Year Group and Class	Autumn Term	Spring Term	Summer Term
Reception/Year 1 and Year 1 Pine and Cedar	**1.8 PORTABLE SNACKS** Design a portable snack – a wrap	**1.7 WHEEL AND AXLE MECHANISMS** Design a moving vehicle with wheels and axels.	**1.4 SOLID STRUCTURES** Strength and Structure
Breadth Aspects that will be studied	Design a portable snack thinking about purpose and use. Make a portable snack considering ingredients and taste. Use basic principles of healthy and varied diet.	Design a purposeful, functioning and appealing product. Select and use a wide range of materials and components. Explore and evaluate a range of existing products.	Build structures exploring how they can be stronger and more stable. Explore and evaluate existing products. Evaluate ideas and products against design criteria.
Threshold Concepts Big ideas explored through each topic - (master practical techniques; take inspiration from design throughout history; and design, make, evaluate and improve	Master practical skills – Grating, peeling, slicing, folding, spreading Design, make, evaluate and improve. Take inspiration from design – packaged pre-prepared wraps	Master practical skills – Measuring, cutting, estimating, assembling, joining Design, make, evaluate and improve. Take inspiration from design – A wheeled vehicle	Design, make, evaluate and improve. Take inspiration from design– A mountain, a wall, a brick garage
Milestones – the goals pupils should reach to show that they are meeting the expectations of the curriculum	Cut, peel and grate ingredients safely and hygienically using tools. Assemble ingredients.	Demonstrate a range of joining techniques. Create a product using wheels and axels. Design and make products that have a clear intended purpose. Use software to design –	Explore bridges through time identifying likes and dislikes. Explore how products have been created. Join materials to strengthen products. Use software to design -