

REFER TO MARSHSIDE D&T PROGRESSION DOCUMENT
Each product must address the six DT principles?

-user, purpose, functionality, design decisions, innovations and authenticity.
 Product Analysis -Design- Make- Evaluate -Technical knowledge and Language.
 Specific DT language reference: DATA: Technical Language

Where possible across all areas: Identify great designers and their work and use research of designers to influence work

Rec	Autumn	Spring	Summer
Themes	All about me	Animals	Travel
	Children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. Children use what they have learnt about media and materials in original ways, thinking about uses and purposes. They represent their own ideas, thoughts and feelings through design and technology. Children handle equipment and tools effectively.		
Vocabulary	Assemble Join Design Make Evaluate		
Y1			
Core Texts	Dogger Beegu	Lost and Found Bog baby	Naughty Bus
		Can you design an Easter card with a moving part? (QCA/Planbee example Moving Pictures) Mechanisms-Sliders	Can you design and make a vehicle that can move? (Planbee – Vehicles) Mechanisms- Wheels/Axles
Design Brief		Design and make an Easter Card and surprise them with a moving part.	Can you carry lego passengers over an uneven surface? Consider type and size of vehicle, size and number of wheels, how it might be finished.
Vocabulary		Mechanism Slider Slot Lever Fulcrum Pivot Guide/ Bridge Design Make Evaluate	vehicle wheel axle axle holder chassis body cab assembling Design Make Evaluate

Y2	Autumn	Spring	Summer
Core Texts	Wild I am Rosa Parks	Lila and the Secret of Rain Traction Man	Major Glad, Major Dizzy The Flower
	Perfect Pizzas Exploring and designing their own pizzas (Planbee resource) Nutrition	A Garage fit for a Super Hero! (Planbee resource- Stable Structures) Free Standing Structures	
Design Brief	Design a pizza to eat yourself or with family. Your pizza you design must: be healthy, have at least two types of fruit or vegetables on it, have a source of protein on it, be a source of carbohydrate (the base), be colourful and tasty.	Can you build a free standing structure strong enough to hold your Super Hero's car? (Traction Man link)	
Vocabulary	Nutrition Equipment Ingredients Food Group Balanced Diet Food Source Weighing Sensory vocabulary: soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard, slicing, cutting	Structures freestanding support Weight Strong/weak Rigid Stable Base Materials tab join /attach	

Y3	Autumn	Spring	Summer
Core Texts	Stone Age Boy Orion and the Dark	Escape from Pompeii The street beneath my Feet	Greek Myths The Night Gardener
	Light Up signs (Planbee resource) Electrical Systems – Switches and Bulbs		Seasonal Food (Planbee resource) Nutrition
Design Brief	Design a decorative, illuminated signs for someone's home. Who could we design a sign for? What kind of signs could we design? Where in the home might they be displayed?		What seasonal food from the Night Gardener's garden would he create a feast with?
Vocabulary	Simple Circuit Switch Current Short Circuit Battery/ Cell Switch Input/ Output Device Conductor Insulator Fault Connection Buzzer crocodile clip design criteria innovative		Healthy & Varied Diet ingredients Seasonal Produce Seasonality Sustainability sensory evaluations texture, sweet, sour, hot, spicy, fresh, savoury edible Adding/ Substituting Hygienic Health & Safety
Y4	Autumn	Spring	Summer
Core Texts	Roman Diary The Pied Piper	Egyptian Cinderella The Incredible Book Eating Boy.	Wind in the Willows The Promise
	Bendy Bags (DT Association) Textiles/Structure	Moving Cards! (Planbee resource-StoryBooks) Mechanical Systems -levers and linkages	
Design Brief	There is a new bag shop opening in Hamlin! Design a bag for the shop. Discuss the purpose What do you need to know? Draw up specifications. The Apprentice-Pitch your product!	Create a celebration card with moving parts. Can you use levers and slides? Create a flap with a handle to lift it for a fitting surprise! 1 and 2 fixed points	
Vocabulary	Textiles Sew Stitch Thread Needle Seam Aesthetics Running Stitch Over Sew Stitch Mock up Prototype	Mechanism Lever Linkage Prototype Input Output Pivot Fulcrum Fixed Point Design Make Evaluate	

Y5	Autumn	Spring	Summer
Core Texts	The Lorax Cosmic	Journey to Jo'berg The man who walked between the Towers	Beowulf The Nowhere Emporium
	Moving Lorax (Planbee resource-Moving Monsters) Mechanical Systems - Pneumatics		Great British Dishes (Planbee resource) Nutrition
Design Brief	Design, making and evaluating a monster with a moving part controlled by a pneumatic system to WOW a younger class. What will your monster look like? Which part of your monster will move? How will you use pneumatics to make the part move?		Plan a meal with a budget for your family that they think represents great British food. Record a shopping list, and costs, whether the meal is healthy, and if it is influenced by the cuisine of another country. (Staggered groups – ingredients brought in from home.)
Vocabulary	Pneumatics Compressed, input, output, pneumatic, hydraulic, pressure, inflate, deflate, syringe, tubing, system, purpose, function, prototype, design criteria, innovative, appealing, design brief.		Healthy & Varied Diet Food ingredients spice, herbs, fat, sugar, carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy allergy intolerance savoury source seasonality substituting budget appearance, taste, texture, aroma design brief

Y6	Autumn	Spring	Summer
Core Texts	Goodnight Mr Tom Pig heart boy	Tales of the Arabian Nights Wonder	Trash The spider and the Fly
	Make A Game (barefootcomputing.org/resources/make-a-game-project) Computer Programming		Bespoke Bird House Builders! (Planbee resource) Complex Structures
Design Brief	Design write and debug programs. Create a simple game using Scratch for Year ? to use in their ? topic Features: A location/background, moving character, an objective/score, goals/rewards, obstacles, timer.		Design, make and evaluate a bespoke bird house suitable for birds local to Marshside to nest in.
Vocabulary	Creating, program, monitor, control algorithms concepts sequence selection repetition variables sequence debugging evaluation		Frame Structures Rigid Beam Column Joints Foundations Triangulation Bracing Horizontal/Diagonal/Vertical strengthen reinforce, stability, temporary, permanent, design specification, prototype, annotated sketch, purpose, user, research, functional.

References: National Curriculum DATA – Design and Technology Association

Where to find? Shared Drive Ref: T:\2022 - 2023\Curriculum Areas\Design Technology\Overview

Planning Resources Referenced: T:\2022 - 2023\Curriculum Areas\Design Technology\Resources