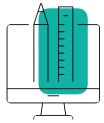

Topic: Golf Bag Storage	**Full Portfolio Evidence**	
General Description: A folder of 50 pages. The candidate accesses all sections of the assessment criterion. The candidate undertakes a project that aims to fulfil the clients requirements to solve the storage of Golfing equipment.		**Mod Mark**
Grid 1: Investigation **Evidence** **Slides 1-4**	A high-level project would demonstrate and effectively identify and justify pertinent design possibilities. Slides 2-4. The client is identified on slide 2, and four possible design solutions are identified with justification as to why the issue is a problem for the client and initial possibilities are also identified. In Slide 3, these areas are shown with prime images and some starting points to consider are identified. The differing potential areas of design possibilities are a little disparate, it may have been better to focus on golf or simply home storage solutions. The reason for choosing this area of study is confirmed on slide 4. A more focused starting point of possible solutions and the addition of more visuals would help support the candidate's discussion in this grid and raise the work to a higher level. This is a level 2 piece of work.	Level 2
Grid 2: Analysis / Research **Evidence** **Slides 5-14**	A high-level folder would include a perceptive selection of research sources, relating these to the design possibility. The research is found on slides 5 to 14. Under the initial design brief on slide 5, the candidate provides a research plan, in which justification of the research is shown, evidencing a link between the research and the design possibility. This link is further reinforced with conclusion statements on some of the slides and a research analysis on slide 14. The research is varied and includes prime research of the environment in which the final product is intended to be sited. Key information showing the dimensions and weights of the products to be stored are seen on slide 12. The material research slide 11 is generic, a greater assessment value to material research can be seen in the product analysis slides of 7 and 8, where the benefits of the given material properties are directly related to the use of the product. Overall, the work has a rather generic feel to it with some aspects such as the footprint of the product more carefully considered.	Level 3

	This is a sound research section. The needs wants and values of the user should be analysed in more depth, and the lack of ergonomics and anthropometrics limit the award, Knowing the weights that people can lift, or the size of knuckle space required to remove items from a shelf are an example of some missing key points. This is a level 3 award,	
Grid 3: Specification **Evidence**	In this section a specification that contains a range of specification points that are realistic, technical and measurable would be able to access a high assessment. The candidate offers a reworked and design brief on slide 14. This is not necessarily a progression from the information found in the research but does add some additional justification to the project. Specification points are justified on slides 15 and 16. However, the specification is lacking measurability. To gain the highest assessment specific test must be stated and compared against measurable parameters. As mentioned in the previous section, the candidate referenced the size of objects to be stored. This information could have been used for measurability. This is a level 2 submission.	Level 2
Grid 4: Design ideas **Evidence**	A high-level submission in this section would use a range of design strategies to generate a range of design proposals and would reference material selection and manufacturing processes in detail. The candidate offers 6 design proposals on slides 17 and 18. The use of analogous solutions to inspire a design outcome is the one design strategy that is used for all of the proposals. The client offers both a negative and positive response to each sketch, the value of this towards moving the design forward is not clearly indicated. The comparison chart on slide 19, misses justification of the scores. A higher-level response to this would include a conclusion stating which points are to be accepted or rejected and state why. This would support the development of the product taking on the positive aspects of each design and seeing how they function when they have potentially merged together. In the annotation some specific materials are mentioned, however the process of manufacture is missing, we do see the use of inspiration materials as a design strategy and this was credited This is a level 2 submission for this grid.	Level 2

