



Criterion A: Inquiring and analyzing

Achievement level	Grade 6 (MYP 1)	Grade 7 (MYP 2)	Grade 8 (MYP 3)	Grade 9 (MYP 4)	Grade 10 (MYP 5)
	Level descriptor	Level descriptor		Level descriptor	
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.	
1-2	The student: i) states the need for a solution to a problem ii) states the findings of research	The student: i) states the need for a solution to a problem ii) states some of the main findings of relevant research		The student: i) states the need for a solution to a problem for a specified client/target audience ii) develops a basic design brief, which states the findings of relevant research	
3-4	The student: 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	The student: i) outlines the need for a solution to a problem ii) states the research needed to develop a solution to the problem, with some guidance iii) outlines one existing product that inspires a solution to the problem iv) develops a basic design brief, which outlines some relevant research		The student: i) outlines the need for a solution to a problem for a specified client/target audience ii) outlines a research plan, which identifies the primary and secondary research needed to develop a solution to the problem independently, with some guidance iii) analyses one existing product that inspires a solution to the problem iv) develops a design brief, which outlines the analysis of relevant research	
5-6	The student: i) explains the need for a solution to a problem ii) states and prioritizes the main points of research needed to develop a solution, 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	The student: i) explains the need for a solution to a problem 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 iii) describes a group of similar products that inspire a solution to the problem iv) develops a design brief, which outlines the findings of relevant research		The student: i) explains the need for a solution to a problem for a specified client/target audience ii) constructs a research plan, which identifies and prioritizes the primary and secondary research needed to develop a solution to the problem independently, with some guidance iii) analyses a range of existing products that inspire a solution to the problem iv) develops a design brief, which explains the analysis of relevant research	
7-8	The student: 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, 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	The student: i) explains and justifies the need for a solution to a problem ii) constructs a research plan, which states and prioritizes the primary and secondary research needed to develop a solution to the problem independently iii) analyses a group of similar products that inspire a solution to the problem iv) develops a design brief, which presents the analysis of relevant research		The student: i) explains and justifies the need for a solution to a problem for a client/target audience ii) constructs a detailed research plan, which identifies and prioritizes the primary and secondary research needed to develop a solution to the problem independently iii) analyses a range of existing products that inspire a solution to the problem in detail iv) develops a detailed design brief, which summarizes the analysis of relevant research	



