

# Planning a progression of learning

Throughout the programme, students should engage with the curriculum and demonstrate their understanding at increasing levels of sophistication.

Year 1 In order to reach the aims of design, students should be able to:	Year 3 In order to reach the aims of design, students should be able to:	Year 5 In order to reach the aims of design, students should be able to:
<b>Objective A: Inquiring and analysing</b>		
<ul style="list-style-type: none"> <li>i. explain and justify the need for a solution to a problem</li> <li>ii. state and prioritize the main points of research needed to develop a solution to the problem</li> <li>iii. describe the main features of an existing product that inspires a solution to the problem</li> <li>iv. present the main findings of relevant research.</li> </ul>	<ul style="list-style-type: none"> <li>i. explain and justify the need for a solution to a problem</li> <li>ii. construct a research plan, which states and prioritizes the primary and secondary research needed to develop a solution to the problem</li> <li>iii. analyse a group of similar products that inspire a solution to the problem</li> <li>iv. develop a design brief, which presents the analysis of relevant research.</li> </ul>	<ul style="list-style-type: none"> <li>i. explain and justify the need for a solution to a problem for a specified client/target audience</li> <li>ii. identify and prioritize the primary and secondary research needed to develop a solution to the problem</li> <li>iii. analyse a range of existing products that inspire a solution to the problem</li> <li>iv. develop a detailed design brief, which summarizes the analysis of relevant research.</li> </ul>
<b>Objective B: Developing ideas</b>		
<ul style="list-style-type: none"> <li>i. develop a list of success criteria for the solution</li> <li>ii. present feasible design ideas, which can be correctly interpreted by others</li> <li>iii. present the chosen design</li> <li>iv. create a planning drawing/diagram, which outlines the main details for making the chosen solution.</li> </ul>	<ul style="list-style-type: none"> <li>i. develop a design specification, which outlines the success criteria for the design of a solution based on the data collected</li> <li>ii. present a range of feasible design ideas, which can be correctly interpreted by others</li> <li>iii. present the chosen design and outline the reasons for its selection</li> <li>iv. develop accurate planning drawings/diagrams and outline requirements for the creation of the chosen solution.</li> </ul>	<ul style="list-style-type: none"> <li>i. develop a design specification, which clearly states the success criteria for the design of a solution</li> <li>ii. develop a range of feasible design ideas, which can be correctly interpreted by others</li> <li>iii. present the chosen design and justify its selection</li> <li>iv. develop accurate and detailed planning drawings/diagrams and outline the requirements for the creation of the chosen solution.</li> </ul>

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<b>Objective C: Creating the solution</b>		
<ul style="list-style-type: none"> <li>i. outline a plan, which considers the use of resources and time, sufficient for peers to be able to follow to create the solution</li> <li>ii. demonstrate excellent technical skills when making the solution</li> <li>iii. follow the plan to create the solution, which functions as intended</li> <li>iv. list the changes made to the chosen design and plan when making the solution.</li> </ul>	<ul style="list-style-type: none"> <li>i. construct a logical plan, which outlines the efficient use of time and resources, sufficient for peers to be able to follow to create the solution</li> <li>ii. demonstrate excellent technical skills when making the solution</li> <li>iii. follow the plan to create the solution, which functions as intended</li> <li>iv. explain changes made to the chosen design and plan when making the solution.</li> </ul>	<ul style="list-style-type: none"> <li>i. construct a logical plan, which describes the efficient use of time and resources, sufficient for peers to be able to follow to create the solution</li> <li>ii. demonstrate excellent technical skills when making the solution</li> <li>iii. follow the plan to create the solution, which functions as intended</li> <li>iv. fully justify changes made to the chosen design and plan when making the solution.</li> </ul>
<b>Objective D: Evaluating</b>		
<ul style="list-style-type: none"> <li>i. outline simple, relevant testing methods, which generate data, to measure the success of the solution</li> <li>ii. outline the success of the solution against the design specification</li> <li>iii. outline how the solution could be improved</li> <li>iv. outline the impact of the solution on the client/target audience.</li> </ul>	<ul style="list-style-type: none"> <li>i. describe detailed and relevant testing methods, which generate accurate data, to measure the success of the solution</li> <li>ii. explain the success of the solution against the design specification</li> <li>iii. describe how the solution could be improved</li> <li>iv. describe the impact of the solution on the client/target audience.</li> </ul>	<ul style="list-style-type: none"> <li>i. design detailed and relevant testing methods, which generate data, to measure the success of the solution</li> <li>ii. critically evaluate the success of the solution against the design specification</li> <li>iii. explain how the solution could be improved</li> <li>iv. explain the impact of the solution on the client/target audience.</li> </ul>