

## Subject: Design Technology

**Subject Intent:** In Design Technology, we offer a broad and balanced curriculum that focusses on current trends and interests. These projects are developed to capture the imagination of all students and enable them to fully **engage** in active learning that contributes to life-long skills and successful futures. Our curriculum content **develops** a wide range of skills so that individuals can confidently use a selection of machines, tools and processes independently. Students are taught a can-do approach to problem solving and develop an awareness of social demands and expectations in relation to the environment and consumerism. Our curriculum is developed with speech and language therapists to support pupils to **communicate** their ideas and solutions with confidence. Students are encouraged to make a positive contribution and to **aspire** to meet their full potential in all aspects of life at Dawn House School and beyond.

### Develop:

- To develop students' Use of creativity and imagination.
- Enable students to design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values.
- To enable students to become visually and verbally literate and develop the confidence and understanding to communicate.
- Through a diversity of approaches to promote active learning both in small groups and independently.

### Engage:

- High expectations for all students - by setting ambitious learning challenges.
- Equal Opportunities – by responding to pupils' diverse learning needs.
- Potential barriers to learning are identified, addressed and differentiate accordingly for individuals and pupils.
- Projects are developed to capture the interests of students to support further engagement within this topic

### Communicate:

- Keywords and subject specific terminology in lessons
- Discussion and reasoning/explaining answers are a part of lessons.
- Working to embed literacy opportunities into SOW's.
- Increased use of literacy targets
- Encouraging pupils in discussion based tasks to feedback using full sentences
- Adapting KS3 and especially KS4 resources to develop pupils written work e.g. checklists, writing frames, sentence starters

### Aspire:

- Resilience and self-esteem as a learner
- Fine and Gross motor skill development
- Cultural awareness
- Promoting independence and personalised learning
- Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- Build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
- Critique, evaluate and test their ideas and products and the work of others

## Overview:

KS3 inc. Junior:	Autumn 1:	Autumn 2:	Spring 1:	Spring 2:	Summer 1:	Summer 2:
Year 1: (24/25)	Resistant Materials: Acrylic phone holder	Art (see Art Overview)	Art (see Art Overview)	Art (see Art Overview)	System and control: Electronics / Pocket Torch	Art (see Art Overview)
Year 2: (25/26)	Textile Technology: Scented Cushion	Textile Technology: Scented Cushion Art (see Art Overview) Christmas crafts	Art (see Art Overview)	Art (see Art Overview)	System and control: Movement/ moving toy	Art (see Art Overview)
Year 3: (26/27)	Art (see Art Overview)	Textiles Technology: Recycling and Sustainability Christmas crafts	Textiles Technology: Reusable shopping bag Competitions / Exhibitions	Art (see Art Overview)	Resistant Materials: Clock Project	Art (see Art Overview)

KS4/5 Option:	Autumn 1:	Autumn 2:	Spring 1:	Spring 2:	Summer 1:	Summer 2:
Year 1: 24/25	<b>Woodwork Hand Tools E3 (H/616/2913):</b> <ul style="list-style-type: none"> <li>Know about woodwork hand tools</li> <li>Be able to use hand tools in woodwork</li> <li>Be able to work safely</li> </ul>		<b>Produce Basic Woodworking Joints L1 (F/617/0730):</b> <ul style="list-style-type: none"> <li>Be able to use hand tools to produce basic woodworking joints</li> <li>Be able to select and store materials used to produce basic woodworking joints</li> <li>Be able to measure and mark out basic woodworking joints</li> <li>Be able to produce a range of basic woodworking joints</li> </ul>		<b>Finish AIM Units and DT Project</b>	

**Year 2:  
25/26**

**Construct a Timber Product Using Halving Joints E3 (T/616/2785):**

- Know tools required to construct the product
- Be able to prepare materials needed to construct the product
- Be able to identify and measure timber components
- Be able to prepare halving joint
- Be able to fit a joint together
- Be able to glue, cramp, square up and screw the product

**Carpentry and Joinery Skills E3 (Y/617/0605):**

- Know about the tools, equipment and materials used in carpentry and joinery
- Be able to perform basic carpentry and joinery tasks
- Be able to communicate with others when performing carpentry and joinery tasks
- Be able to review own performance

**Finish AIM Units and DT Project**