
Output 1 **– Page 1&2: Design Research**

- ❑ Title
- ❑ Exam number
- ❑ Research Page – lots of specific examples
- ❑ All key words addressed
- ❑ Images to illustrate your points
- ❑ Evidence of Primary/Secondary Research (sketches & photos)
- ❑ Saved as PDF

– Page 3: Design Feature Comparison

- ❑ Title
- ❑ Exam number
- ❑ 2 main images
- ❑ Main dimensions
- ❑ Compare/contrast under key words from brief
- ❑ Freehand sketches to illustrate the main physical features
- ❑ Saved as PDF

Output 2 **– Page 4: Freehand Graphical Representation**

- ❑ Title
- ❑ Exam number
- ❑ Original sketches
- ❑ At least 1 3D view
- ❑ Other view(s) such as section, exploded, important detail, orthographic
- ❑ Brief annotations to explain how it works
- ❑ Final page scanned to PDF

Output 3 **– Solidworks Files**

- ❑ Part files (5-10 parts), assembly and drawings saved in Part A folder
- ❑ Assembly opens correctly (check on another computer)
- ❑ SolidWorks drawing file
- ❑ eDrawing file
- ❑ Sketches fully defined
- ❑ Features renamed

Output 4 **– Page 5: Hardcopy Output from Solidworks**

- ❑ Title block and board
- ❑ Detailed orthographic view, Exploded view, Rendered 3D view
- ❑ At least 5 dimensions arranged correctly
- ❑ Section or detail views if required
- ❑ Exam number included
- ❑ Saved as PDF

Output 5 – Page 6 & 7: Graphical Exploration of Design Solutions

- ❑ Title
- ❑ Exam number
- ❑ Evidence of inspiration (mood board, brainstorm, theme)
- ❑ Evidence of development and progression of design ideas (with sketches)
- ❑ Justification for chosen solution
- ❑ Saved as PDF

Output 6 – Page 8: Freehand Graphical Representation

- ❑ Title
- ❑ Exam number
- ❑ Original sketches
- ❑ At least 1 3D view
- ❑ Other view(s) such as section, exploded, important details, orthographic
- ❑ Brief annotations to explain how it works
- ❑ Final page scanned to PDF

Output 7 – Solidworks Files

- ❑ Master Model Part and drawings saved in Part B folder
- ❑ SolidWorks drawing file
- ❑ Sketches fully defined
- ❑ Features renamed

– Page 9: Hardcopy Output from Solidworks

- ❑ Title block and board
- ❑ Detailed orthographic views, Rendered 3D view
- ❑ At least 5 dimensions arranged correctly
- ❑ Section or detail views if required
- ❑ Exam number included
- ❑ Saved as PDF

– Page 10: Photorealistic images

- ❑ At least one full 3D view of object
- ❑ Exploded view, detail views, part views if required
- ❑ All images to scale

Final submission:

- ❑ Cover page
- ❑ Reference page
- ❑ Single PDF file created
- ❑ DCG SA 2023 Folder given to teacher

Creating the Main PDF

- You need to submit one single PDF file. You can create PDF's of each output by using the Save As function in PowerPoint or Solidworks and selecting PDF as the file type.
- This gives you a collection of individual PDF files. Rotate any that need it using a tool such as ilovepdf.com so that they are all in landscape format.
- Merge the individual PDF files using a tool such as ilovepdf.com/merge_pdf Rename the merged file "**DCG SA 2023 (exam number).pdf**" using your actual exam number

Putting it All Together