

- Autumn
- Spring
- Summer

Substantive Concept
PD Opportunity

Design & Technology Long Term Overview

KS3

Y6

Family Learning

Flatbreads
Linked to history topic Ancient Greeks, children taste flatbreads. They follow a recipe to make flatbreads.

Food

Anderson shelters
Linked to WW2 history, children create an Anderson Shelter. They make a frame out of wood and attach a curved structure. They make it look authentic using paint and craft materials.

Structures

Steady hand game
Children use a buzzer and wire to design and make a steady hand game. They make a stand for it and trial it on peers and younger children.

Electrical systems

Y5

Family Learning

Pencil Case
Children make a working pencil case and are taught how to embroider and sew on buttons. They join seams and make an opening in their pencil case. They used the dyed material they have created in art lessons.

Textiles

Seasonal soup
Children are taught about seasonal vegetables and where they are grown. They learn to grate, sieve and peel. They follow a recipe to make a soup, using the stove.

Food

Moving Toys
Children investigate cam mechanisms and design and make a moving toy, using dowels, discs and wheels.

Mechanisms

Y4

Family Learning

Torch
Linked to science topic on electricity, children learn how to make a reflector and a switch, recapping making a bulb light up. They design and create a working torch with a switch.

Electrical systems

A special box
Children investigate the nets of boxes and create boxes from paper nets. They use card and net templates to design and create a box for a purpose eg a worry box, a box to hold a chocolate.

Structures

Crackers!
Children recap how to use a claw grip from Y3 to slice vegetables. They learn how to spread. They taste 2-3 different crackers. design and create crackers with different toppings, making it all themselves. They taste each others' products.

Food

Y3

Family Learning

Bruschetta
Children make Italian Bruschetta, learning how to slice and chop and use the claw grip and bridge hold.

Food

Egyptian Coffin
Children learn about pneumatics and make a lid on a box open with pneumatics and a balloon. They make a box lid open with a pneumatic mechanism, to make it look like a mummy's coffin that is opening, linked to history Egyptian topic.

Mechanisms

Christmas decorations
Children review Christmas tree decorations. They design and make a fabric tree ornament and decorate it, to hang on the tree.

Textiles

Y2

Family Learning

Movers and sliders
Children learn how movers and sliders work and practise making. They design and make a Christmas Card with a slider/lever.

Mechanisms

Make a bridge
Children look at different types of bridges. They construct a bridge that is strong enough for a toy car.

Structures

Fruit kebabs
Children taste different fruits and create a fruit kebab.

Food

Y1

Family Learning

Fantastic Fruit
Children taste different fruits and create a plate of fruit to their design eg it might look like a rainbow or stripes.

Food

Vehicles – Wheels and axles
Children use junk box modelling to create a vehicle, investigating different axles and ways of attaching wheels using dowelling and wheels. This links to the story of Room on the Broom.

Mechanisms

Puppets - Toys from the past
Children look at puppets and review them, learn and practice joining materials with running stitch. They design and create their own finger puppet. This links to history topic.

Textiles

FS2
Area of EYFS

Autumn
Using glue to join
Using scissors
Structures – Building towers
Making Salt dough - mixing

Spring
Using glue to join
Using scissors
Making Crispy buns – mixing
Make a bird feeding – joining materials/ mixing ingredients
Making a stick wand – joining materials

Summer
Using glue to join
Using scissors
Making a puppet – joining materials
Decorating a gingerbread man