Criterion B: Developing ideas

Achievement level	Grade 6 (MYP 1)	Grade 7 (MYP 2)	Grade 8 (MYP 3)	Grade 9 (MYP 4)	Grade 10 (MYP 5)
	Level descriptor	Level descriptor			Level descriptor
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.
1-2	The student: i) states one basic success criteria for a solution ii) presents one design idea, which can be interpreted by others iii) creates an incomplete planning drawing/diagram	The student: i) lists a few basic success criteria for the design of a solution ii) presents one design idea, which can be interpreted by others iii) creates incomplete planning drawings/ diagrams			The student: i) lists some basic design specifications for the design of a solution ii) presents one design which can be interpreted by others iii) creates incomplete planning drawings/ diagrams
3-4	The student: i) states a few success criteria for the solution ii) presents more than one design idea, using an appropriate medium(s) or labels key features, which can be interpreted by others iii) states the key features of the chosen design iv) creates a planning drawing/diagram or lists requirements for the creation of the chosen solution	The student: i) constructs a list of the success criteria for the design of a solution ii) presents a few of feasible design ideas, using an appropriate medium(s) or explains key features, which can be interpreted by others iii) outlines the main reasons for choosing the design with reference to the design specification iv) creates planning drawings/diagrams or lists requirements for the chosen solution			The student: i) lists some design specifications, which relate to the success criteria for the design of a solution ii) presents a few feasible design ideas, using an appropriate medium(s) or annotation, which can be interpreted by others iii) justifies the selection of the chosen design with reference to the design specification iv) creates planning drawings/diagrams or lists requirements
5-6	The student: i) develops a few success criteria for the solution ii) presents a few feasible design ideas, using an appropriate medium(s) and labels key features, which can be interpreted by others iii) presents the chosen design stating the key features iv) creates a planning drawing/diagram and lists the main details for the creation of the chosen solution	The student: i) develops design specifications which identify the success criteria for the design of a solution ii) presents a range of feasible design ideas, using an appropriate medium(s) and explains key features, which can be interpreted by others iii) presents the chosen design and outlines the main reasons for its selection with reference to the design specification iv) develops accurate planning drawings/ diagrams and lists requirements for the creation of the chosen solution			The student: i) develops design specifications, which outline the success criteria for the design of a solution ii) develops a range of feasible design ideas, using an appropriate medium(s) and annotation, which can be interpreted by others iii) presents the chosen design and justifies its selection with reference to the design specification iv) develops accurate planning drawings/diagrams and lists requirements
7-8	The student: i) develops a list of success criteria for the solution ii) presents feasible design ideas, using an appropriate medium(s) and outlines the key features, which can be correctly interpreted by others iii) presents the chosen design describing the key features iv) creates a planning drawing/diagram, which outlines the main details for making the chosen solution	The student: i) develops a design specification which outlines the success criteria for the design of a solution based on the data collected ii) presents a range of feasible design ideas, using an appropriate medium(s) and annotation , which can be correctly interpreted by others iii) presents the chosen design and outlines the reasons for its selection with reference to the design specification iv) develops accurate planning drawings/ diagrams and outlines requirements for the creation of the chosen solution			The student: i) develops detailed design specifications, which explain the success criteria for the design of a solution based on the analysis of the research ii) develops a range of feasible design ideas, using an appropriate medium(s) and detailed annotation, which can be correctly interpreted by others iii) presents the chosen design and justifies fully and critically its selection with detailed reference to the design specification iv) develops accurate and detailed planning drawings/diagrams and outlines requirements



Criterion C: Creating the solution

Achievement level	Grade 6 (MYP 1)	Grade 7 (MYP 2)	Grade 8 (MYP 3)	Grade 9 (MYP 4)	Grade 10 (MYP 5)
	Level descriptor	Level descriptor		Level descriptor	
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.	
1-2	The student: i) demonstrates minimal technical skills when making the solution ii) creates the solution, which functions poorly and is presented in an incomplete form	The student: i) demonstrates minimal technical skills when making the solution ii) creates the solution, which functions poorly and is presented in an incomplete form		The student: i) demonstrates minimal technical skills when making the solution ii) creates the solution, which functions poorly and is presented in an incomplete form	
3-4	The student: i) lists the main steps in a plan, which contains some details , resulting in peers having difficulty following the plan to create the solution ii) demonstrates satisfactory technical skills when making the solution iii) creates the solution, which partially functions and is presented appropriately iv) states one change made to the chosen design or plan when making the solution	The student: i) outlines each step in a plan that contains some details , resulting in peers having difficulty following the plan to create the solution ii) demonstrates satisfactory technical skills when making the solution iii) creates the solution, which partially functions and is adequately presented iv) outlines changes made to the chosen design or plan when making the solution		The student: i) constructs a plan , which contains some production elements , resulting in peers having difficulty following plan ii) demonstrates satisfactory technical skills when making the solution iii) creates the solution, which partially functions and is adequately presented iv) outlines changes made to the chosen design and plan when making the solution	
5-6	The student: i) lists the steps in a plan, which considers the time and resources , resulting in peers to be able to follow to create the solution ii) demonstrates competent technical skills when making the solution iii) creates the solution, which functions as intended and is presented appropriately iv) states one change made to the chosen design and plan when making the solution	The student: i) constructs a plan, which considers time and resources , sufficient for peers to be able to follow to create the solution ii) demonstrates competent technical skills when making the solution iii) creates the solution, which functions as intended and is presented appropriately iv) outlines changes made to the chosen design and plan when making the solution		The student: i) constructs a logical plan , which considers time and resources , sufficient for peers to be able to follow to create the solution ii) demonstrates competent technical skills when making the solution iii) creates the solution, which functions as intended and is presented appropriately iv) describes changes made to the chosen design and plan when making the solution	
7-8	The student: i) outlines a plan, which considers the use of time and resources , sufficient for peers to be able to follow to create the solution ii) demonstrates excellent technical skills when making the solution iii) follows the plan to create the solution, which functions as intended and is presented appropriately iv) lists the changes made to the chosen design and plan when making the solution	The student: 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 ii) demonstrates excellent technical skills when making the solution iii) follows the plan to create the solution, which functions as intended and is presented appropriately iv) explains changes made to the chosen design and plan when making the solution		The student: i) constructs a detailed and logical plan , which describes the efficient use of time and resources , sufficient for peers to be able to follow to create the solution ii) demonstrates excellent technical skills when making the solution iii) follows the plan to create the solution, which functions as intended and is presented appropriately iv) fully justifies changes made to the chosen design and plan when making the solution	



