<b>Subject</b>	KS4 Threshold Concepts	How to support students' learning
Year 9	During year 9, students will build on the skills learned in KS3 and develop these and more to prepare for the GCSE NEA. Students will also do revision during each session to enhance their knowledge and understanding of the theory required for the examination in year 11 which is worth 50% of the final GCSE grade.  Students will complete three projects in year 9 which have been designed to cover a range of disciplines in Technology.  Project Aims:  To develop strong observational skills  To develop skills in drawing using Isometric and perspective techniques  To learn how to analyses products in detail  To become aware of several designs/design companies and research 2 in detail  To develop skills to develop designs by studying work from others  To develop high quality modelling techniques  To develop skills in evaluating their work successfully  To learn how to produce a mini design and make project from start to finish  To develop knowledge and understanding of materials/manufacturing processes/workshop skills	<ul> <li>Encourage your child to keep up with the set in session. This can involve completing a task set in session or it could be a new task. Exemplars of the task will always be available on the Online Curriculum to support students.</li> <li>Encourage your child to practise the new skills learned in session. Particularly the drawing exercises as these will be required to be used in the NEA and examination.</li> <li>Encourage your child to enhance their technique further by following YouTube tutorials.</li> <li>One Point Perspective</li> <li>Two Point Perspective</li> <li>Isometric drawing</li> <li>Encourage your child to view the projects to support their learning here: Year 9 - Portal (ttsonline.net)</li> <li>Encourage your child to be safe in the workshop by reviewing the H&amp;S information of the tools and equipment that can be used, found on the curriculum here: Health Safety - Portal (ttsonline.net)</li> <li>Encourage your child to practise the Maths element of the course as 15% of the examination will be mathematically based: GCSE - Maths Skills for Design and Technology - Portal (ttsonline.net)</li> <li>Encourage your child to revise the theory needed for the examination in year 11, worth 50% of the GCSE grade. Students have been provided with an AQA revision guide, or they can you the revision resources here: GCSE Design and Technology Revision - Portal (ttsonline.net)</li> </ul>

# **Project – Design and Designers**

# **Skills and Processes**

What is GCSE Design and Technology?

Isometric drawing techniques

One-Point Perspective

**Two-Point Perspective** 

Three-Point Perspective

**Rendering Techniques** 

Observational drawing and communication of ideas revision

Product Analysis and designer revision

To become inspired and Companies revision

**Design Development** 

Final Design and ACCESSFM

# Term 2

**Project - Architectural Design** 

### **Skills and Processes**

To Identify a variety of papers and boards

To be able to use Grid paper effectively to plan the room structure for the house design

Be able to use cutting equipment with confidence

Demonstrate 2 pt perspective technique

Demonstrate modelling skills

Create an accurate foamboard architectural model

### Term 3

**Project – Be on Time in Style** 

### **Skills and Processes**

Develop knowledge and understanding of several iconic designers/design movements

Extend expertise by doing in depth independent research on Memphis

Build confidence in sketching and presentation skills Demonstrate knowledge and understanding of client by producing a range of creative models

Demonstrate confidence in 3d sketch modelling skills Planning for manufacture

Demonstrate knowledge and understanding of using tools and equipment accurately and safely Build confidence in the workshop Evaluate the process of production in a reflective way

# **Key Vocabulary:**

Horizon, Vanishing points, Rendering, Thick and thin line technique, Presentation/communication, Tone, Creativity Imagination, Sketch, Proportion, Scale, Technique, Detail, Refine, textures, Crating, Investigation, Communication, System diagrams, annotations, exploded drawings Anthropometrics, orthographic drawings, mathematical modelling, prototypes, testing, ACCESSFM, Investigation, Inspiration, Speed sketching, Situation, Design Brief Specification, Room layout, grid paper, floor plans, Foamboard, cutting knife, cutting matt, safety rule, crease, score, cutting, Ettore Sotsass, Memphis, style features, isometric drawing, Pattern, geometric, symmetrical, colourful, angular, Client/customer needs, creativity, imagination, think outside the box, Iteration, PPE, H&S, accuracy, evaluation