



Topic name	Rotation	Skills developed (Research, Design, Make, Evaluate)	Link to NC subject content	Prior learning	Next link in curriculum
Gadget Bags	Textiles Technology	Research- Students will develop research skills to investigate cotton fibres and the fabric Denim, thinking about presentation and the inclusion of all key facts. Make- Students will learn how to thread and use the sewing machine use the overlocker, This will be achieved through the production of a cloth bag made from Denim and another cotton fabric. Students will learn how to apply fabric decoration in the form of decorative stitches and how to sew buttons and beads. They will also learn how to attach a zip to a product. Students will be introduced to the CAD embroidery machine and apply their initials on to the corner of their bag. Evaluate- Students will complete a basic evaluation, reflecting on what they have learnt and how they have implemented their skills. They will also look at the products that they have made and assess how well they have done.	Designing and Making: This project embodies the core principle of the Design and Technology curriculum, which is to encourage students to design and create products. Use of CAD Software: Using 2D Design CAD software corresponds to the digital design and modelling aspect of the curriculum. It enables students to work with digital tools for designing and modelling products. Material Knowledge: Understanding the properties of cotton and selecting appropriate materials. Manufacturing Techniques: The use of a the sewing machine, overlocker and embroidery machine represents a hands-on approach to learning about manufacturing processes. Practical Skills: Students will develop practical skills related to operating machinery and tools. Problem-Solving: This project inherently involves problem-solving, both in the design and manufacturing stages. Evaluation and Testing: Students will evaluate the final product, which is part of the iterative design process emphasised in the curriculum.	Links from KS2: D &T at KS2 level will all be different Links from previous Y7 rotation: Food & Nutrition- Balance, symmetry, and proportion. Product Design- Material properties and characteristics and CAD.	Link to next rotation: <i>Production of PJ bottoms in year 8 that focus on synthetic fibres, design for others and manufacturing.</i>