into bin

drying up

Baking

oven

used by an adult

Measuring

digital weighing scales

measuring spoon

Evaluating

Likes & dislikes linked with some of the senses



DT - Textiles - Must Knows - Year 1

New Vocabulary	
fabric (sometimes also called material or cloth)	textiles
sew	sewing
needle	thread (sometimes called 'cotton')
stitch	running stitch

Keeping Safe

Scissors

Equipment that you are using can be sharp. Be careful when using and never run when holding them.

Cut away from yourself. Turn the material when at a corner. Hold with the blade down when passing or walking with them.

Long hair should be tied back.

Tidy up Time

Thread out of needle.

Needles away- Given to an adult.

Scrap fabric put away.

Rubbish in the bin.

Technical Skills

- Learn how to sew using a running stitch
- Begin to use it in a variety of ways - to join fabric together, to make a pattern or design, to applique

- Use a paper template (or pattern piece) to cut out. Position it so we don't waste fabric.
- Cut out carefully with an adult.

Decorating textiles

- There are different techniques we might use to decorate:
- Sew fabric onto other fabric (applique)
 - Attach or glue on sequins, buttons or other decorations

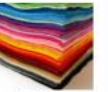
Fabric printing using block print technique

- Make print design on polystyrene block by carving it in
- Roll fabric paint evenly across
- Blot excess off and then print on textile. Repeat in different patterns

Equipment

fabric scissors

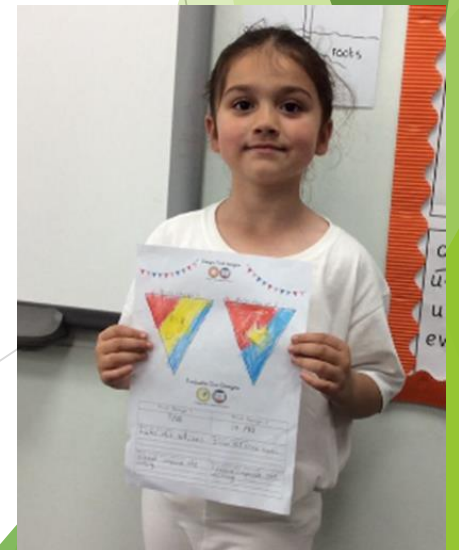
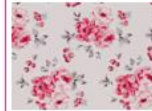
needle and thread



felt

Famous Designers

Cath Kidston - British contemporary textiles designer known for using repeating floral patterns



DT in Year 2



Top Vocabulary		
rub	crack	beat

Previously Learnt Vocabulary	
pull	crush
peel	spread
shape	mix / stir
spoon	cut out
grate	tear
sift	cut
bake	measure
follow	wash
clean	like or dislike
whisk	juice
knead	snip

Year 2 - DT - Cooking & Nutrition - Must Knows

Technical Skills

Equipment

Bridge Hold for cutting low resistance foods

use fork to secure food when cutting

Health & Safety

Wear an apron

Wash your hands

Long hair tied back

Tidy up time!

dry up

wipe down surfaces

scrape into bin

Baking

support with timings and temperatures

oven used by an adult

Measuring

use simple fractions with ingredient amounts

digital weighing scales

measuring spoon

Evaluating

likes & dislikes linked with all senses

retell in order



DT - Structures - Must Knows - Year 2

Top Vocabulary	
Gluing	stable
Materials	Structure
Strengthen	product

Technical Knowledge

Testing different joining techniques.

Making nets or paper mache domes for a roof.

Equipment

Junior hacksaw

Bench hook

Hammer and nails

Glue

Famous Designers

Zaha Hadid - contemporary architect, artist and designer, recognised as a major figure in architecture of the late 20th and early 21st centuries.

Keeping Safe

Keep your work area clear.

Junior hacksaw

Listen carefully to all instructions.

Walk around the classroom.

Long hair tied back.

Tidy up time!

Name on work.

Equipment away.

Desks tidy and clear.

