



Year Group	8	Subject	Graphics/Resistant Materials	Taught in	Rotation
Title	Toothbrush project Torch				
Summary	Design and create a prototype for a children’s toothbrush based upon a detailed design analysis and product specification. Ergonomically designed for the intended user. Using various graphical techniques to communicate design ideas effectively. Grid paper, Orthographic Projection, Isometric drawing. Creating a prototype of a child’s toothbrush including suitable packaging design. Creating a working electronic torch (Using skills gained from ‘Toothbrush Project’).				
Key Skills	Identify key requirements from the design brief. Create a design specification. Orthographic projection, isometric drawing, production of a prototype. Packaging design and the requirements of packaging (Contain, protect, attract, inform). soldering and understanding basic electronic components and their function.				
Extra-curricular	Bournemouth University. Product Design. ‘Dragon’s Den’ style challenge. Arts University Product Design.				
Cross-Curricular	English. Key words. Design Analysis. Writing a design specification. Persuasive writing. Packaging design. (Sell my product). Science. Selection of materials based upon their properties. Electronics. Art. Contrasting colours, sketching, shape, colour. ICT. 3D design (building). Google Sketch up. Branding/logo design. Maths. Grid paper, drawing to scale, Isometric drawing, accurate measurement. PSHCE. Teamwork, designing for others. Taking into account the needs and requirements of different groups of people.				