



TASASSESSMENT TASK NOTIFICATION YEAR 8 TECHNOLOGY MANDATORY

2019

Task Number:	1
Topic/s:	Graphics Technology
Weightings:	100% (Portfolio 30%, Project 70%)
Due Date:	28 th November 2019
Time:	In class
Venue:	J39

Outcomes to be Assessed:

- 4.2.2 selects, analyses, presents and applies research and experimentation from a variety of sources
- 4.3.1 applies a broad range of contemporary and appropriate tools, materials and techniques with competence in the development of design projects
- 4.3.2 demonstrates responsible and safe use of a range of tools, materials and techniques in each design project
- 4.5.1 applies management processes to successfully complete design projects
- 4.5.2 produces quality solutions that respond to identified needs and opportunities in each design project
- 4.2.1 Generates and communicates creative design ideas and solutions - using sketching and drawing
- 4.1.2 Describes factors influencing design in the areas of study of Built Environments, Products and Information and Communication

Task: HI and IC
Details: Project to be completed in class and Portfolio will be hand in.

Electronic Submission of Task:
Yes

Format of Electronic Submission:
Google Classroom
Specific Instructions can be found on the back of the cover sheet

Please Note:

1. The College policy regarding malpractice, including cheating and plagiarism, late submission and absenteeism will apply. Please refer to moodle.pmaclism.catholic.edu.au (Assessment Tasks – Rules and Procedures). Stage 6 students should also refer to their *2019 Assessment Handbooks*.
2. Email is NOT an accepted form of assessment task submission.
3. If you are going to be away for any reason, including school based activities, you must fill in a “Planned Absence Notification” form and submit to the Assistant Principal Curriculum or the Leader of Curriculum. This form can be found at <http://moodle.pmaclism.catholic.edu.au/mod/page/view.php?id=17637>.

Electronic Submission Specifications:

STEP 1: Save Inventor iPod docking speaker design as a PDF file

- Export as a PDF in Inventor
- Save to USB eg. 'Final iPod dock design, name and class'

STEP 2: Upload Inventor iPod dock to Google Classroom

- Open Google Classroom app and login
- Select your class eg. 8 Graphics 7
- Select Inventor: iPod Docking Speaker Assessment
- Upload your Inventor iPod docking speaker as a PDF to the student upload portal
- Select submit

STEP 1: Save PowerPoint digital design portfolio as a PDF file

- Open your PowerPoint app on your iPad
- Open your iPod Docking Speaker portfolio presentation
- Select File > Export > PDF

STEP 2: Upload digital design portfolio to Google Classroom

- Open Google Classroom app and login
- Select your class eg. 8 Graphics 7
- Select Portfolio: iPod Docking Speaker Assessment
- Upload your PowerPoint digital design portfolio as a PDF to the student upload portal
- Select submit

Technology Mandatory-Graphics

Design Statement: The building industry is booming with many people deciding to build their own new home rather than buy an existing house. A number of contractors work together to build a home, such as carpenters, plumbers, electricians etc., and they require a detailed floor plan to work from. A floor plan is an overhead drawing of the house, with specific details such as dimensions and will also indicate rooms, all the doors and windows and any in-built elements such as plumbing fixtures and cabinets. More recently, a desire for modern technology within the house has seen the introduction of media playing gadgets and other forms of technology placed within the floor plan.

Design Brief: Design and create your own dream bedroom and a modern docking system to play media
This package is to include:

- a working floor plan of your dream room including symbols showing doors and windows
- a Computer Aided Drawing (CAD) of a docking system showing all sizes, dimensions and render. The docking system should include 2 visible speakers, display screen, buttons for functionality and a range of techniques in inventor software.

You will be required to complete a digital portfolio on PowerPoint to support your work.



Portfolio Outline: As part of good design you will need to create a portfolio to support your product. Your portfolio will be created in PowerPoint using your IPAD. Each slide should have a heading and the relevant information.

