

### DT Key Concepts Progression

<b>Mechanisms</b>				
	EYFS	KS1	LKS2	UKS2
Systems	To explore systems in toys e.g. pop up books within continuous provision.	To explore existing mechanisms (wheels and axles, slider and levers).	To explore levers and linkages.	To explore pulleys and gears.
Motion	To understand how to manipulate items (pushing toys forwards and backwards) within continuous provision.	A product that moves forwards and backwards.	A product that moves up, down or left and right.	A product driven by an electrical system.
Joining	Exploring a variety of joining techniques to understand cause and effect (glue, tape, hole puncher, stapler, treasury tags, split pins) within continuous provision.	To fix wheels securely to an axle using a fixed joint.	To use split pins to support making a pivot joint.	Mixture of joints (paper fasteners, elastic bands, glue).

## Textiles

	EYFS	KS1	LKS2	UKS2
Joining	Safely use and explore a variety of tools and techniques. Exploring a variety of joining techniques to understand cause and effect (glue, tape, hole puncher, stapler, treasury tags, split pins) within continuous provision.	To use a running stitch.	To explore a variety of stitches.	To use a variety of stitches and select appropriate technique to join.
Embellishment	To explore a variety of effects to express their ideas using materials for decorative purposes (sequins, buttons, junk modelling, loose parts) within continuous provision.	To colour and decorate a product (adding sequins, buttons, printing).	To select and use a variety of embellishment techniques (sew buttons on, adding velcro).	To select and use a variety of embellishment techniques focussing on the quality of materials (EG. such as soft decoration for comfort on a cushion).
Finishing			To understand and use a seam allowance.	To join textiles with a range of finishing techniques (back stitch for seams, running stitch for embellishment).
Aesthetics				To use the qualities of materials to create suitable visual and tactile

				effects.
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Food				
	EYFS	KS1	LKS2	UKS2
Nutrition	To understand the need for healthy choices.	To understand a healthy and varied diet. Looking at the Eat well plate.	To understand and apply the principles of a healthy and varied diet.	To understand and apply and promote the principles of a healthy and varied diet.
Food Safety	To manage your own basic hygiene and personal needs.	To know how to use utensils and equipment safely and hygienically.	To know what hygiene means, preparing food hygienically, keeping surfaces, utensils and hands clean.	To understand the importance of correct storage and handling of ingredients.
Production	To explore planting seeds and caring for growing plants. To know where some foods come from.	To understand where food comes from.	To know how a variety of ingredients are reared, caught and grown.	To understand local produce and know how a variety of ingredients are reared, caught and grown.
Seasonality			To understand what seasonality means.	To understand the seasonality of food and the implications this can have.
Skill	Use one-handed tools and equipment.		To know how to follow a recipe.	To create and refine my own recipe.

			To know how to control using a hob or oven for cooking.	To measure accurate ratios of ingredients. Demonstrate a range of cooking skills and techniques.
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Electrical Systems				
	EYFS	KS1	LKS2	UKS2
Circuitry			To create simple closed and parallel circuits.	To create circuits using a range of components (EG. buzzers, motors, LEDs, resistors).
Testing			To diagnose a fault in a battery operated device. To diagnose a fault within a circuit.	To diagnose a fault within a circuit and explain why the circuit cannot operate.
Repair			To repair a fault in a circuit with adult assistance.	To independently repair a fault within an electrical system.

## Structures

	EYFS	KS1	LKS2	UKS2
Construction	To use a range of materials to construct for a purpose within continuous provision.	To name and use a range of materials to construct.	With support choose suitable materials and components to construct with.	To select from and use a wide range of tools and materials to construct a frame structure.
Strengthening		To know how to strengthen a product.	To strengthen using a variety of techniques (laminating, corrugating and ribbing).	To strengthen using a variety of techniques (choosing the correct materials to support their frame structure).
Joining	Safely use and explore a variety of tools and techniques. Exploring a variety of joining techniques to understand cause and effect (glue, tape, hole puncher, stapler, treasury tags, split	To select from and use tools to join materials together.	To understand and use nets correctly to join and construct a shape.	To select appropriate joining techniques to secure their structure together.

	pins)within continuous provision.			
Repair	Return to and build on their previous learning and refining their ideas within continuous provision.		To identify and repair a fault with adult assistance.	To independently repair a fault on a frame structure.
Finishing				To use the qualities of materials to create suitable visual and tactile effects (sanding and filing).