

Key

Key Aims:

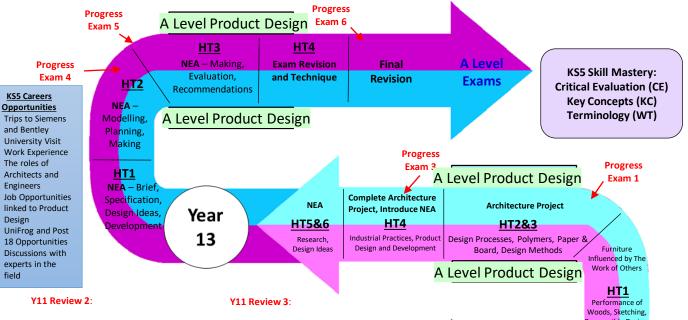
To embed and develop knowledge learnt during KS4

Improve subject knowledge and make the link between **Product Design** and the Real World

Stage 5

- **Opportunities**
- and Bentley
- The roles of Architects and
- Design

Sandbach School **Design and Technology Curriculum**



<u>HT3</u> Year **GCSE Exam Revision Final Revision** NFA -12 **Exams Evaluation** HT2 Technique

HT6

NEA – Research

and Design Ideas

Stage 4

Key

Key Aims:

To embed and develop knowledge learnt during KS3

- Demonstrate a range of skills practical, CAD/CAM, planning and developing
- Be able to Research and understand the needs of the user
- **Improve** subject knowledge and explain the use of Materials and **Processes**

Key Stage 3

Key Aims:

Gaps in National Curriculum

- Practical Expertise
- quality
- tool, techniques
- Range of
- cook range

Y11 Review 1:

- KS4 Careers Links to Designers
- others Literacy and Presentations on
- Discussion and Materials and Processes in Industry

Y9 Depth Curriculum: 9 students develop a detailed understanding about the characteristics, working properties and i.e. HT1 woods

Make high prototypes

- Use specialist and processes
- Materials
- Taught how to of techniques

- and the work of
- Careers

Yr knowledge and

processes linked to key materials and metals and casting, HT2 Technical drawing skills, and HT5/6 **Product** prototyping,

introduced in the Yr 7 and Yr 8 schemes).

testing and

sustainability

(This builds on

related topics &

knowledae

Yr 7 Careers **Opportunities**

Introduction to Careers in D&T about Careers Understanding the Link Between D&T

Y9 Review 3

Breadth

<u>HT5</u>

Drawing and

Communication

Water Sustainability &

Imagineers

Food

Provenance

Year

11

NEA - Making

NEA – Design

Ideas,

Development

Yr9 Breadth - Where Yr7 & 8 receive an introduction to foundation knowledge skills. Yr9 broaden their understanding by applying this knowledge to a focus practical tasks involving the entire design process from product conception to evaluation. Focus on personal organisation, time management, understanding key principles of marking out, cutting and finishing techniques.



HT 6

Iterative

Design

Process



Year

8

HT2

Food Packaging

Textiles Vehicle Design, Product Analysis **Sustainability**

Year

7

<u>HT5</u>

HT1

Furniture

Project

HT1

Healthy

Food

Sketching

techniques

and long

answer

Sketchup/NEA

Prep – Design

movements and

famous designers

<u>HT3</u> Farm to Fork Pt 1

Alongside half termly projects students will study the theoretical knowledge taken

from the AQA specification, which is

highlighted on the DT block plans.

Plywood

lamp, google

SketchUp -

Electronic

Systems CAD

Year

10

HT4

and

sign

Practical Skills 1

& 2 - Designing

Principles.

Making

Properties

HT2 **Furniture Project**

Class discussions

about Careers Exploring the Link between D&T and Industry

Yr 8 Careers

Opportunities
- Further

exploration of

Careers in D&T

Key Stage 2 Curriculum Identifying word types Root words, prefixes, suffixes

- Morphology, etymology Thematic links between Drawing inferences Summarising ideas

Understand wide range of texts

By the end of KS5, students should be able to:

- **Produce** extended and in-depth NEA that demonstrates a practical outcome for a real life problem
- Work alongside a Client
- **Explain** Materials and **Processes in** depth

By the end of KS4, students should be able to:

- **Produce NEA** that has fulfilled the requirements of the Exam **Board and met** the needs of a user
 - Explain a range of **Materials and Processes**
- Made the link between D&T in the Workshop and the Real World Demonstrate a
- range of skills and problem solve

By the end of KS3, students should be able to:

- **Produce** creative ideas
- Have an understanding of how **Designers**
- work **Understand** elements of
- the Design **Process** - Have experienced
- some practical activities