

Subject intent: Design-Make-Evaluate. Design and make things for a particular purpose. Interactive-test, refine, develop. Use creativity and imagination. Nutrition.
Subject: Design and Technology: user, purpose, functionality, design decisions, innovations and authenticity. **Lead: Sarah Yarwood**

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.		
Y1			
Themes	Naughty Bus-Where do and did the wheels on the bus go? Beegu – What does Beegu think of life on planet Earth?	Lost and Found-Why can't a penguin live near the equator? Bog baby- Jeanne Willis-Why are humans not like tigers?	Dogger-Why are ipads more fun than my grandparents old toys? The Rabbit Problem-Why are there so many leaves on the floor?
	Can you design and make a vehicle that can move? (Planbee – Vehicles) Mechanisms- Wheels/Axles	Can you design an Easter card with a moving part? (QCA/Planbee example Moving Pictures) Mechanisms-Levers/Sliders	Eat more fruit and vegetables. (QCA example or similar food focus) Nutrition
Design Brief	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.	Design and make an Easter Card and surprise them with a moving part.	Design and make fruit salads for an end of term picnic. How can you make fruit interesting to eat? What could you use? What will it look/taste like?

Y2	Autumn	Spring	Summer
Themes	Wild - Why would a dinosaur not make a good pet? I am Rosa Parks-How have people like Rosa person Parks helped to make the world a better place?	Lila and the Secret of Rain.-Where would you prefer to live: England or Africa? Traction Man-What would traction man use to build our school?	Major Glad, Major Dizzy - What do we know about the Victorians and the way they lived? How old are the trees around us?-Little Evie in the Wild Wood.
	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 and make a wind-up toy. (QCA example-Winding Up) Mechanisms- Wheels/Axles
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)	Make a wind-up toy for Reception class to help them learn a nursery rhyme. Which winding mechanisms would be most suitable for your toy? How will you make it strong enough for people to use?

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Y3	Autumn	Spring	Summer
Themes	Stone Age Boy- Who first lived in Britain? Orion and the Dark -How far can you throw your shadow?	Escape from Pompeii- What makes the earth angry? The street beneath my feet-What do rocks tell us about the way the Earth was formed?	Greek Myths – Why were the Ancient Greeks ruled by their gods? The night gardener-What makes plants and flower grow and flourish?
	Light Up signs (Planbee resource) Electrical Systems – Switches and Bulbs	Moving Cards! (Planbee resource-StoryBooks) Mechanical Systems -levers and linkages	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?	Create a celebration card with a moving part using a lever and pop up parts.	Can you use what you have learnt to create a banquet in Roman/Greek style to present to your parents.
Y4	Autumn	Spring	Summer
Themes	Roman Diary-Who were the Romans and what did we learn from them? The Pied Piper-Why is the sound made by Little Mix enjoyed by so many?	Egyptian Cinderella-How can we recreate the wonder of Ancient Egypt? What happens to the food we eat?-The Incredible Book Eating Boy.	Wind in the Willows- Why are so many of the world's cities situated by rivers? The Promise-Which animals and plants thrive in our local environment?
	Slippers (QCA example-Slippers) Structure/Textiles	Moving Cards! (Planbee resource-StoryBooks) Mechanical Systems -levers and linkages	Alarms (Planbee resource) Electrical Systems - Buzzers
Design Brief	There is a new shoe shop opening in Hamlin! Design a single prototype slipper. Discuss the purpose What do you need to know? Who could you ask? Draw up specifications. Will the slippers be functional, decorative, or both? Who will wear the slippers? What size? Will they be suitable? Will they be warm? What is most important? 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!	Can children design an alarm system that is suitable for a particular purpose and audience? Can children apply what they have learnt about alarms, circuits and switches when designing their own alarm systems? Can children discuss and refine their designs?

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Y5	Autumn	Spring	Summer
Themes	The Lorax- Why should the rainforests matter to all of us? Cosmic- Its one giant leap for all boy kind-Will Liam really be the next astronaut to land on the moon?	Journey to Jo'berg-Why should Britain be ashamed of slavery? The man who walked between the towers-Does everything that goes up always come down?	Beowulf-Who were the Anglo-Saxons and what were their links to Christianity? The Nowhere Emporium-How different will you be when you are as old as your grandparents?
	Moving Lorax (Planbee resource-Moving Monsters) Pneumatics	Moving Toys (Planbee resource) Mechanical Systems - cams, pulleys and gears	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?	Investigate toys and their mechanisms. Design, make and evaluate a moving toy with a cam mechanism.	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.)

Y6	Autumn	Spring	Summer
Themes	Viking Boy – Were Vikings always victorious and vicious? Pig heart boy – Why is our heart the most important pump we own?	Tales of the Arabian Nights – Why was the Islamic civilisation known as the golden age? Wonder –Have we always looked like this?	Trash – Why is Brazil one of the most talked about countries? The spider and the fly – How can we find out if spiders and flies are related?
	Roll up, Roll up! Fairground (Planbee resource) Electrical Circuits	Programming Pioneers (Planbee resource) Computer Programming	Bespoke Bird House Builders! (Planbee resource) Complex Structures
Design Brief	Design, make and evaluate a rotating fairground ride using a motor. What other mechanisms might you use? Pneumatics learning from Year 5? Axles from Year 1/2?	Can you develop a home improvement? Developing, testing and prototyping computer-controlled electronic systems.	Design, make and evaluate a bespoke bird house suitable for birds local to Marshside to nest in.

References: National Curriculum DATA – Design and Technology Association

Where to find? Shared Drive Ref: T:\2020 - 2021\Curriculum Areas\Design Technology\Overview

Planning Resources Referenced: T:\2020 - 2021\Curriculum Areas\Design Technology\Resources