Subject: Technology	Year group: Year 4	Topic: Robots – Components	Initiation & activation
and, where appropriate, information and Make :select from and use a range of tool finishing); select from and use a wide rangingredients, according to their characterist Evaluate: explore and evaluate a range of Technical knowledge: build structures, expechanisms, (for example levers, sliders, Food technology: use the basic principles	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 wheels and axles), in their products. of a healthy and varied diet to prepare dishes; understand where food comes from.	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	Electrical and mechanical components		

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.

design?

- Can they evaluate their product, thinking of both appearance and the way it works?
- Do they take time to consider how they could have made their idea better?

• 50% of this programme of study is taught in Years 5 and 6