SLIDE	HEADING	INFORMATION	Checklist
1	Title Page	It must include the headings, unit title and design portfolio. It must also indicate your name, your class, your teacher and at least one relevant image.	
2	Design Brief	Copy the design brief into your own words and highlight the key words .	
3	Features	Create a mind map to show all the features of a successful iPod docking product.	
4-5	Research	Create a pic collage of existing designs for inspiration for your docking station, include images & fonts that relate to your design. Insert a photograph of your completed iPod with extensive description of skills learnt using inventor.	
6-7	Ideas	Using a ruler sketch and colour two iPod docking design ideas on paper templates, labelling all the features and dimensions . Take a photo of each and insert into separate slides. Complete a PMI chart for each sketch.	
8	Final Design	Clearly select and justify your final design, explaining why you chose this idea and explain how it meets the design criteria.	
9	Make	Include a clear photograph of your completed project . Include a clear photograph of your A3 dream bedroom sketch.	
10-11	Procedure	Detailed list of the steps of construction of your product. Include all dimensions.	
12	Evaluation	Detailed evaluation of the positives, negatives and any improvements about your final design and the design process.	
Presentation/ completion		Quality presentation of your PowerPoint inclusive of creativity. Completion of all elements of the design process	
TOTAL			

Inventor IPod Dock Marking Criteria

Name: _____ Class: _____

It needs to be dropped in the class folder in Google Classroom on the due date or penalties will apply. Please ensure the file can be opened by the teacher.

	Mark	Criteria			
Dimensions, Fillets, Extrusions and Tree		All dimensions are accurate to plans. Including height, width, thickness and positioning of features. All features are filleted and extruded as in working drawing. All parts of the tree have been renamed.	Some dimensions are accurate to plans. Including height, width, thickness and positioning of features. Some fillets and extrusions are completed but only some match working drawing. Some parts of the tree have been renamed.	Few dimensions are accurate to plans. Including height, width, thickness and positioning of features. Few fillets and extrusions are completed but only some match working drawing. The tree parts have not been renamed.	No attempt/ unacceptable effort.
	12	12-9	8-6	5-1	0
IPod Dock matches the working drawing		Dock mirrors the working drawing and is inclusive of all design features, fillets and dimensions	Dock is similar to the working drawing and is inclusive of most design features, fillets and dimensions	Dock is dissimilar to the working drawing and has limited design features and elements indicated on the original plan	No attempt/ unacceptable effort.
	5	5-4	3-2	1	0
Innovation and creative design		IPod dock shows innovation and creativity and the student has created a challenging project which is inclusive of three or more lifelike details	IPod dock shows some innovation and creativity and the student has created project which is inclusive of one or two lifelike details	IPod dock shows limited innovation and creativity and the student has created a basic project with little detail	No attempt/ unacceptable effort.
	5	5-4	3-2	1	0
IPod dock surface render		All surfaces have a colour, texture render that is appropriate to IPod dock design. Including IPod dock speakers, buttons and life like details. Student uses 3 or more colours	Most surfaces have a colour, texture render that is appropriate to IPod dock design. Including IPod dock speakers, buttons and life like details.	Limited surfaces have a colour/ texture render that is appropriate to IPod dock design including IPod dock speakers, buttons and life like details.	No attempt/ unacceptable effort.
	5	5-4	3-2	1	0
IPod on title block		Professional and neat title block with information with capitals. All title block details are correct including title name, scale and date. IPod dock image is isometric, centred and has complete colour rendering. Scale on title block matches the project and the size is in proportion to the title block.	Basic and neat title block. Some information has capitals. Most title block details are correct including title name, scale and date. IPod dock image is isometric, centred and has complete colour rendering. Scale on title block does not match the project and/or the size is not in proportion to the title block.	Limited title block. Few title block details are correct including title name, scale and date. IPod dock image is not isometric, centred or doesn't have complete colour rendering.	No attempt/ unacceptable effort.
	8	8-6	5-3	2-1	0
TOTAL:					/35