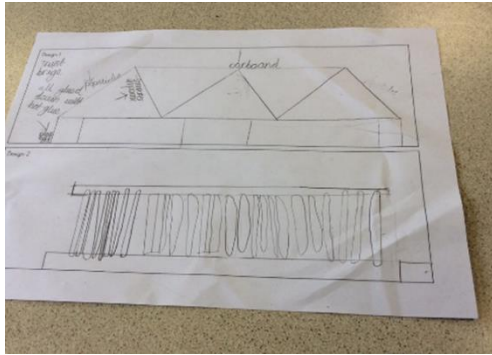
Floor tidy and clear.

Technical Skills -

- Cut materials safely using provided tools.
- Demonstrate a range of joining techniques such as gluing.
- Measure and mark out to the nearest centimetre.
- Demonstrate a range of cutting techniques.
- Use materials to practise drilling, screwing, gluing and nailing materials to make and strengthen products.



DT in Year 3



DT - Textiles - Must Knows - Year 3

You should already know...

Previously Learned Vocabulary		
fabric (sometimes also called material or cloth)	Textiles is when we sew. We are sewing	needle
thread (sometimes called 'cotton')	Stitch (running stitch)	fabric (sometimes also called material or cloth)



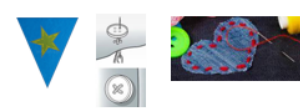
New Vocabulary	
Back stitch	Cross stitch
Applique (sew onto other fabrics)	Pattern
Fastening	finishing technique
seam	Annotated sketch

Technical Skills - Stitches



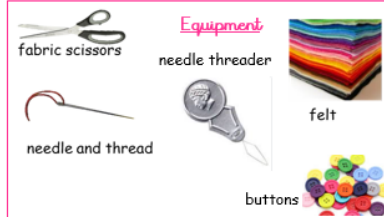
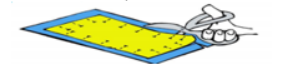
- backstitch**
- Learn how to sew using a back stitch and cross stitch.
 - Join fabrics together using these stitches or running stitch.

- cross stitch**
- Sew fabric onto other fabric (applique)
 - Attach buttons for purpose or decoration



Technical Skills - Pattern cutting

- Use a paper template (or pattern piece) to cut out.
- Position it so we don't waste fabric
- Pin template to fabric so it doesn't move.
- Cut out carefully with fabric scissors.



Famous Designers

Coco Chanel
Famous French designer famous in post-WW1 era. Influential in handbags and other fashion.



Keeping Safe

- Scissors**
- Equipment that you are using can be sharp. Be careful when using and never run when holding them.
 - Cut away from yourself. Turn the material when at a corner.
 - Hold with the blade down when passing or walking with them.
 - Long hair should be tied back.

DT - Structures - Must Knows - Year 3

Top Vocabulary

Construct	Repair
support	purpose

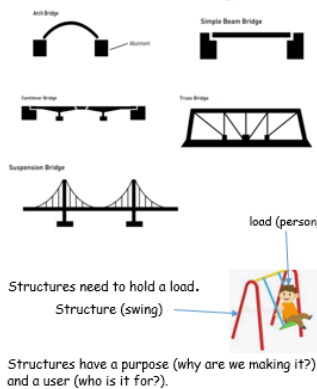
Previously Learned Vocabulary

Gluing	stable
Materials	Structure
Strengthen	product

Keeping Safe

- Keep your work area clear.
- Listen carefully to all instructions.
- Sit down in your seat when using scissors.
- Walk around the classroom.
- Long hair tied back

Technical Knowledge



Structures need to hold a load.
Structure (swing)

Structures have a purpose (why are we making it?) and a user (who is it for?).

Equipment

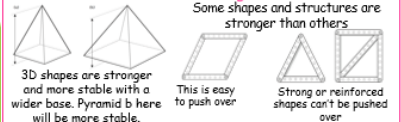


Famous Designers

Isambard Kingdom Brunel - from history (1806-1859)
An influential English mechanical and civil engineer, who was also famous for his bridge building.

