Subject: Technology	Year group: Year 3	Topic: Materials – Recycled materials	Initiation & activation
and, where appropriate, information and Make :select from and use a range of tools finishing); select from and use a wide rang ingredients, according to their characteristevaluate: explore and evaluate a range of Technical knowledge: build structures, expressions, (for example levers, sliders, structures).	s and equipment to perform practical tasks, (or example, cutting, shaping, joining and ge of materials and components, including construction materials, textiles and tics existing products; evaluate their ideas and products against design criteria ploring how they can be made stronger, stiffer and more stable; explore and use	Vocabulary:	activities:
Programme of Study*	Implementation:	Impact –lesson sequence:	Evaluations and assessments:
use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computeraided design Make select from and use a wider range of tools and equipment to perform practical tasks, such as cutting, shaping, joining and finishing, accurately select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities	Stiff and flexible sheet materials Do they use the most appropriate materials? Can they work accurately to make cuts and holes? Can they join materials? Mouldable materials Do they select the most appropriate materials? Can they use a range of techniques to shape and mould? Do they use finishing techniques? Developing, planning and communicating ideas Can they show that their design meets a range of requirements? Can they put together a step-by-step plan which shows the order and also what equipment and tools they need? Can they describe their design using an accurately labelled sketch and words? How realistic is their plan? Working with tools, equipment, materials and components to make quality products Can they use equipment and tools accurately? Evaluating processes and products Can they explain what they changed which made their design even better?		

Evaluate investigate and analyse a range of existing products evaluate their ideas and products against their own design criteria and consider the views of others to improve their work understand how key events and individuals in design and technology have helped shape the world Technical knowledge apply their understanding of how to strengthen, stiffen and reinforce more complex structures understand and use mechanical systems in their products, (for example as gears, pulleys, cams, levers and linkages) understand and use electrical systems in their products, (for example series circuits incorporating switches, bulbs, buzzers and motors) apply their understanding of computing to programme, monitor and control their products. **Cooking and Nutrition** understand and apply the principles of a healthy and varied diet prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques

understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. • 50% of this programme of study is taught in Years 5 and 6