



Linton Mead Subject Curriculum Overview for DT

Year group	Autumn 2	Spring 2	Summer 2
1	Enquiry Question: What is the function of a slider/lever?	Enquiry Question: Is my structure fit for a purpose?	Enquiry Question: How do I prepare a healthy meal?
	Topic/Area of Study: MECHANISM Sliders and Levers Intended learning: To be able to research, design, make and evaluate their own moving picture, using sliders and levers to allow the pictures/images to move.	Topic/Area of Study: STRUCTURES Freestanding Structures Intended learning: To design, make and evaluate of a model of a freestanding structure, for a particular user and purpose. (The children will design, make and evaluate a cupcake stand for a class afternoon tea party).	Topic/Area of Study: FOOD Preparing fruits and vegetables (Fruit Salad) Enquiry Question: How do I prepare a healthy meal? Intended learning: Children will begin to understand the basic principles of a healthy and varied diet. They will be introduced to some 'unfamiliar fruits'. They will look at where the most common fruits (apples, oranges etc) come from.
2	Enquiry Question: How do I make my mechanism fit for purpose?	Enquiry Question: What is the purpose of a healthy meal?	Enquiry Question: Can I join materials effectively?
	Topic/Area of Study: MECHANISM Wheels and axles Intended learning: Children will learn how to use wheels, axels, chassis and dowels to put a vehicle together.	Topic/Area of Study: FOOD Preparing fruits and vegetables (Smoothies) Intended learning: Children will learn about and taste different types of fruit. They will learn about the different food groups and what is required to maintain a healthy diet. They will learn what a smoothie is and what is required to create a healthy, colourful and tasty smoothie. They will recap on food origins learnt in year 1 and proceed with learning where less common fruits and vegetables originate from.	Topic/Area of Study: TEXTILES Templates and joining techniques Intended learning: Children will learn how to perform practical tasks including cutting, shaping and joining, using simple techniques.
	Enquiry Question: What is the purpose of a shell structure?	Enquiry Question: How do I make a functional product from textiles?	Enquiry Question: What constitutes a healthy, balanced diet?

3	Topic/Area of Study: STRUCTURES Shell structures Intended learning: Children will learn what a shell structure is and be able to identify reasons as to why it is/is not fit for purpose. They will learn if these shell structures are natural or man-made. They will use their learnt knowledge of shell structures to make their own moneybox.	Topic/Area of Study: TEXTILES 2-D shape to 3-D product Intended learning: Children will begin to look at basic types of stitches and they will learn which stitches are good for different purposes. They will use their learnt knowledge of reusable bags and stitches to create their own reusable bag.	Topic/Area of Study: FOOD Healthy and varied diet (Wrap/Sandwich) Intended learning: Children will learn the principles of nutrition and healthy eating and understand and apply the principles of a healthy and varied diet.
	Enquiry Question: Is my lever system fit for purpose? Topic/Area of Study: MECHANICAL SYSTEM - Levers and linkages Intended learning: Children will create a greeting card. They will learn how different everyday objects move using levers and linkages. Children will use levers and linkages to create a moving greeting card.	Enquiry Question: Can I perform a specific function with a circuit? Topic/Area of Study: ELECTRICAL SYSTEM - Simple circuits and switches (including programming and control) Intended learning: Children will learn the process of an electrical system. They will use this knowledge to create a working 'steady-hand' buzzer game.	Enquiry Question: How do I create and sustain a balanced diet? Topic/Area of Study: FOOD Healthy and varied diet (Making Bread-flavours /textures) Intended learning: Children will learn how to cook and apply the principles of nutrition and healthy eating. They will develop a deeper understanding of why we need each food group and what the direct benefits are on our bodies.
5	Enquiry Question: Can I build a structure to suit a specific brief? Topic/Area of Study: STRUCTURES Frame Structures Intended learning: Children will learn about different frame structures and their purpose. They will learn what makes a frame structure sturdy and which types of structures are better and why. They will explore diagrams identifying various structures using technical vocabulary to annotate the different parts.	Enquiry Question: Can I design a mechanical system to meet a specific criteria? Topic/Area of Study: MECHANICAL SYSTEM Pulleys and Gears/ CAMs Intended learning: Children will learn what mechanical systems are used to make moving toys. Which material would be most appropriate to match their chosen mechanical system to create their own moving toy – money-box.	Enquiry Question: How do I sustain a balanced diet through the seasons? Topic/Area of Study: FOOD Celebrating culture and seasonality (Seasonal veg - Soups and stews) Intended learning: Children will develop an understanding of the term 'seasonality', and know where and how a variety of ingredients are grown, reared, caught and processed.
	Enquiry Question: What are the most efficient methods of combining mixed fabrics? Topic/Area of Study: TEXTILES Combining different fabric shapes (including computer-aided design) Intended learning: To learn that products are designed for a particular purpose and are suitable for different users. Children will learn a variety of stitching methods, such as cross stitch, back stitch and running stitch. They will use this knowledge to create a holder for a small object such as a mobile phone. The holder will be made out of material, sewn and layered.	Enquiry Question: Can I design and build a complex circuit to meet a specific brief? Topic/Area of Study: ELECTRICAL SYSTEM More complex switches and circuits (including programming, monitoring and control) Intended learning: Children will recap on circuits, chassis and how we can connect them together to make the chassis move.	Enquiry Question: How do I promote the longevity and sustainability of cooking? Topic/Area of Study: FOOD Celebrating culture and seasonality (Biscuits/Savoury scones/ Savoury muffins) Intended learning: Children will be able to prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.
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