Criterion D: Evaluating

Achievement level	Grade 6 (MYP 1)	Grade 7 (MYP 2)	Grade 8 (MYP 3)	Grade 9 (MYP 4)	Grade 10 (MYP 5)
	Level descriptor	Level descriptor			Level descriptor
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.
1-2	The student: i) defines a testing method , which is used to measure the success of the solution ii) states the success of the solution	The student: i) describes a testing method , which is used to measure the success of the solution ii) states the success of the solution			The student: i) designs a testing method , which is used to measure the success of the solution ii) states the success of the solution
3-4	The student: i) defines a relevant testing method, which generate data , to measure the success of the solution ii) states the success of the solution against the design specification based on the results of one relevant test iii) states one way in which the solution could be improved iv) states one way in which the solution can impact the client/target audience	The student: i) describes a relevant testing method , which generates data, to measure the success of the solution ii) outlines the success of the solution against the design specification based on relevant product testing iii) lists the ways in which the solution could be improved iv) outlines the impact of the solution on the client/target audience			The student: i) designs a relevant testing method, which generates data , to measure the success of the solution ii) outlines the success of the solution against the design specification based on relevant product testing iii) outlines how the solution could be improved iv) outlines the impact of the solution on the client/target audience
5-6	The student: i) defines relevant testing methods, which generate data , to measure the success of the solution ii) states the success of the solution against the design specification based on relevant product testing iii) outlines one way how the solution could be improved iv) outlines the impact of the solution on the client/target audience, with guidance	The student: i) describes relevant testing methods , which generate data, to measure the success of the solution ii) describes the success of the solution against the design specification based on relevant product testing iii) outlines how the solution could be improved iv) describes the impact of the solution on the client/target audience, with guidance			The student: i) designs relevant testing methods, which generate data , to measure the success of the solution ii) explains the success of the solution against the design specification based on relevant product testing iii) describes how the solution could be improved iv) explains the impact of the solution on the client/target audience, with guidance
7-8	The student: i) outlines simple, relevant testing methods, which generate data , to measure the success of the solution ii) outlines the success of the solution against the design specification based on authentic product testing iii) outlines how the solution could be improved iv) outlines the impact of the solution on the client/target audience	The student: i) describes detailed and relevant testing methods , which generate accurate data, to measure the success of the solution ii) explains the success of the solution against the design specification based on authentic product testing iii) describes how the solution could be improved iv) describes the impact of the solution on the client/target audience			The student: i) designs detailed and relevant testing methods, which generate data , to measure the success of the solution ii) critically evaluates the success of the solution against the design specification based on authentic product testing iii) explains how the solution could be improved iv) explains the impact of the solution on the client/target audience