Design and Technology Long Term Plan

School Organisation

Pupils are currently organised within the following classes:

Class 1 EYFS – Nursery and Reception

Class 2 Year 1 and Year 2

Class 3 Year 3 and Year 4

Class 4 Year 5 and Year 6

EYFS Curriculum

Our Early Years Curriculum offers a wide variety of rich activities and experiences which is crucial to child development. The Design and Technology element lies within 'Physical Development' and 'Expressive Arts and Design' educational programme, although we acknowledge that all areas of learning and development in EYFS are inter-connected, understanding the world involves guiding children to make sense of their physical world and their community. The frequency and range of children's personal experiences increases their knowledge and sense of the world around them.

KS1 and KS2 Curriculum

Curriculum planning has been designed carefully to ensure that the curriculum in Key Stages 1 and 2 meets the expectations of the National Curriculum. Subject Leaders have rigorously planned the curriculum cycles so that all pupils are taught the curriculum, in a sequence which ensures that learning builds on prior learning, no matter how pupils travel through the school.

In KS1, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. Children will work creatively and practically in a range of relevant contexts. In KS2, pupils should extend their knowledge and understanding within these areas and additionally use computer aided design, electrical systems within their products and apply their knowledge of computing to program, monitor and control their products. Cooking and nutrition will be taught across all Key Stages as part of the DT curriculum.

The curriculum across KS1 and KS2 is planned on a 2 year cycle.

Medium Term Planning

Staff use unit planning from Teach Computing to support in their planning and teaching, ensuring that they are covering the National Curriculum objectives identified in the long term planning. Staff use Project Evolve to support the assessment and teaching of online safety from Year 1-6.

DESIGN AND TECHNOLOGY LONG TERM PLAN – EYFS
Early Learning Goal: Expressive Art and Design ELG - Using a range of small tools, including scissors, paint brushes and cutlery.

DESIGN AND TECHNOLOGY LONG TERM PLAN – YEAR 1/2			
Cycle	**Autumn Term**	**Spring Term**	**Summer Term**
A	**Mechanisms -** Vehicles Wheels and axels	**Preparing fruit -** Fruit Kebabs Chopping Piercing & Threading	**Textiles –** Hand Puppets Templates Joining techniques
B	**Mechanisms –** Moving Cards Levers and sliders	**Preparing a meal -** Sandwich and a drink Spreading Assembling Cutting & Grating	**Structures** Freestanding structures

DESIGN AND TECHNOLOGY LONG TERM PLAN – YEAR 3/4			
Cycle	**Autumn Term**	**Spring Term**	**Summer Term**
A	**Mechanical systems –** Moving Card Levers and linkages	**Electrical systems –** Light Up Boxes Simple circuits and switches	**Preparing a hot, savoury dish – Egg muffins** Ham, tuna, cheese, veg etc
B	**Textiles** 2D shape to 3D product	**Structures –** Easter Egg Packaging Shell structures	**Preparing a hot, savoury dish** Pizza

DESIGN AND TECHNOLOGY LONG TERM PLAN – YEAR 5/6			
Cycle	**Autumn Term**	**Spring Term**	**Summer Term**
A	**Structures –** Bird Houses Frame structures	**Preparing a hot, savoury dish – Bread** Mixing Kneading Baking	**Electrical systems** Monitoring and control
B	**Textiles** Combining different fabric shapes	**Preparing a hot, savoury dish – Chinese stir fry** Chicken, veg, sauce, ready to wok noodles Or meat-free alternatives	**Mechanical systems** Pulleys or gears