

Design

Criterion A: Inquiring and analyzing

Achievement levels	Descriptors		
	MYP 1	MYP 2-3	MYP 4-5
7-8	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> explains and justifies the need for a solution to a problem <input type="checkbox"/> states and prioritizes the main points of research needed to develop a solution, with minimal guidance <input type="checkbox"/> describes the main features of an existing product that inspires a solution to the problem <input type="checkbox"/> presents the main findings of relevant research 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> explains and justifies the need for a solution to a problem <input type="checkbox"/> constructs a research plan, which states and prioritizes the primary and secondary research needed to develop a solution to the problem independently <input type="checkbox"/> analyzes a group of similar products that inspire a solution to the problem <input type="checkbox"/> develops a design brief, which presents the analysis of relevant research 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> explains and justifies the need for a solution to a problem for a client/target audience <input type="checkbox"/> constructs a detailed research plan, which identifies and prioritizes the primary and secondary research needed to develop a solution to the problem independently <input type="checkbox"/> analyzes a range of existing products that inspire a solution to the problem in detail <input type="checkbox"/> develops a detailed design brief, which summarizes the analysis of relevant research
5-6	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> explains the need for a solution to a problem <input type="checkbox"/> states and prioritizes the main points of research needed to develop a solution, with some guidance <input type="checkbox"/> outlines the main features of an existing product that inspires a solution to the problem <input type="checkbox"/> outlines the main findings of relevant research 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> explains the need for a solution to a problem <input type="checkbox"/> constructs a research plan, which states and prioritizes the primary and secondary research needed to develop a solution to the problem, with some guidance <input type="checkbox"/> describes a group of similar products that inspire a solution to the problem <input type="checkbox"/> develops a design brief, which outlines the findings of relevant research 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> explains the need for a solution to a problem for a specified client/target audience <input type="checkbox"/> 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 <input type="checkbox"/> analyzes a range of existing products that inspire a solution to the problem <input type="checkbox"/> develops a design brief, which explains the analysis of relevant research
3-4	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> outlines the need for a solution to a problem <input type="checkbox"/> states some points of research needed to develop a solution, with some guidance 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> outlines the need for a solution to a problem <input type="checkbox"/> states the research needed to develop a solution to the problem, with some guidance 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> outlines the need for a solution to a problem for a specified client/target audience <input type="checkbox"/> outlines a research plan, which identifies the primary and secondary research needed to develop a solution to the problem independently, with some guidance

	<ul style="list-style-type: none"> <input type="checkbox"/> states the main features of an existing product that inspires a solution to the problem <input type="checkbox"/> outlines some of the main findings of research 	<ul style="list-style-type: none"> <input type="checkbox"/> outlines one existing product that inspires a solution to the problem <input type="checkbox"/> develops a basic design brief, which outlines some relevant research 	<ul style="list-style-type: none"> <input type="checkbox"/> analyzes one existing product that inspires a solution to the problem <input type="checkbox"/> develops a design brief, which outlines the analysis of relevant research
1-2	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> states the need for a solution to a problem <input type="checkbox"/> states the findings of research 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> states the need for a solution to a problem <input type="checkbox"/> states some of the main findings of relevant research 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> states the need for a solution to a problem for a specified client/target audience <input type="checkbox"/> develops a basic design brief, which states the findings of relevant research
0	The student's work does not reach a standard described by any of the descriptors above.		

