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:
Objective A: Inquiring and analysing		
i. explain and justify the need for a solution to a problem ii. state and prioritize the main points of research needed to develop a solution to the problem iii. describe the main features of an existing product that inspires a solution to the problem iv. present the main findings of relevant research.	i. explain and justify the need for a solution to a problem ii. construct a research plan, which states and prioritizes the primary and secondary research needed to develop a solution to the problem iii. analyse a group of similar products that inspire a solution to the problem iv. develop a design brief, which presents the analysis of relevant research.	i. explain and justify the need for a solution to a problem for a specified client/target audience ii. identify and prioritize the primary and secondary research needed to develop a solution to the problem iii. analyse a range of existing products that inspire a solution to the problem iv. develop a detailed design brief, which summarizes the analysis of relevant research.
Objective B: Developing ideas		
i. develop a list of success criteria for the solution ii. present feasible design ideas, which can be correctly interpreted by others iii. present the chosen design iv. create a planning drawing/diagram, which outlines the main details for making the chosen solution.	i. develop a design specification, which outlines the success criteria for the design of a solution based on the data collected ii. present a range of feasible design ideas, which can be correctly interpreted by others iii. present the chosen design and outline the reasons for its selection iv. develop accurate planning drawings/diagrams and outline requirements for the creation of the chosen solution.	i. develop a design specification, which clearly states the success criteria for the design of a solution ii. develop a range of feasible design ideas, which can be correctly interpreted by others iii. present the chosen design and justify its selection iv. develop accurate and detailed planning drawings/diagrams and outline the requirements for the creation of the chosen solution.

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:
Objective C: Creating the solution		
i. outline a plan, which considers the use of resources and time, sufficient for peers to be able to follow to create the solution ii. demonstrate excellent technical skills when making the solution iii. follow the plan to create the solution, which functions as intended iv. list the changes made to the chosen design and plan when making the solution.	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 ii. demonstrate excellent technical skills when making the solution iii. follow the plan to create the solution, which functions as intended iv. explain changes made to the chosen design and plan when making the solution.	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 ii. demonstrate excellent technical skills when making the solution iii. follow the plan to create the solution, which functions as intended iv. fully justify changes made to the chosen design and plan when making the solution.
Objective D: Evaluating		
i. outline simple, relevant testing methods, which generate data, to measure the success of the solution ii. outline the success of the solution against the design specification iii. outline how the solution could be improved iv. outline the impact of the solution on the client/ target audience.	i. describe detailed and relevant testing methods, which generate accurate data, to measure the success of the solution ii. explain the success of the solution against the design specification iii. describe how the solution could be improved iv. describe the impact of the solution on the client/target audience.	i. design detailed and relevant testing methods, which generate data, to measure the success of the solution ii. critically evaluate the success of the solution against the design specification iii. explain how the solution could be improved iv. explain the impact of the solution on the client/ target audience.