## DT – Curriculum objective progression overview and coverage

	Nursery	Reception	Yr1	Yr2				
Generation of ideas	Develop own ideas and decide which materials to use to express them.	Explore and refine ideas and designs.	<ul><li>Create a design to meet simple design criteria.</li><li>Moon Zoom</li></ul>	Generate and communicate their ideas through a range of different methods. Towers, tunnels and turrets	Develop design criteria to inform a design. Scrumdiddlyumptious, Towers, tunnels and turrets	Use annotated sketches and exploded diagrams to test and communicate their ideas.  I am Warrior!	② Use pattern pieces and computer-aided design packages to design a product.  Scream Machine	Develop design criteria for a functional and appealing product that is fit for purpose, communicating ideas clearly in a range of ways.  Bloodheart, ID
Use of ICT			② Use design software to create a simple plan for a design.	② Use design software to create a simple labelled design or plan.		Prite a program to control a physical device, r such as a light, speaker or buzzer.	1 /	② Use a sensor to monitor an environmental variable, such as temperature, sound or light.  Tomorrow's World
Structures	Make imaginative small worlds with blocks and construction kits.	Construct simple structures with models independently sometimes following instructions.	Construct simple structures, models or other products using a range of materials. Moon Zoom	•	Create shell or frame structures using diagonal struts to strengthen them. Mighty Metals	Prototype shell and frame structures, showing awareness of how to strengthen, stiffen and reinforce them.	② Build a framework using a range of materials to support mechanisms.	② Select the most appropriate materials and frameworks for different structures, explaining what makes them strong.  Blood Heart
Investigation	Select and use resources with support.	Select appropriate resources with growing independence.	② Select the appropriate tool for a simple practical task.	Select the appropriate tool for a task and explain their choice. Muck, mess and mixtures		Select, name and use tools with adult supervision. Mighty Metals		Select appropriate tools for a task and use them safely and precisely.
Evaluation	Talk about what they like about their own and others work.	Share creations and explain processes they have used.	I Talk about their own and each other's work, identifying strengths or weaknesses and offering support.  Moon Zoom	Explain how closely their finished products meet their design criteria and say what they could do better in the future.  Towers, tunnels and turrets	products and describe how to implement them, beginning to take the views of others into account.	Identify what has worked well and what aspects of their products could be improved, acting on their own suggestions and those of others when making improvements.  Burps, bottoms and bile	Test and evaluate products against a detailed design specification and make adaptations as they develop the product.  Scream Machine	Demonstrate modifications made to a product as a result of ongoing evaluation by themselves and to others.  Blood Heart
Food preparation and cooking	Follow and prepare simple recipes with adult support.		Measure and weigh food items using non-standard measures, such as spoons and cups.	Prepare ingredients by peeling, grating, chopping and slicing. Muck, mess and mixtures	Prepare and cook a simple savoury dish.  Scrumdiddlyumptious	Identify and use a range of cooking techniques to prepare a simple meal.  Burps, bottoms and biles, I am Warrior	Use an increasing range of preparation and cooking techniques to cook a sweet or savoury dish.  Allotment, Scream Machine	Pollow a recipe that requires a variety of techniques and source the necessary ingredients independently.  Blood Heart

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Nutrition	Talk about 'everyday' and 'treat' foods.	Talk about making healthy food choices.	Select healthy ingredients for a fruit or vegetable salad. Superheroes	Describe the types of food needed for a healthy and varied diet and apply the principles to make a simple, healthy meal.	food groups (carbohydrates, protein, dairy, fruits and vegetables, fats	Design a healthy snack or packed lunch and explain why it is healthy.  Burps, bottoms and bile	Evaluate meals and consider if they contribute towards a balanced diet.	Plan a healthy weekly diet, justifying why each meal contributes towards a balanced diet.
Origins of food			Sort foods into groups by whether they are from an animal or plant source.		Identify and name foods that are produced in different places.  Scrumdiddlyumptious	Identify and name foods that are produced in different places in the UK and beyond.	Describe what seasonality means and explain some of the reasons why it is beneficial.  Allotment	Explain how organic produce is grown.
Materials for purpose	Explore different materials freely to develop ideas about how to use them and what to make.	Select and explore a variety of materials. Experiment with colour and design, texture, form and function.	Select and use a range of materials, beginning to explain their choices.  Moon Zoom	Choose appropriate components and materials and suggest ways of manipulating them to achieve the desired effect.  Towers, tunnels and turrets	will be needed for a task and explain why. Mighty metals	Choose from a range of materials, showing an understanding of their different characteristics.  Burps bottoms and bile, I am warrior	Select and combine materials with precision. Allotment, Scream Machine	Thoose the best materials for a task, showing an understanding of their working characteristics.
Electricity			Identify products that use electricity to make them work and describe how to switch them on and off.	© Create an operational, simple	Incorporate a simple series circuit into a model. Mighty Metals	Incorporate circuits that use a variety of components into models or products.	. ,	electrical circuits that incorporate a variety of
Mechanisms and movement			Use wheels and axles to make a simple moving model. Moon Zoom	② Use a range of mechanisms (levers, sliders, wheels and axles) in models or products.	Explore and use a range of mechanisms (levers, sliders, axles, wheels and cams) in models or products.  Mighty Metals	Explore and use a range of mechanisms (levers, axles cams, gears and pulleys) in models or products.	I Use mechanical systems in their products, such as pneumatics and hydraulics.  Scream Machine	② Explain and use mechanical systems in their products to meet a design brief.
Compare and contrast	Talk about similarities and differences in everyday objects.	Sort and compare by children's observations, sometimes with adult defined categories.	Describe the similarities and differences between two products.  Moon Zoom, Superheroes	© Compare different brands of the same product and explain their similarities and differences.		•	Survey users in a range of focus groups and compare results.	Treate a detailed comparative report about two or more products or inventions. optional
Everyday products			Name and explore a range of	Explain how an everyday product	Explain how an existing product	Investigate and identify the design features of a	Explain how the design of a product has been	Analyse how an invention or product has significantly

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		everyday products and describe how they are used. Moon Zoom		benefits the user. Scrumdiddlyumptious, Mighty Metals	familiar product. I am Warrior!	influenced by the culture or society in which it was designed or made.  Scream Machine	
Staying safe	Wash hands before Use a range food preparation small tools, and use one-handed tools and equipment safely.	to keep safe during issors, a practical task.	Work safely and hygienically in construction and cooking activities.  Muck, mess and mixtures		Work safely with everyday chemical products under supervision, such as disinfectant hand wash and surface cleaning spray.	Explain the functionality and purpose of safety features on a range of products.  Scream Machine	Demonstrate how their products take into account the safety of the user.
Significant people		② Describe why a product is important.	Explain why a designer or inventor is important.  Towers, tunnels and turrets	technology have	Explain how and why a significant designer or inventor shaped the world.  I am Warrior!	Describe the social influence of a significant designer or inventor.	Present a detailed account of the significance of a favourite designer or inventor.