Design and Technology

Bringing design and technology to life for our young designers of today!

At NET, our Design and Technology curriculum aims to ensure:

- Pupils develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world.
- Pupils are progressively taught knowledge and skills to become innovative and creative thinkers who have an appreciation for the product design cycle: to **design**, **make** and **evaluate** products for a wide range of users developing their technical knowledge.
- Design and technology is an inspiring, rigorous and practical subject.
- Pupils develop the confidence to take risks, through drafting design concepts, modelling, and testing and to be reflective learners who **evaluate** their work and the work of others.
- Pupils are aware of the impact of design and technology on our lives and encourage pupils to become resourceful, enterprising and capable citizens.
- Understand and apply the principles of **nutrition** and learn how to **cook**.

The curriculum follows the Kapow Primary scheme of work and has been strengthened so that pupils revisit the learning in a spiral continuum curriculum. Pupils revisit strands and skills with greater complexity and depth. As the pupils return to a previous strand, prior learning is utilised, providing pupils with the foundations, and building blocks, in order to retain new information in the long-term memory.

Long Term Plan

	Autumn	Spring	Summer
EYFS	DT is a part of our continuous provision and activities: Tools, Textiles, Food, Structures, mechanisms		
Year 1	**Making a Moving Story Book** **Mechanisms** What is a lever mechanism? - KS1 - BBC Bitesize	**Fruit and Vegetables** **Cooking and Nutrition** Where does food come from? - KS1 - BBC Bitesize	**Constructing a Windmill** **Structures** What is a structure? - KS1 - BBC Bitesize
Year 2	**Puppets** **Textiles** How to decorate a product - KS1 - BBC Bitesize	**A Balanced Diet** **Cooking and Nutrition** What is healthy eating? - KS1 - BBC Bitesize	**Baby Bear's Chair** **Structures** Building structures - KS1 - BBC Bitesize
Year 3	**Eating Seasonally** **Cooking and Nutrition** What is seasonality? - KS2 - BBC Bitesize	**Constructing a Castle** **Structures** Strengthening cardboard structures - KS2 - BBC Bitesize	**Pneumatic toys** **Mechanisms** What is a pneumatic device? - KS2 - BBC Bitesize
Year 4	**Static Electricity** **Electrical Systems** What is a component? - KS2 - BBC Bitesize	**Adapting a Recipe** **Cooking and Nutrition** Why is taste important? - KS2 - BBC Bitesize	**Cushions** **Textiles** What is appliqué? - KS2 - BBC Bitesize
Year 5	**Stuffed Toys** **Textiles**	**Bridges** **Structures** Frame and shell structures - KS2 - BBC Bitesize	**What Could Be Healthier?** **Cooking and Nutrition** What are nutrients? - KS2 - BBC Bitesize

	How can fabric joins be strengthened? - KS2 - BBC Bitesize		
Year 6	**Steady Hand Game** **Electrical Systems** What is a component? - KS2 - BBC Bitesize	**Come Dine with Me** **Cooking and Nutrition** What are food choices? - KS2 - BBC Bitesize	**Automata Toys** **Mechanisms** What is a cam mechanism? - KS2 - BBC Bitesize

Rolling Programme

	Autumn	**Spring**	**Summer**
EYFS	DT is a part of our continuous provision and activities: Tools, Textiles, Food, Structures, mechanisms		
Year 2/1 25/26	**Making a Moving Story Book** **Mechanisms**	**Fruit and Vegetables** **Cooking and Nutrition**	**Constructing a Windmill** **Structures**
Year 2/1 26/27	**Puppets** **Textiles**	**A Balanced Diet** **Cooking and Nutrition**	**Baby Bear's Chair** **Structures**
Year 4/3 25/26	**Eating Seasonally** **Cooking and Nutrition**	**Constructing a Castle** **Structures**	**Pneumatic toys** **Mechanisms**
Year 4/3 26/27	**Static Electricity** **Electrical Systems**	**Adapting a Recipe** **Cooking and Nutrition**	**Cushions** **Textiles**
Year 6/5 25/26	**Steady Hand Game** **Electrical Systems**	**Come Dine with Me** **Cooking and Nutrition**	**Automata Toys** **Mechanisms**
Year 6/5 26/27	**Stuffed Toys** **Textiles**	**Bridges** **Structures**	**What Could Be Healthier?** **Cooking and Nutrition**