

Spirit of Innovation STEAM Engagement Year One Activity Overview	S	T	E	A	M
	Science	Technology	Engineering DT	Art	Maths
Curriculum Topic	Everyday materials	Algorithms	Sliders, Wheels and Axles	Reuse/Repurpose/ Recycle	Measurement & Shape
Spirit of Innovation Programme Activities including Teaching Resources	Sorting materials into groups	Bee-Bot related activities	Moving plane - lever pictures	Recycled paper plane art; design and create backgrounds these planes; based on PowerPoint input	Paper Tube Plane – Launchers Class Test Flight 1
		Planning algorithms			
	Guess What Material? - Loop Cards	Writing simple codes	Design and build an aircraft with moving parts, using chosen recycled materials	Use ICT to reproduce a similar computer-generated image	Measure and observe top 4 planes. Re-design and make plane Class Test Flight 2
	Matching appropriate materials for building a plane	Debugging and correcting codes			
Other Activity Suggestions	Role Play Theme: Recycling Centre	Use a drawing programme to create own aircraft picture	Use classroom construction kits to build planes with moving wheels and propeller; k'nex, Lego®, Gears	Design a rosette to celebrate the achievement of breaking the Air Speed World Record for an Electric Plane Brightly coloured bottle top sea creature collages; linked to plastic pollution in the ocean.	https://www.instructables.com/id/How-to-make-a-Simple-Paper-Rocket-Launcher/ * A good idea for repurposing 2L plastic bottles.



PIONEERS OF POWER

