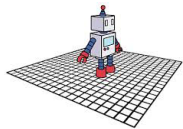


Long Term Overview DT

	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Unit 1	Theme: Structures	Theme: Structures	Theme: Mechanisms	Theme: Mechanisms	Theme: Mechanical System	Theme: Textiles	Theme: Textiles	Theme: Digital World
	Lego and Duplo 	Junk Modelling 	Making a Moving Story Book 	Wheels and Axles 	Pneumatic Toys 	Fastenings 	Stuffed Toys 	Navigating the World 
	Learning Objectives: To experiment with joining Duplo To experiment with joining Lego To share an idea and build with a plan in mind To share ideas with others To make a plan	Learning Objectives: To explore and investigate the tools and materials in junk modelling To learn how to plan and select the resources needed to make a model To develop scissor skills To investigate cutting different materials To verbally plan and create a junk model	Learning Objectives: To explore making mechanisms To design a moving storybook To construct a moving picture To evaluate my finished product.	Learning Objectives: To explore wheel mechanisms To select materials with appropriate properties To build and test a moving wheel To conduct a simple survey to gather opinions To finish and evaluate a structure with a rotating wheel.	Learning Objectives: To explore how pneumatic systems create movement within mechanisms To use different types of diagrams to summarise information To design a toy that uses a pneumatic system To create a pneumatic system for a moving toy To test and finalise ideas against design criteria	Learning Objectives: To explain the advantages and disadvantages of different types of fastenings To design a product to meet design criteria To make and test a paper template To assemble a book jacket	Learning Objectives: To design a stuffed toy To sew a blanket stitch To create and add decorations to fabric To use a blanket stitch to assemble the components of a stuffed toy.	Learning Objectives: To write a design brief and criteria based on a client request To write a program to include multiple functions as part of a navigation device To develop a sustainable product concept To develop 3D CAD skills to produce a virtual model To present a pitch to 'sell' the product to a specified client.

To share a finished model and talk about the process

Nursey

Reception

Year 1

Year 2

Year 3

Year 4

Year 5

Year 6

Unit 2

Theme: Textiles

Theme: Textiles

Theme: Structures

Theme: Textiles

Theme: Digital World

Theme: Structures

Theme: Structures

Theme: Mechanical Systems

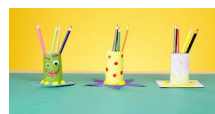
Lollipop Puppets



Bookmark



Making a stable pencil pot



Pouches



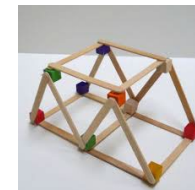
Wearable Technology



Pavilion Structures



Truss Bridges



Automata Toys



Learning Objectives:

To look at lollipop designs

To experiment with joining felt

To experiment with glue and materials

To sew using a large thread and needles.

Learning Objectives:

To develop threading and weaving skills

To practice and apply weaving skills to a specific material

To use threading or sewing to design a product

To create a product using their own design.

Learning Objectives:

To explore stability by balancing

To explore wide or narrow bases by building towers

To test a structure's stability with weight added in different places.

Learning Objectives:

To sew a running stitch

To join fabrics using a running stitch

To decorate a pouch using fabric glue or stitching.

Learning Objectives:

To research and evaluate existing products

To develop design criteria

To use code to program and control a product

To develop and communicate ideas

To develop ideas through computer-aided design.

Learning Objectives:

To create a range of different shaped frame structures

To design a structure

To build a frame structure

To add cladding to a frame structure.

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Learning Objectives:

To explore how to reinforce a beam to improve its strength

To build a spaghetti truss bridge

To measure, mark out and cut materials ready to build a truss bridge

To complete, reinforce and evaluate my truss bridge.

Learning Objectives:

To create a design criterion to meet a user's needs

To use an exploded diagram to assemble a frame

To explore a mechanism to inform a design decision

To evaluate a completed design

	Nursey	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Unit 3	Theme: Food Technology	Theme: Food Technology	Theme: Food Technology	Theme: Food Technology	Theme: Food Technology	Theme: Food Technology	Theme: Food Technology	Theme: Food Technology
	Making Healthy Snacks 	Making a Salad 	Making a Smoothie 	Balanced Diet/Making Wraps 	Eating Seasonally 	Adapting a Recipe 	Developing a Recipe 	Creating a Menu 
	Learning Objectives: To look at healthy and unhealthy food To understand balance To try different good To talk about what snack they would like to make To plan a snack To make a healthy snack	Learning Objectives: To taste salads and talk about what they like and do not like To design a rainbow salad and name the fruit and vegetables used To create a rainbow salad To talk about healthy eating.	Learning Objectives: To identify fruits To describe where fruits and vegetables grow To practise food preparation skills To select ingredients for a recipe To apply food preparation skills to a recipe.	Learning Objectives: To recognise foods and their food groups To identify the balance of food groups in a meal To identify an appropriate piece of equipment to prepare a given food To select balanced combinations of ingredients To design and evaluate a dish.	Learning Objectives: To explain why food comes from different places around the world To explain the benefits of seasonal foods To develop cutting and peeling skills To evaluate seasonal ingredients To design a mock-up using criteria To evaluate a dish.	Learning Objectives: To evaluate existing biscuit products To prepare and cook a dish To select ingredients and follow a budget To take inspiration from existing products To make and test prototype biscuits To evaluate a final product.	Learning Objectives: To understand how ingredients are reared and processed To make adaptations to design a recipe To evaluate nutritional content To practise food preparation skills To design a product label To follow and make an adapted recipe.	Learning Objectives: To explain the use of complementary flavours To research and design a three-course meal To explain recipe choices To apply culinary skills and knowledge in a starter To apply culinary skills and knowledge in a main course To apply culinary skills in a dessert.