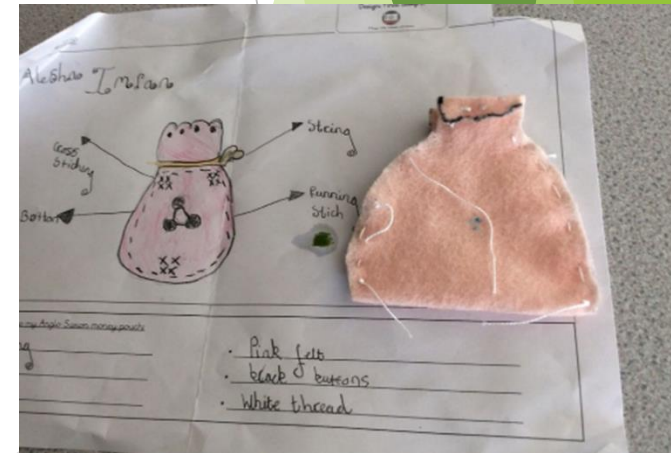
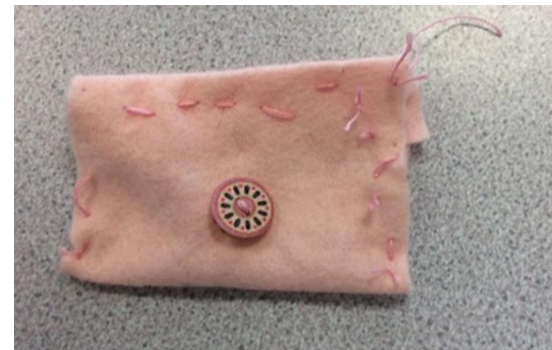


You should already know...

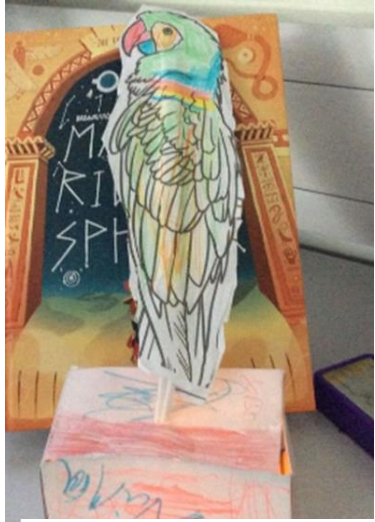


Technical Skills -

- Being to cut materials by selecting appropriate tools with support.
- Being to measure and mark out to the nearest millimetre.
- Select appropriate joining techniques.
- Choose suitable techniques to construct products or to repair items.
- Strengthen materials using suitable techniques.



DT in Year 4



Year 4 - DT - Cooking & Nutrition - Must Knows

Top Vocabulary		Technical Skills		Equipment	
cooling	wrap	Bridge Hold for cutting higher-resistance foods		grater	rolling pin
plait	fry	Claw Grip for cutting		cutlery	cutlery
		Keep your fingers and thumb tucked into a claw shape whilst gripping the food. Cut using knife in other hand. Move claw back along the food until all cut.		knife	sieve
		Health & Safety		wooden spoon	wooden spoon
			Wear an apron	knife	sieve
			Wash your hands	cutters	mixing bowl
			Long hair tied back	whisk	whisk
			clear up any spillages	garlic press	recipe book
		tidy up time!		whisk	cut equally
			wash and dry up	crack eggs	accurately sift
			secure ingredients in containers	oven	used by an adult
			cooling	Baking	On the hob
			test for readiness	Evaluating in charge of timings and temperatures	weighing scales
			used by an adult	oven	used by an adult
			digital weighing scales	measuring jug	measuring jug
			spoon	identify positives & negatives make suggestions for future...	identify positives & negatives make suggestions for future...

DT - Mechanisms and Mechanical Systems- Must Knows - Year 4

Top Vocabulary	
linkage	pivot
guide	bridge

Previously Learnt Vocabulary		
Product	Mechanism	Lever
Pop up	Slider	Split pin
Wheel	Axel	chassis

Technical Skills

Lever and linkage mechanisms usually produce oscillating or reciprocating movement:

- Linear** - in a straight line
- Reciprocating** - backwards and forwards in a straight line e.g. a slider
- Rotary** - round and round e.g. a wheel, cam, pulley, gear wheel
- Oscillating** - backwards and forwards in an arc e.g. a lever

Lever-related words: fulcrum, load, effort, effort arm, load arm

Use punched scrap card, plastic Meccano, or Geostrips

Equipment

Scissors

Glue

Card

Meccano

Famous Designers

Mary Jackson was an American mathematician and aerospace engineer at the National Advisory Committee for Aeronautics, which in 1958 was succeeded by the National Aeronautics and Space Administration. She worked at Langley Research Center in Hampton, Virginia, for most of her career.