COMMENTS:

Design Portfolio Marking Criteria

Name: _____ Class: _____

Problem			1	0
			Detailed design brief outlining the task and all key words are highlighted.	No design brief is written or words not highlighted
Research	4	3-2	1	0
	Detailed mindmap of features of a good iPod docking design. A range of pictures from inspirational sources are included in a collage, clearly showing evidence of research and investigation of existing designs through words and images. Photograph of completed iPod with extensive description of skills learnt using inventor	Satisfactory mindmap of the basic features of an iPod docking design. A basic range of pictures from inspirational sources are included in a collage, showing a satisfactory level of evidence of research and investigation of existing designs through words and images. Photograph of semi completed iPod with a brief description of skills learnt using inventor	Brief or no mindmap of features of a good iPod design. A brief range of pictures from similar sources are included in a collage, showing minimal evidence of research and investigation of existing designs. No key words are included. Photograph of iPod without description	No design factors are listed or collage of design ideas, showing no evidence of research and investigation.
Ideas	10-8	7-5	4-2	1-0
	Detailed development of solutions is elaborate with evidence of all important features of the design identified and considered. Two highly relevant prototypes are designed, coloured labelled inclusive of all dimensions, with time constraints and the design brief clearly considered. Detailed PMI of both designs	Satisfactory development of solutions with evidence of most features of the design identified and considered. Two relevant prototypes are designed, coloured labelled inclusive of some dimensions, with time constraints and the design brief clearly considered. Satisfactory PMI of both designs	Minimal development of solutions and features of the design brief are identified or considered. One relevant prototype is designed, inclusive of few features including colour label inclusive of very few dimensions and/or a brief PMI of design	Minimal to no development of solutions only one prototype is chosen with no PMI or consideration of the design brief
Make/Solution	8-7	6-4	3-1	0
	Clearly identifies which idea is selected and gives a detailed explanation in relation to the design brief. The student neatly presents the prototype with all required material and procedural steps. Inclusive of photograph of finished product. Detailed drawing of dream bedroom house plan with all key symbols and measurements included.	Identifies which idea is selected and gives a satisfactory explanation in relation to the design brief. The student presents the prototype with most material and procedural steps. Inclusive of photograph of finished product. satisfactory drawing of dream bedroom house plan with some key symbols and measurements included.	Identifies which idea is selected with no relation to the design brief. The student presents the prototype with limited material and procedural steps. Does not include photograph of finished product. basic drawing of dream bedroom house plan with no key symbols and or measurements.	No idea is selected.
Evaluation	4	3	2-1	0
	Personal evaluation is completed to a high and honest standard with a detailed reference to positive and negative aspects of the design and any improvements that can be made.	Personal evaluation is completed to a satisfactory standard with a satisfactory reference to positive and negative aspects of the design and any improvements that can be made.	Personal evaluation is completed to a basic standard with a limited reference to positive and negative aspects of the design and any improvements that can be made.	Minimal or no attempt has been made to complete the evaluation.
Presentation	3	2	1	0
	Folio is presented in a neat and creative manner and slides are in order. A title page is included with the following information of; topic, your name, teacher and class and images. All elements of the folio are included.	Folio is presented in a tidy manner, most slides are in the correct order. A title page is included with the following information of; topic, your name, teacher and class. Some elements of the folio are included.	Folio appears disorganized with slides or information not in the correct order of the design process. A title page is included with some of the following information of; topic, your name, teacher and class. Few elements of the folio are included.	Folio presentation is unsatisfactory with pages missing demonstrating work of a disorganised manner. No title page is visible.

Comments

Evaluation of Results:

Describe which area/s of the design folio that you did well and why?

Describe which area/s of the design folio that you can improve on and how?

How will you improve your organisation for the next assessment?
