

**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.

**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.

**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.

**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.

**Design Year 1 Summative Assessment Criteria Rubric**

Level	Criteria A: Inquiring and analysing	Criteria B: Developing Ideas	Criteria C: Creating the Solution	Criteria D: Evaluating
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1-2	<ul style="list-style-type: none"> <li>i. states the need for a solution to the problem</li> <li>ii. states finding of the research.</li> </ul>	<ul style="list-style-type: none"> <li>i. states one basic success criteria for a solution</li> <li>ii. presents one design idea, which can be interpreted by others</li> <li>iii. creates an incomplete planning drawing/diagram.</li> </ul>	<ul style="list-style-type: none"> <li>i demonstrates minimal technical skills when making the solution.</li> <li>ii. creates the solution, which functions poorly and is presented in an incomplete form.</li> </ul>	<ul style="list-style-type: none"> <li>i. defines a testing method, which is used to measure the success of the solution</li> <li>ii. states the success of the solution.</li> </ul>
3-4	<ul style="list-style-type: none"> <li>i. Outlines the need for a solution to a problem</li> <li>ii. states some points of research needed to develop a solution with some guidance</li> <li>iii. states the main features of an existing product that inspires a solution to the problem.</li> <li>iv. outlines some of the main findings of research</li> </ul>	<ul style="list-style-type: none"> <li>i. states a few success criteria for a solution</li> <li>ii. presents more than one design idea, using an appropriate medium or labels key features, which can be interpreted by others.</li> <li>iii. states the key features of the chosen design</li> <li>iv. creates a planning drawing/diagram and lists the requirements for the creation of the chosen solution.</li> </ul>	<ul style="list-style-type: none"> <li>i. lists the main steps in a plan that contains some detail, resulting in peers having difficulty following the plan to create the solution.</li> <li>ii. demonstrates satisfactory technical skills when creating the solution</li> <li>iii. creates the solution, which partially functions and is adequately presented.</li> <li>iv. states one change made to the chosen design or plan when making the solution.</li> </ul>	<ul style="list-style-type: none"> <li>i. defines a relevant testing method, which generates data, to measure the success of the solution</li> <li>ii. states the success of the solution against the design specification based on the results of one relevant test</li> <li>iii. states one way in which the solution can be improved</li> <li>iv. states one way in which the design can impact the client/target audience.</li> </ul>
5-6	<ul style="list-style-type: none"> <li>i. explains the need for a solution to the problem</li> <li>ii. states and prioritizes the main points of research needed to develop a solution with some guidance</li> <li>iii. outlines the main features of an existing product that inspires a solution to the problem.</li> <li>iv. outlines the main findings of relevant research.</li> </ul>	<ul style="list-style-type: none"> <li>i. develops a few success criteria for a solution</li> <li>ii. presents a few feasible design idea, using an appropriate medium or labels key features, which can be interpreted by others.</li> <li>iii. presents the chosen design stating the key features</li> <li>iv. creates a planning drawing/diagram and lists the main details for the creation of the chosen solution.</li> </ul>	<ul style="list-style-type: none"> <li>i. lists the main steps in a plan which considers time and resources, resulting in peers being able to follow the plan to create the solution.</li> <li>ii. demonstrates competent technical skills when creating the solution</li> <li>iii. creates the solution, which functions as intended and is presented appropriately</li> <li>iv. states on change made to the chosen design and plan when making the solution.</li> </ul>	<ul style="list-style-type: none"> <li>i. defines relevant testing methods, which generates data, to measure the success of the solution</li> <li>ii. states the success of the solution against the design specification based on relevant product testing</li> <li>iii. outlines one way in which the solution can be improved</li> <li>iv. outlines the impact of the solution on the client/target audience, with guidance.</li> </ul>

7-8	<ul style="list-style-type: none"> <li>i. explains and justifies the need for a solution to the problem</li> <li>ii. states and prioritizes the main points of research needed to develop a solution with minimal guidance</li> <li>iii. describes the main features of an existing product that inspires a solution to the problem.</li> <li>iv. presents the main findings of relevant research.</li> </ul>	<ul style="list-style-type: none"> <li>i. develops a list of success criteria for a solution</li> <li>ii. presents feasible design idea, using an appropriate medium or labels key features, which can be interpreted by others.</li> <li>iii. presents the chosen design stating the key features</li> <li>iv. creates a planning drawing/diagram which outlines the main details for the making the chosen solution.</li> </ul>	<ul style="list-style-type: none"> <li>i. outlines a plan which considers time and resources, sufficient for peers being able to follow the plan to create the solution.</li> <li>ii. demonstrates excellent technical skills when creating the solution</li> <li>iii. follows the plan to create the solution, which functions as intended and is presented appropriately</li> <li>iv. lists the changes made to the chosen design and plan when making the solution.</li> </ul>	<ul style="list-style-type: none"> <li>i. outlines simple relevant testing methods, which generates data, to measure the success of the solution</li> <li>ii. states the success of the solution against the design specification based on authentic product testing</li> <li>iii. outlines how the solution can be improved</li> <li>iv. outlines the impact of the solution on the client/target audience.</li> </ul>