





Movement

Year 2 | Summer 1

CURRICULUM SPOTLIGHT: DT | COMPUTING

ENQUIRY

How do creativity and curiosity work together in the world of engineering? How can we make a robot move through a maze?

OUTCOMES

Recycled Racer Championships (in school) and coding maze event for parents/carers

VOCABULARY

DT: **Disciplinary:** Explore, evaluate, product, design, criteria, materials, tools, equipment, ingredients, template, mock up, improve

Substantive: Mechanism, rotating, axle, wheel, guide/bridge, structure, base, vehicle, wheel, chassis, body, cab, thicker, thinner, corner, point

Computing: Functions, code, execute, drive, head, microphones, sensors, sequence, debugging, move, pause, direction, map, location, spatial reasoning, sequencing, loops, constraints

ENGLISH KEY TEXTS

- Cherry Moon by Zaro Weil
- 100 Things to Know About Numbers, Computers & Coding by Various
- The Story of Inventions by Catherine Barr

RESOURCES

Coding kit, card boxes, card, dowel, clothes pegs, paper sticks/dowel, paper/plastic straws, card discs, MDF wheels, wooden wheels, single hole punch, cutting mat, masking tape, PVA glue, paint, thin/thick paint brushes, felt tip pens, decorative paper, double sided sticky fixers, junior hacksaw, vice

CORE CURRICULUM LEARNING OUTCOMES

English	Mathematics	Physical Education	DT
Apostrophes for contracted form and for possession Fext types • Poetry • Explanation • Double page spread	Geometry Recognising 2D and 3D shapes Properties of shape Mass, capacity and temperature Comparison Measuring volume and mass Four operations Money Calculating Comparing	Unit 5 Physical Coordination: Sending and Receiving Agility: Reaction / Response	DesigningDesign purposeful, functional, appealing products for themselves and other users based on design criteria-refining design as work progresses.Generate, develop, model and communicate their ideas through templates, mock-ups and, where appropriate, information and communication technologyMakingSelect from and use a range of tools and equipment to perform practical tasks (for example joining and finishing.)Select from and use a wide range of materials and components, including construction materials and ingredients and textiles, according to their characteristics.Cut materials safely using tools provided. Measure and mark out to the nearest centimetre.Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen).Evaluate; explore and evaluate a range of
Phonics			Create products using wheels & axles.

Extended CodeManaging safety and riskUnit 33 /n/nn/ne/gn/knMinaging safety and riskUnit 37 /j/g/ge/dgeMinaging safety and riskUnits 38/39 /g/gg/gh/guMinaging safety and riskUnits 40/41 /f/ff/gh/phMinaging safety and riskUnit 42 /m/mm/mb/mnMinaging safety and riskUnit 43 /or/oar/ore/our/augh/oughMinaging safety and risk	Food chains - Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.
 Computing Using multiple methods to debug code, responding to the outputs of a progra (Dash) Choose the most appropriate method to make a robot complete a function. Using critical thinking to plan and conduct research, manage projects, solve problems and make informed decisions using appropriate digital tools and resources. Using loops and sequencing to solve problems. Use technology purposefully to create, organise, store, manipulate and retried digital information 	 Exploring why the Mosque is known as the heart of the Muslim community Evaluating how much a mosque helps a Muslim's feeling of belonging Helping others feel belonging