

IB MYP Design Assessment Criteria ***(Digital Design, Global Connections, STEM)***

Criterion A: Inquiring and analyzing

Maximum: 8

At the end of year 1, students should be able to:

- 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 one existing product that inspires a solution to the problem
- iv. present the main findings of relevant research.

Achievement level	Level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1–2	The student: <ol style="list-style-type: none"> i. states the need for a solution to a problem ii. states the findings of research.
3–4	The student: <ol style="list-style-type: none"> i. outlines the need for a solution to a problem ii. states some points of research needed to develop a solution, with some guidance iii. states the main features of an existing product that inspires a solution to the problem iv. outlines some of the main findings of research.
5–6	The student: <ol style="list-style-type: none"> i. explains the need for a solution to a problem ii. states and prioritizes the main points of research needed to develop a solution to the problem, with some guidance iii. outlines the main features of an existing product that inspires a solution to the problem iv. outlines the main findings of relevant research.
7–8	The student: <ol style="list-style-type: none"> i. explains and justifies the need for a solution to a problem ii. states and prioritizes the main points of research needed to develop a solution to the problem, with minimal guidance iii. describes the main features of an existing product that inspires a solution to the problem iv. presents the main findings of relevant research.

Criterion B: Developing ideas

Maximum: 8

At the end of year 1, students should be able to:

- 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.

Achievement level	Level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1–2	The student: <ol style="list-style-type: none">i. states one basic success criterion for a solutionii. presents one design idea, which can be interpreted by othersiii. creates an incomplete planning drawing/diagram.
3–4	The student: <ol style="list-style-type: none">i. states a few success criteria for the solutionii. presents more than one design idea, using an appropriate medium(s) or labels key features, which can be interpreted by othersiii. states the key features of the chosen designiv. creates a planning drawing/diagram or lists requirements for the creation of the chosen solution.
5–6	The student: <ol style="list-style-type: none">i. develops a few success criteria for the solutionii. presents a few feasible design ideas, using an appropriate medium(s) and labels key features, which can be interpreted by othersiii. presents the chosen design stating the key featuresiv. creates a planning drawing/diagram and lists the main details for the creation of the chosen solution.
7–8	The student: <ol style="list-style-type: none">i. develops a list of success criteria for the solutionii. presents feasible design ideas, using an appropriate medium(s) and outlines the key features, which can be correctly interpreted by othersiii. presents the chosen design describing the key featuresiv. creates a planning drawing/diagram, which outlines the main details for making the chosen solution.

Criterion C: Creating the solution

Maximum: 8

At the end of year 1, students should be able to:

- 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
- v. present the solution as a whole.

Achievement level	Level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1–2	The student: <ol style="list-style-type: none">i. demonstrates minimal technical skills when making the solutionii. creates the solution, which functions poorly and is presented in an incomplete form.
3–4	The student: <ol style="list-style-type: none">i. lists the main steps in a plan that contains some details, resulting in peers having difficulty following the plan to create the solutionii. demonstrates satisfactory technical skills when making the solutioniii. creates the solution, which partially functions and is adequately presentediv. states one change made to the chosen design or plan when making the solution.
5–6	The student: <ol style="list-style-type: none">i. lists the steps in a plan, which considers time and resources, resulting in peers being able to follow the plan to create the solutionii. demonstrates competent technical skills when making the solutioniii. creates the solution, which functions as intended and is presented appropriatelyiv. states one change made to the chosen design and plan when making the solution.
7–8	The student: <ol style="list-style-type: none">i. outlines a plan, which considers the use of resources and time, sufficient for peers to be able to follow to create the solutionii. demonstrates excellent technical skills when making the solutioniii. follows the plan to create the solution, which functions as intended and is presented appropriatelyiv. lists the changes made to the chosen design and plan when making the solution.

Criterion D: Evaluating

Maximum: 8

At the end of year 1, students should be able to:

- 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.

Achievement level	Level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1–2	The student: <ol style="list-style-type: none">i. defines a testing method, which is used to measure the success of the solutionii. states the success of the solution.
3–4	The student: <ol style="list-style-type: none">i. defines a relevant testing method, which generates data, to measure the success of the solutionii. states the success of the solution against the design specification based on the results of one relevant testiii. states one way in which the solution could be improvediv. states one way in which the solution can impact the client/target audience.
5–6	The student: <ol style="list-style-type: none">i. defines relevant testing methods, which generate data, to measure the success of the solutionii. states the success of the solution against the design specification based on relevant product testingiii. outlines one way in which the solution could be improvediv. outlines the impact of the solution on the client/target audience, with guidance.
7–8	The student: <ol style="list-style-type: none">i. outlines simple, relevant testing methods, which generate data, to measure the success of the solutionii. outlines the success of the solution against the design specification based on authentic product testingiii. outlines how the solution could be improvediv. outlines the impact of the solution on the client/target audience.