Keeping Safe

Keep your work area clear.

Walk around the classroom.

Long hair tied back

Listen carefully to all instructions.

You should already know...

- Slider
- Lever
- Pop up
- Wheel

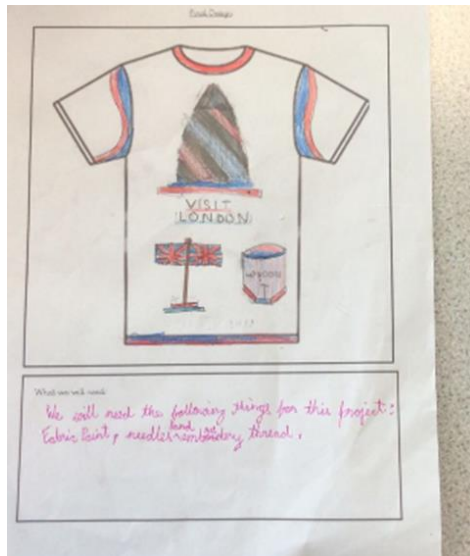
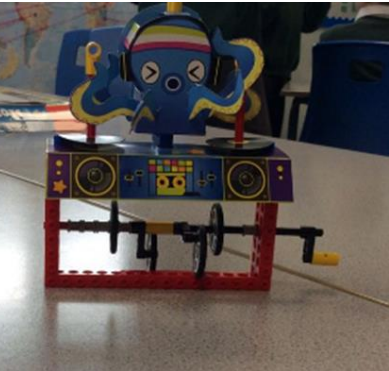
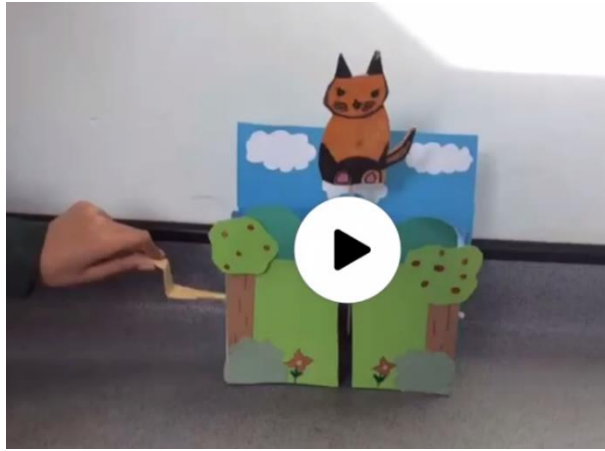
Technical Skills -

Explore & use mechanical systems (different levers and linkages) to create a moving product.

Consider the different placement of the linkages & levers for success of the product.



DT in Year 5



DT - Textiles - Must Knows - Year 5



Keeping Safe

Equipment that you are using can be sharp. Be careful when using and never run when holding them.

Scissors
 Cut away from yourself. Turn the material when at a corner. Hold with the blade down when passing or walking with them.

Long hair should be tied back.

Previously learned vocabulary

Back stitch	Cross stitch
Applique (sew onto other fabrics)	Pattern
Fastening	finishing technique
seam	Annotated sketch

You should already know...

running stitch backstitch cross stitch

Technical Skills - Stitches

satin stitch stem stitch chain stitch

- Learn how to sew using a satin stitch, stem stitch and chain stitch.
- Join fabrics together using any of the previously learnt stitches.

Technical Skills - Decoration

- Sew fabric onto other fabric (applique)
- Attach buttons for purpose or decoration

Technical Skills - Fasteners

- Chose an appropriate fastener for the design brief.
- Attach fastener using an appropriate stitch.

