

Techno Teachers Association DCG Student Assignment Checklist 2011

Part	Mark	Output	Description	Suggested No. of Pages	Tick
Part A	50 Marks	1	Design Research Examine the brief Graphically under the following areas; <ul style="list-style-type: none"> Physical form; <i>general sizes and shapes</i> Physical features; <i>buttons, features that involve the user, materials etc</i> Additional Features; <i>as per brief, shape, speakers etc.</i> Timeline required only at Ordinary Level Are images referenced Do I show a good understanding of what the object does 	1-3	<input type="checkbox"/>
		2	Compare and Contrast <ul style="list-style-type: none"> Design features of 2 existing objects using images, primary research and sketches Physical form Physical features Main Dimensions Ergonomics and how its used Have I looked at what is similar and what is different 	1-3	<input type="checkbox"/>
		3	Freehand Graphical Representation <ul style="list-style-type: none"> Select one of the artefacts from previous output Must include rendered freehand sketch / sketches of the artefact, Show off the main design features Must be presentation quality Must have a 3D sketch Must submit the original sketches Cannot be scanned or traced 	1	<input type="checkbox"/>
	50 Marks (H.L) 60 Marks (O.L)	4	Solidworks Model of Artefact <u>on CD</u> <ul style="list-style-type: none"> Correct file Structure and files saved to correct location Part files; (3 at Ordinary Level, 5 at Higher level) <i>Sketches Defined, Features of part files renamed</i> <i>An assembly file; Open without errors, Assembly file with suitable mating of components)</i> A Drawing File An E-Drawing of the Assembly File Model parts efficiently; <i>(economy of design, design intent)</i> Exam Number to be written on CD with permanent marker when available No labels to be attached to CD 	Solidworks on CD	<input type="checkbox"/>
		5	CAD Drawings <ul style="list-style-type: none"> Orthographic Views Rendered Pictorial Exploded view of assembly Presentation; <i>Any other relevant views, Dimensions, Annotations Suitable scale, Borders, Tables Etc.</i> 	1-4	<input type="checkbox"/>
		6	Photorealistic Representation <ul style="list-style-type: none"> Collage of photorealistic images of the artefact; <i>(Photoview 360 or Photoworks)</i> Approx 4 images Presentation of artefact must be neat 	1	<input type="checkbox"/>

Part	Mark	Output	Description	Suggested No. of Pages	Tick	
Part B	60 Marks (H.L) 50 Marks (O.L)	7	Graphical Exploration of Design Solutions <ul style="list-style-type: none"> Chose a modification to the artefact you have modelled <u>or</u> a new concept design Must be Graphical Must look at the following areas; aesthetics, functionality and environmental sustainability Include Sketches and images (<i>referenced</i>) Must look at the reasoning for the idea and justify it 	2-4	<input type="checkbox"/>	
			<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"> Modification <ul style="list-style-type: none"> Research the problem Development of modification Show why it is needed and how it will interact with the existing artefact </td> <td style="width: 50%;"> Concept <ul style="list-style-type: none"> Show where the inspiration came from Development of concept idea Show the story of the concept, i.e. the start point, the way it developed and the final concept </td> </tr> </table>			Modification <ul style="list-style-type: none"> Research the problem Development of modification Show why it is needed and how it will interact with the existing artefact
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8	Presentation of Modification/ Concept Design Similar to Output 3 <ul style="list-style-type: none"> Sketches of Modification or Concept Design Must include rendered freehand sketch / sketches of the artefact Show off the Modification or the Concept Design Must be presentation quality Must have a 3D sketch Must submit the original sketches (<i>cannot be scanned or traced</i>) 	1	<input type="checkbox"/>			
9	Contains 2 Sections similar to Outputs 4 and 5 <ul style="list-style-type: none"> Solidworks Modelling Element Producing CAD Drawings Focus on showing and presenting the modification or the concept	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"> Cad Model of Concept or Modification <u>on CD</u> <ul style="list-style-type: none"> Part, assembly and drawing files E- Drawing of Concept or Modification Files Saved to Correct Location as per File Structure. </td> <td style="width: 50%;"> Drawings <ul style="list-style-type: none"> Orthographic Views Rendered Pictorial Photorealistic Presentation of Chosen Design (not Required at Ordinary Level) Presentation; <i>Any other relevant views, Dimensions, Annotations, Suitable scale, Borders, Tables Etc.</i> </td> </tr> </table>	Cad Model of Concept or Modification <u>on CD</u> <ul style="list-style-type: none"> Part, assembly and drawing files E- Drawing of Concept or Modification Files Saved to Correct Location as per File Structure. 	Drawings <ul style="list-style-type: none"> Orthographic Views Rendered Pictorial Photorealistic Presentation of Chosen Design (not Required at Ordinary Level) Presentation; <i>Any other relevant views, Dimensions, Annotations, Suitable scale, Borders, Tables Etc.</i> 	1-4 <i>Solidworks on CD</i>	<input type="checkbox"/>
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	Checklist	Tick		Checklist	Tick
1	Have I completed every output?	<input type="checkbox"/>	7	Have I used the correct file structure?	<input type="checkbox"/>
2	Have I written my Exam Number on the Cover of Assignment and CD when Available? Have I put my Name and Date of Birth on every page of the assignment	<input type="checkbox"/>	8	Does the CD when opened read as DCG_SA_2011_Student Name_Date of Birth Eg. DCG_SA_2011_JohnSmith_04-07-1994	<input type="checkbox"/>
3	Have I no more than 14 pages (Higher Level) 12 Pages (Ordinary Level) Excluding cover and reference page	<input type="checkbox"/>	9	Does the CD open to Folders <ul style="list-style-type: none"> Portfolio in Electronic Format (Scanned Assignment) Solidworks (Part A and Part B) 	<input type="checkbox"/>
4	Have I created a PDF copy of the assignment? (Scanned Assignment)	<input type="checkbox"/>	10	Is the Assignment bound firmly?	<input type="checkbox"/>
5	Have I made 2 copies of the CD with my exam number on both? (1 for the Assignment, second to remain in the school)	<input type="checkbox"/>	11	Have I put the CD in a CD envelope attached to the inside cover closest to the binding (No Hard Plastic Cases)	<input type="checkbox"/>
6	Have I checked that the CD opens as it should (use a machine not connected to network)	<input type="checkbox"/>	12	Have made sure that the examiner will be able to remove the CD easily?	<input type="checkbox"/>