# Foxford Learning Plan

YEAR: 13

Topic: Controlled Assessment

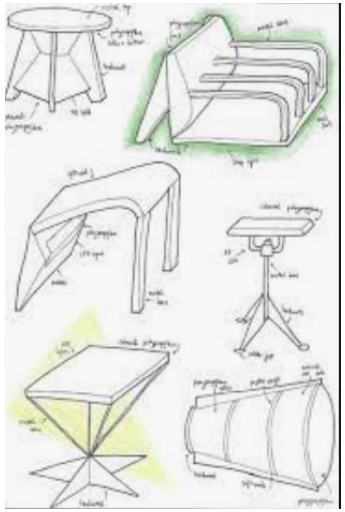
Spring Term

## Key Vocabulary

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| Development | The improvement of an initial idea, looking at each part of the idea and how it be modified and improved. |
| Client | An individual or group of people a designer works with when generating a suitable solution. |
| Computer Aided Design (CAD) | Use of computer software to design and develop products. |
| Computer Aided Manufacture (CAM) | Use of machines linked to computers that manufacture products designed using CAD. Very limited human input is required. |
| Prototyping | Testing an idea through modelling. Materials such as card and modelling foam can be used. |
| Specification | A list of criteria that a product should do, be or have. |
| Working Drawing | A set of 2D drawings that show the dimensions and hidden details of the product. These drawings are used to help with product manufacture. |
| Product Analysis | The process of examining a product to identify the strengths and weaknesses of a product, and why the product has been designed in that way. |
| Evaluation | Critical feedback of a product, ideas or prototype to see if the specification has been met. Improvements that need to be made should be identified. |

## Key Skills

| Over the course of the topic, I will be able to: - |
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| Make informed decisions about how to meet the needs and wants of a client when designing and developing ideas. |
| Write a detailed and relevant specification that is referred to during the design and development of a design solution. |
| Use modelling materials with skill and accuracy to prototype, analyse and test parts of a design. |
| Use a range of appropriate tools, equipment and processes to manufacture a high-quality product. |
| Use client and peer feedback to critically test and evaluate the design as it progresses. |



## I will understand:

1. The importance of prototyping and feedback when designing and manufacturing products or parts of products.
2. Why, how and when a specification is used by designers and manufacturers and their clients.
3. How to use a range of tools, equipment and processes with a high level of accuracy to manufacture a high-quality solution to a problem.
4. That analysing existing products and design problems can help increase the quality of a final solution.
5. Why and how Working Drawings are used during the manufacture of products.