**Design – MYP Year 3**

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| **Level** | **Criterion A:****Inquiring and Analysing** | **Criterion B:****Developing Ideas** | **Criterion C:****Creating the Solution** | **Criterion D:****Evaluating** |
| **0** | The student does not reach a standard described by any of the descriptors below. | The student does not reach a standard described by any of the descriptors below. | The student does not reach a standard described by any of the descriptors below. | The student does not reach a standard described by any of the descriptors below. |
| **1-2** | The student: | The student: | The student: | The student: |
| i. **states** the need for a solution to a problem | i. **lists** a few basic success criterion for the design of a solution | i. **demonstrates** **minimal** technical skills when making the solution | i. **describes a** testing method, which is used to measure the success of the solution |
| ii. **states** **some of** the main findings of relevant research | ii. **presents one** design idea, which can be interpreted by others | ii. **creates** the solution, which functions **poorly** and is presented **in an incomplete form** | ii. **states** the success of the solution |
| iii. **creates** incomplete planning drawings/diagrams |
| **3-4** | The student: | The student: | The student: | The student: |
| i. **outlines** the need for a solution to a problem | i. **constructs** a list of the success criteria for the solution | i. **outlines** each step in a plan that contains some details, resulting in peers having difficulty following the plan to create the solution | i. **describes** a **relevant** testing **method**, which generates data, to measure the success of the solution |
| ii. **states** the research needed to **develop** a solution to the problem, **with some guidance** | ii. **presents a few** feasible design ideas, using an appropriate medium(s) **or** **explains** key features, which can be interpreted by others | ii. **demonstrates satisfactory** technical skills when making the solution | ii. **outlines** the success of the solution against the design specification based onrelevant producttesting |
| iii. **outlines one** **existing** product that inspires a solution to the problem | iii. **outlines** the **main** reasons for its selection with reference to the design specification | iii. **creates** the solution, which **partially** functions and is **adequately** presented | iii. **lists the ways** in which the solution could be improved |
| iv. **outlines** a **basic** design brief, which **outlines some of** the relevant research | iv. **creates** planning drawings/diagrams or **lists** requirements for the chosen solution | iv. **outlines** changes made to the chosen design **or** plan when making the solution | iv. **outlines**  the impact of the solution of the client/target audience |
| **5-6** | The student: | The student: | The student: | The student: |
| i. **explains** the need for a solution to a problem | i. **develops** design specifications, which **identify** the success criteria for the design of a solution | i. **constructs** a plan which considers time and resources, sufficient for peers to be able to follow to create the solution | i. **describes relevant** testing **methods**, which generate data, to measure the success of the solution |
| ii. **constructs** a research plan, which **states** and **prioritizes** the primary and secondary research needed to **develop** a solution to the problem, **with some guidance** | ii. **presents a range of** feasible design ideas, using an appropriate medium(s) **and** **explains** key features, which can be interpreted by others | ii. **demonstrates competent** technical skills when making the solution | ii. **describes** the success of the solution against the design specification based on **relevant** product testing |
| iii. **describes** a group of similar products that inspire a solution to the problem | iii. **presents** the chosen design and **outlines** the **main** reasons for its selection with reference to the design specification | iii. **creates** the solution, which functions **as intended** and is presented **appropriately** | iii. **outlines** how the solution could be improved |
| iv. **develops** a design brief, which **outlines** the **findings** of relevant research | iv. **develops** accurate planning drawings/diagrams and **lists** requirements for the creation of the chosen solution | iv. **outlines** changes made to the chosen design **and** plan when making the solution | iv. **describe** the impact of the solution on the client/target audience, **with guidance** |
| **7-8** | The student: | The student: | The student: | The student: |
| i. **explains** and **justifies** the need for solution to a problem | i. **develops** a design specification, which **outlines** the success criteria for the design of a solution based on the data collected | i. **constructs** a **logical** plan which **outlines** the efficient use of time and resources, sufficient for peers to be able to follow to create the solution | i. **described detailed and relevant** testing **methods**, which generates **accurate** data, to measure the success of the solution |
| ii. **constructs** a research plan, which **states** and **prioritizes** the primary and secondary research needed to **develop** a solution to the problem, **independently** | ii. **presents** a range of feasible design ideas, using an appropriate medium(s) **and annotation**, which can be interpreted by others | ii. **demonstrates excellent** technical skills when making the solution | ii. **explains** the success of the solution against the design specification based on **authentic** product testing  |
| iii. **analyzes** a group of similar products that inspire a solution to the problem | iii. **presents** the chosen designand **outlines** the reasons for its selection with reference to the design specification  | iii. follows the plan to **create** the solution, which functions as **intended** and is presented **appropriately** | iii. **describes** how the solution could be improved |
| iv. **develops** a design brief, which **presents** the **analysis** of relevant research | iv. **develops** accurate planning drawings/diagrams and **outlines** requirements for the creation of the chosen solution | iv. **explains** changes made to the chosen design and plan when making the solution | iv. **describes** the impact of the solution on the client/target audience |