

LifeFull Schools 2025-26 Whole School Curriculum Map - Engineering & Food Technology

EYFS

Autumn - Mechanisms / Structures	Spring - Textiles	Summer - Food
Year A: I am making a roly-poly toy for my friends to play with at school. (2024-25) Year B: I am making a boat for my friends to play with in the classroom water trough. inspired by <i>Mr Gumpy's Outing</i> by John Burningham / <i>Who Sank the Boat</i> by Pamela Allen (2025-26)	Year A: I am making a sock puppet for my friends to use in the classroom story making area. (2024-25) Year B: I am sewing on binka / hessian with a purpose linked to a core text (e.g. superhero emblems for a superhero's cape). (2025-26)	Nursery: I am baking a bread roll* for the forgiving Little Red Hen to share with her friends. <i>inspired by The Little Red Hen (traditional)</i> * end of year curriculum goal for Nursery Reception: I am making healthy oat bars for our class to take on our great adventure to [local trip or picnic].

In the EYFS, the Engineering Week tasks above are supplementary to:

- Additional, skills-based tasks in the woodwork area (1:1 supervision)
- Nurture groups to teach food hygiene and preparation
- Daily finger gym to hone tool use skills
- Adult-initiated activities linked to planning around core texts and themes covered in RE / RSHE. Examples include: making soup while learning the traditional tale of The Enormous Turnip, constructing palaces for Pharaoh while reading bible stories about him and sewing blankets for newborns while learning about their needs.
- Daily, child-initiated engagement with continuous provision, following children's interests (challenges and stimuli may be provided to initiate learning) Provision includes, but is not limited to:
 - indoor and outdoor block areas, tools and design stationery
 - large loose parts and den building equipment for construction and deconstructed role play
 - small loose parts and patterns
 - a variety of construction and shape kits
 - structural and mechanical sets including marble runs, wheels and axles, construction straws, domino rally and cogs
 - sand, tools and moulds
 - water and channeling equipment
 - playdough, tools and joining resources
 - junk modeling and joining resources
 - a wide range of materials for arts and crafts and developmentally-appropriate tools for cutting, shaping, joining, measuring, adhesion and embellishment
 - home corner and mud kitchen, cooking tools and recipe cards
 - programmable Beebots and remote-controlled toys
- Fiction and non-fiction texts on related topics
- Strategic, adult-child interactions which introduce children to the iterative design process and promote understanding of purpose, user, functionality, evaluation and trial and improvement

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KS1

	Autumn Term	Spring Term	Summer Term
Year 1	Mechanisms - wheels and axles Create a car for Mrs Armitage to carry everything that she needs.	Textiles - templates and joining Create a hand puppet for children in the Reception Class to tell the story of The Gingerbread Man.	Food - preparing fruits and vegetables Create a fruit skewer for my family and me to eat as a healthy after-school snack. Significant people / events: Jamie Oliver's and Marcus Rashford's school dinner campaigns
Year 2	Mechanisms - slides and levers Create a mechanical storyboard for children in the Reception Class to tell a story.	Structures - freestanding structures Create an orangutan playground for rangers at Sepilok to train orangutans to survive in the wild.	Food - preparing fruits and vegetables Create a sandwich for staff at my school to include in a healthy packed lunch. Significant people / events: George Cadbury's recipe, invention of the cocoa press and care for people working in food production

LKS2

	Autumn Term	Spring Term	Summer Term
Year 3	Mechanisms - electrical systems, simple circuits and switches Create a lighthouse with a programmable light for the lighthouse keeper to signal to vessels at sea.	Textiles - 2D shapes to 3D products Create a feltie toy for children at our school to use in the classroom calm corners.	Food - healthy and varied diet (including cooking and nutrition requirements) Create a wrap for Year 3 and their families to eat at a healthy picnic. Significant people/events: Greta Thunberg's environmental food campaigns
Year 4	Mechanisms - pneumatics and hydraulics Create a bascule bridge to enable crews of large vessels to travel on the Thames through Hammersmith.	Structures - shell structures Create packaging for Tony's Choclonely to use for Easter Eggs.	Food - healthy and varied diet Create a package of bulla cakes as a treat to give to [named members of the local community]. Significant people/events: Elsie

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UKS2

	Autumn Term	Spring Term	Summer Term
Year 5	Mechanisms - pulleys and gears <i>also incorporating</i> Electrical systems using more complex switches and circuits including programming, control and monitoring Create a fairground ride for _____ to enjoy at Shepherd's Bush funfair. <i>User chosen by pupils.</i>	Textiles - combining fabric shapes including CAD Create a _____ bag for _____ to _____. <i>Product, user and purpose chosen by pupils.</i>	Food - culture and seasonality Create a savoury muffin for customers of [named local bakery] to have healthier snack options. Significant people/events: George Washington Carver's contributions to agriculture and plant product development
Year 6	Mechanisms - pulleys, gears and cams Create a cam toy for a child in the nursery class to play with.	Structures - Frame structures Create a Wildlife Watchers' Cabin for visitors to Lee Valley Park to shelter in while observing wildlife.	Food - culture and seasonality Create a pizza inspired by [specific culture] for Pizza Hut to diversify their menu. Significant people/events: Carlos Monteiro - raising awareness of ultra-processed food and the NOVA scale

Enrichment
- Y6 engineering week run by IntoUniversity - October 2024 - Y5 visited by practising engineers - Spring 2025 - Y5 attended future engineers day at Porsche - Autumn 2024 - Y4 participating in 'Great Exhibition' design project - March 2025 - Y3 & Y1 participating in Leiths School of Food & Wine's cookery project (3 sessions each) - Spring / Summer 2025