Grid 5: Development **Evidence**	In this section a positive outcome would include a sophisticated application of modelling, application of technical knowledge and an iterative approach to inform the design decisions through the process. Slide 20, includes physical modelling in foamboard, generating a 3D form. A scaled model of a set of golf clubs is made to help assess the functionality of the idea. A reference to understairs storage is made and the candidate has used this to inspire the design. The models are simplistic; however, the surrounding annotation refers in some detail to the product use. Changes appear to minor, with the feeling of adding on, rather than progression. The research/ testing of wood joints, slide 21, has a value towards the assessment of this section when directly linked to product development, however the linkage is somewhat tenuous. This could refer to where the joints would be sited on a design sketch and justify their use. Slide 23, evidence a good use of CAD. There is a leap forward in the design proposal where the candidate states that inspiration was gained from aircraft seat folding trays. However, the CAD is more representative of the final piece, with amendments and changes already considered applied. Because of the lack of evidence of decision making this is a level 2 submission.	Level 2
Grid 6: Final design **Evidence**	In this section a high-level submission would include information to allow accurate manufacture by a third party. Slides 24 to 26 would give the information needed to cut the components of the storage unit. This, coupled with the manufacturing plan seen in slides 27 to 32, would help guide a third party through the manufacturing process. However, there is not a final drawing, some of the images on slide 23 were used to support the centre marks in this criterion. An assembly drawing would provide additional information and could include additional technical details such as tolerance. Material quantities are implied on slides 24 to 26, calculating these and relating them to stock sizes or costs would have secured further assessment evidence. These calculations can be seen on slide 44 and therefore given credit in this section. Overall, the lack of detailing in terms of realistic working drawings does restrict access to the highest levels of this criterion. This is a level 2 submission.	Level 2

Grid 7: Review **Evidence**	In this section the candidate is expected to provide evidence of continual review and evaluation of the development of the final idea. It is imperative for a high award that the candidate is analytical and balanced in their discussion and justification of the conclusion. An example of where balance can be seen is on slide 22. Advantages and disadvantages of joints are clearly evidenced, however, these are not directly related to the design project, so the award for this is limited. In the design sheets, slides 17 and 18, the clients' positive and negative feedback is seen, however, few conclusions are drawn from this, and an analysis of these comments is not given. The comparison chart on slide 19, would add value if the clients grading parameters are defined, and a degree of measurability was evidenced. This is a level 2 submission as conclusions are partially made.	Level 2
Grid 8: Communication **Evidence across portfolio**	A variety of graphic and modelling techniques with supporting technical annotation are required to access a high award in this assessment grid. Throughout the folder the candidate shows a variety of sketching, Cad and modelling techniques. The detail of technical language in the body of the design and development section is not refined enough to access the highest assessment when compared to the National standard. However, this is still a level 3 submission.	Level 3
Grid 9: Tools & Equipment **Evidence**	A high-level manufacture would include evidence of an accomplished use of tools and equipment, in both the preparation of the material and the assembly, whilst demonstrating a high degree of safe working practices. The candidate a positive application of health and safety as evidenced in the manufacturing diary slides 33 to 37, and with the inclusion of the health and safety column in the manufacturing plan slides 27 to 32. The diary shows evidence of measuring and marking out tools to indicate the candidate understood the need for dimensional accuracy. A template is mentioned in the production plan, this would support the marks awarded for the preparation of the material for manufacture. The construction of the final product is mostly simple block construction; however, each component is completed accurately. There is a limited range of tools and demanding processes applied. This is a high level 3 outcome.	Level 3

Grid 10: Quality & Accuracy **Evidence**	In this section candidates are expected to produce a fully working prototype that demonstrates skillful making skills at an advanced level. The protype was completed and met most of the demands of the design specification. (Evidence slide 40). However, the tasks used to complete the product were repetitive and the assembly simplistic for an A level project when compared to the National standard. There is some iteration in the manufacture, the hinge supporting golf bag support was replaced with a locking bracket. Slides 35 and 37. This is a level 3 submission	Level 3
4.1 Testing and evaluation **Evidence**	In this assessment grid it is expected that the candidate reflects on the views of the client/user and draws a balanced conclusion of the product from testing against a measurable criterion. Slide 41, The slide is titled 'Product testing" and has little/no value towards the assessment of the evaluation section. It is evident that the product was seen by the user but there are no conclusions or references to the comments made. To access the higher assessment marks specific tests should be named, and the criteria upon which they are to be tested should be documented. Similarly, slide 42, the analysis against the specification, subjective references only are given. The Life cycle analysis on slide 43, initially reads as being generic. However, some good points are raised re the recycling materials that have been veneered. This is a level 2 submission.	Level 2
Total		**Grade C**