Criterion B: Developing ideas

Achievement levels	Descriptors		
	MYP 1	MYP 2-3	MYP 4-5
7-8	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> develops a list of success criteria for the solution <input type="checkbox"/> presents feasible design ideas, using an appropriate medium(s) and outlines the key features, which can be correctly interpreted by others <input type="checkbox"/> presents the chosen design describing the key features <input type="checkbox"/> creates a planning drawing/diagram, which outlines the main details for making the chosen solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> develops a design specification which outlines the success criteria for the design of a solution based on the data collected <input type="checkbox"/> presents a range of feasible design ideas, using an appropriate medium(s) and annotation, which can be correctly interpreted by others <input type="checkbox"/> presents the chosen design and outlines the reasons for its selection with reference to the design specification <input type="checkbox"/> develops accurate planning drawings/diagrams and outlines requirements for the creation of the chosen solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> develops detailed design specifications, which explain the success criteria for the design of a solution based on the analysis of the research <input type="checkbox"/> develops a range of feasible design ideas, using an appropriate medium(s) and detailed annotation, which can be correctly interpreted by others <input type="checkbox"/> presents the chosen design and justifies fully and critically its selection with detailed reference to the design specification <input type="checkbox"/> develops accurate and detailed planning drawings/diagrams and outlines requirements
5-6	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> develops a few success criteria for the solution <input type="checkbox"/> presents a few feasible design ideas, using an appropriate medium(s) and labels key features, which can be interpreted by others <input type="checkbox"/> presents the chosen design stating the key features <input type="checkbox"/> creates a planning drawing/diagram and lists the main details for the creation of the chosen solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> develops design specifications which identify the success criteria for the design of a solution <input type="checkbox"/> presents a range of feasible design ideas, using an appropriate medium(s) and explains key features, which can be interpreted by others <input type="checkbox"/> presents the chosen design and outlines the main reasons for its selection with reference to the design specification <input type="checkbox"/> develops accurate planning drawings/diagrams and lists requirements for the creation of the chosen solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> develops design specifications, which outline the success criteria for the design of a solution <input type="checkbox"/> develops a range of feasible design ideas, using an appropriate medium(s) and annotation, which can be interpreted by others <input type="checkbox"/> presents the chosen design and justifies its selection with reference to the design specification <input type="checkbox"/> develops accurate planning drawings/diagrams and lists requirements
3-4	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> states a few success criteria for the solution <input type="checkbox"/> presents more than one design idea, using an appropriate medium(s) or labels key features, which can be interpreted by others 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> constructs a list of the success criteria for the design of a solution <input type="checkbox"/> presents a few of feasible design ideas, using an appropriate medium(s) or explains key features, which can be interpreted by others 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> lists some design specifications, which relate to the success criteria for the design of a solution <input type="checkbox"/> presents a few feasible design ideas, using an appropriate medium(s) or annotation, which can be interpreted by others

	<ul style="list-style-type: none"> <input type="checkbox"/> states the key features of the chosen design <input type="checkbox"/> creates a planning drawing/diagram or lists requirements for the creation of the chosen solution 	<ul style="list-style-type: none"> <input type="checkbox"/> outlines the main reasons for choosing the design with reference to the design specification <input type="checkbox"/> creates planning drawings/diagrams or lists requirements for the chosen solution 	<ul style="list-style-type: none"> <input type="checkbox"/> justifies the selection of the chosen design with reference to the design specification <input type="checkbox"/> creates planning drawings/diagrams or lists requirements
1-2	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> states one basic success criteria for a solution <input type="checkbox"/> presents one design idea, which can be interpreted by others <input type="checkbox"/> creates an incomplete planning drawing/diagram 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> lists a few basic success criteria for the design of a solution <input type="checkbox"/> presents one design idea, which can be interpreted by others <input type="checkbox"/> creates incomplete planning drawings/diagrams 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> lists some basic design specifications for the design of a solution <input type="checkbox"/> presents one design which can be interpreted by others <input type="checkbox"/> creates incomplete planning drawings/diagrams
0	The student's work does not reach a standard described by any of the descriptors above.		

Criterion C: Creating the solution

Achievement levels	Descriptors		
	MYP 1	MYP 2-3	MYP 4-5
7-8	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> outlines a plan, which considers the use of time and resources, sufficient for peers to be able to follow to create the solution <input type="checkbox"/> demonstrates excellent technical skills when making the solution <input type="checkbox"/> follows the plan to create the solution, which functions as intended and is presented appropriately <input type="checkbox"/> lists the changes made to the chosen design and plan when making the solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 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 <input type="checkbox"/> demonstrates excellent technical skills when making the solution <input type="checkbox"/> follows the plan to create the solution, which functions as intended and is presented appropriately <input type="checkbox"/> explains changes made to the chosen design and plan when making the solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 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 <input type="checkbox"/> demonstrates excellent technical skills when making the solution <input type="checkbox"/> the solution, which functions as intended and is presented appropriately <input type="checkbox"/> fully justifies changes made to the chosen design and plan when making the solution
5-6	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> lists the steps in a plan, which considers the time and resources, resulting in peers to be able to follow to create the solution <input type="checkbox"/> demonstrates competent technical skills when making the solution <input type="checkbox"/> creates the solution, which functions as intended and is presented appropriately <input type="checkbox"/> states one change made to the chosen design and plan when making the solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> constructs a plan, which considers time and resources, sufficient for peers to be able to follow to create the solution <input type="checkbox"/> demonstrates competent technical skills when making the solution <input type="checkbox"/> creates the solution, which functions as intended and is presented appropriately <input type="checkbox"/> outlines changes made to the chosen design and plan when making the solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> constructs a logical plan, which considers time and resources, sufficient for peers to be able to follow to create the solution <input type="checkbox"/> demonstrates competent technical skills when making the solution <input type="checkbox"/> creates the solution, which functions as intended and is presented appropriately <input type="checkbox"/> describes changes made to the chosen design and plan when making the solution
3-4	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> lists the main steps in a plan, which contains some details, resulting in peers having difficulty following the plan to create the solution <input type="checkbox"/> demonstrates satisfactory technical skills when making the solution <input type="checkbox"/> creates the solution, which partially functions and is presented appropriately <input type="checkbox"/> states one change made to the chosen design or plan when making the solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> outlines each step in a plan that contains some details, resulting in peers having difficulty following the plan to create the solution <input type="checkbox"/> demonstrates satisfactory technical skills when making the solution <input type="checkbox"/> creates the solution, which partially functions and is adequately presented <input type="checkbox"/> outlines changes made to the chosen design or plan when making the solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> constructs a plan, which contains some production elements, resulting in peers having difficulty following plan <input type="checkbox"/> demonstrates satisfactory technical skills when making the solution <input type="checkbox"/> creates the solution, which partially functions and is adequately presented <input type="checkbox"/> outlines changes made to the chosen design and plan when making the solution
1-2	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> demonstrates minimal technical skills when making the solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> demonstrates minimal technical skills when making the solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> demonstrates minimal technical skills when making the solution

