Yeadon Westfield Junior School

Design and Technology - Long Term Plan Years 3 and 4

The Design and Technology scheme of work at YWJS is supported by 'Projects on a page' – a national scheme of work for design and technology at key stage 1 and 2.

	Cycle A Year 3 2024-25	Cycle A Year 4 2024-25	Cycle B Year 3 and 4 2025-26
Autumn 1			
Autumn 2			***Textiles*** Egyptian Collars (To assemble Egyptian collars using cross stitch and applique) + Cooking & Nutrition lesson
Spring 1	***Food*** Healthy and varied diet (including cooking and nutrition requirements for KS2) (Links to Mexican food)	***Food*** Healthy and varied diet (including cooking and nutrition requirements for KS2) (Links to Mexican food)	
Spring 2	***Structures*** shell structures (including computer aided design) (Links to Yorkshire e.g. a building to fit in with the natural landscape)	***Structures*** shell structures (including computer aided design) (Links to mountains e.g. mountain shelter to withstand an avalanche)	***Mechanical systems*** Pneumatic toys (create a pneumatic toy using different types of diagrams.)
Summer 1			**Digital World** Wearable technology Designing digital wearable technology and developing a program and housing for a Micro:bit.
Summer 2	***Electrical systems*** simple circuits and switches (including programming and control)	***Electrical systems*** simple circuits and switches (including programming and control)	

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Design and Technology - Long Term Plan Years 5 and 6

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	Cycle A Year 5/6 2024-25	Cycle B Year 5/6 2025-26
Autumn 1	***Structures*** Frame structures. (Make own Anderson Shelters) + Cooking & Nutrition lesson	***Food*** Celebrating culture and seasonality (including cooking and nutrition requirements for KS2) (Links to Greek food)
Autumn 2	***Digital World*** Navigating the world (Develop a finished 3D CAD model in Tinkercad)	***Mechanical systems*** Pulleys and gears (Create a battery powered Mars Rover vehicle linked to science)
Spring 1		
Spring 2	***Electrical systems*** Fairgrounds More complex switches and circuits (including programming, monitoring and control)	
Summer 1		***Textiles*** Combining different fabric shapes (including computer aided design) (Design and make a stuffed toy using a blanket stitch and applique)
Summer 2		