



Year 12 Syllabus in a nutshell

IB DESIGN TECHNOLOGY





Year 12 Syllabus in a nutshell – IB Design Technology

The aim of the course is to provide students with a strong foundational knowledge through teaching the standard and higher-level topics. The knowledge they gain about these within these will allow them to explore the IB approach to Design Technology in year 12. The course is a blend of mini projects, case studies, theory application and testing. The projects will be linked to the taught topic they relate to, and the aim is to be as practical and experimental as possible.

For example, designing a handheld piece of kitchenware to the Bauhaus design movement. This would expose students to a period of history within design and its impact. Then, secondly, the student would investigate ergonomics and anthropometrics, test materials, follow design communication methods, and design model in order to reach a solution to the problem.

The course has a holistic approach when working through design challenges. The students develop the skill to link all the different factors that need to be considered when looking at a solution to a problem. These factors include the appropriate choice of material, the appropriate manufacturing method for the choice of material and potentially the geographical location of manufacture. They also consider the impact both socially, morally, and ecologically on the environment.

Topics	Skills	Assessment
<p>All students follow the core topics below:</p> <ul style="list-style-type: none"> • Human Factors • Resource Management • Modelling • Raw material to final product • Innovation and invention • Classic Design <p>Higher level candidates will study in addition to the topics above, the following.</p> <ul style="list-style-type: none"> • User Centred Design • Sustainability • Innovation and markets • Commercial Production 	<p>It is the intention of the design technology course that students are able to fulfil the following assessment objectives.</p> <p>Demonstrate knowledge and understanding of:</p> <ul style="list-style-type: none"> • facts, concepts, principles and terminology • design methodology and technology • methods of communicating and presenting technological information. <p>Apply and use:</p> <ul style="list-style-type: none"> • facts, concepts, principles and terminology • design methodology and technology • methods of communicating and presenting technological information. <p>Construct, analyse and evaluate:</p> <ul style="list-style-type: none"> • design briefs, problems, specifications and plans • methods, techniques and products • data, information and technological explanations. <p>Demonstrate the appropriate research, experimentation, modelling and personal skills necessary to carry out innovative, insightful, ethical and effective designing.</p>	<p>SL</p> <ul style="list-style-type: none"> • 2 x Exam Papers (60%) • 1 x Coursework IA (40%) <p>HL</p> <ol style="list-style-type: none"> 1. 3 x Exam Papers (60%) 2. 1 x Coursework IA (40%)