Technical Skills - Pattern cutting

- Create a pattern using paper or card.
- Position it so we don't waste fabric
- Pin template to fabric so it doesn't move.
- Cut out carefully with fabric scissors.

Equipment

fabric scissors needle and thread Items for decoration

needle threader felt fasteners

Famous Designers

from history: William Morris / contemporary: Research own designer that uses nature in their work

William Morris
 British Designer in 1800s. Created many floral patterns with repeating patterns.

New Vocabulary

Aesthetic	Satin stitch
Chain stitch	Stem stitch
Functional	Prototype
Purpose	Design specification

DT in Year 6

DT - Mechanisms and Mechanical Systems- Must Knows - Year 6

Top Vocabulary

gear	electronics	cam
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Previously Learnt Vocabulary

Product	Mechanism	Lever
Pop up	Slider	Split pin
Wheel	Axel	chassis
linkage	pivot	Guide/ bridge

Technical Skills

Linear motion - straight line

Rotary motion - turning in a circle

Some common types of cams

- Round
- Triangular
- Heart
- Star
- Wavy

Clear train
Two or more gears that mesh together

Compound system
A compound gearing system contains two or more pairs of meshing gears. This allows greater changes in speed ratio.

Equipment

- K'nex
- Cams kits
- Hand drill

Famous Designers

Rosie the Riveter
Rosie the Riveter was an allegorical cultural icon of World War II, representing the women who worked in factories and shipyards during World War II, many of whom produced munitions and war supplies. These women sometimes took entirely new jobs replacing the male workers who joined the military.

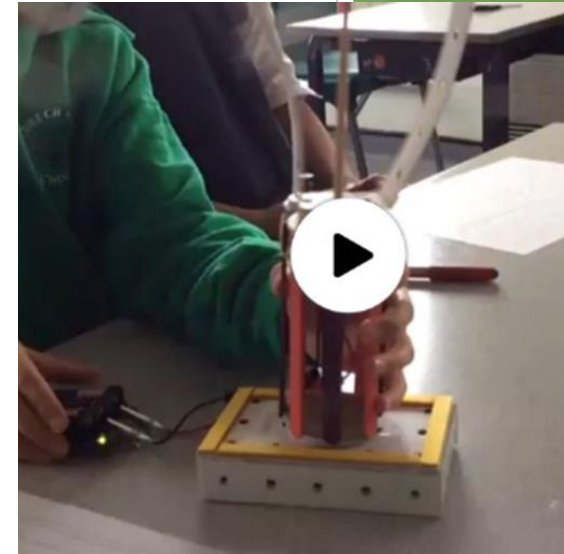
Keeping Safe

- Keep your work area clear.
- Listen carefully to all instructions.
- Walk around the classroom.
- Long hair tied back.

You should already know...

Technical Skills -

- Use innovative combinations of electronics (or computing) and mechanics in product designs.
- Begin to use combinations of electronics (or computing) and mechanics in product designs.
- Explore & use mechanical systems (gears, pulleys and cams)



Year 6 - DT - Cooking & Nutrition - Must Knows

Top Vocabulary

star diagram for rating and evaluating	zesting
trim	rising agents

Health & Safety

- Wear an apron
- Wash your hands
- Long hair tied back
- clear up any spillages

Lidy up time!

- all tidying up jobs

Technical Skills

Bridge Hold for cutting higher-resistance foods

Claw Grip for cutting

Keep your fingers and thumb tucked into a claw shape whilst gripping the food. Cut using knife in other hand. Move claw back along the food until all cut.

cut or slice into equal pieces

Equipment

- grater
- rolling pin
- cutlery
- cutters
- rooden spoon
- whisk
- mixing bowl
- recipe book
- whisk
- juicer
- tip
- balator
- heel
- edge

Baki
consider different rising agents

On the hob

- oven: Adult to use. Children to know exactly how to be safe using oven and be in charge of temperature & timings.
- saucapan: Used to boil, simmer, melt, fry. 1:1 adult supervision

Measuring

- weighing scales
- digital weighing scales
- measuring jug
- measuring spoon
- Star diagram for evaluations against criteria