	<input type="checkbox"/> creates the solution, which functions poorly and is presented in an incomplete form	<input type="checkbox"/> creates the solution, which functions poorly and is presented in an incomplete form	<input type="checkbox"/> creates the solution, which functions poorly and is presented in an incomplete form
0	The student's work does not reach a standard described by any of the descriptors above.		

Criterion D: Evaluating

Achievement levels	Descriptors		
	MYP 1	MYP 2-3	MYP 4-5
7-8	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> outlines simple, relevant testing methods, which generate data, to measure the success of the solution <input type="checkbox"/> outlines the success of the solution against the design specification based on authentic product testing <input type="checkbox"/> outlines how the solution could be improved <input type="checkbox"/> outlines the impact of the solution on the client/target audience 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> describes detailed and relevant testing methods, which generate accurate data, to measure the success of the solution <input type="checkbox"/> explains the success of the solution against the design specification based on authentic product testing <input type="checkbox"/> describes how the solution could be improved <input type="checkbox"/> describes the impact of the solution on the client/target audience 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> designs detailed and relevant testing methods, which generate data, to measure the success of the solution <input type="checkbox"/> critically evaluates the success of the solution against the design specification based on authentic product testing <input type="checkbox"/> explains how the solution could be improved <input type="checkbox"/> explains the impact of the solution on the client/target audience
5-6	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> defines relevant testing methods, which generate data, to measure the success of the solution <input type="checkbox"/> states the success of the solution against the design specification based on relevant product testing <input type="checkbox"/> outlines one way how the solution could be improved <input type="checkbox"/> outlines the impact of the solution on the client/target audience, with guidance 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> describes relevant testing methods, which generate data, to measure the success of the solution <input type="checkbox"/> describes the success of the solution against the design specification based on relevant product testing <input type="checkbox"/> outlines how the solution could be improved <input type="checkbox"/> describes the impact of the solution on the client/target audience, with guidance 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> designs relevant testing methods, which generate data, to measure the success of the solution <input type="checkbox"/> explains the success of the solution against the design specification based on relevant product testing <input type="checkbox"/> describes how the solution could be improved <input type="checkbox"/> explains the impact of the solution on the client/target audience, with guidance
3-4	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> defines a relevant testing method, which generate data, to measure the success of the solution <input type="checkbox"/> states the success of the solution against the design specification based on the results of one relevant test <input type="checkbox"/> states one way in which the solution could be improved <input type="checkbox"/> states one way in which the solution can impact the client/target audience 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> describes a relevant testing method, which generates data, to measure the success of the solution <input type="checkbox"/> outlines the success of the solution against the design specification based on relevant product testing <input type="checkbox"/> lists the ways in which the solution could be improved <input type="checkbox"/> outlines the impact of the solution on the client/target audience 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> designs a relevant testing method, which generates data, to measure the success of the solution <input type="checkbox"/> outlines the success of the solution against the design specification based on relevant product testing <input type="checkbox"/> outlines how the solution could be improved <input type="checkbox"/> outlines the impact of the solution on the client/target audience
1-2	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> defines a testing method, which is used to measure the success of the solution <input type="checkbox"/> states the success of the solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> describes a testing method, which is used to measure the success of the solution <input type="checkbox"/> states the success of the solution 	<p>The student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> designs a testing method, which is used to measure the success of the solution <input type="checkbox"/> states the success of the solution

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The student's work does not reach a standard described by any of the descriptors above.