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| **GCSE Design and Technology**  An aid to help with the marking of controlled assessment. This must be used in conjunction pages 12-16 of the specification  A best fit approach must be adopted.  **Criterion 1: Investigating the Design Context**   |  |  | | --- | --- | | **Understanding the design context** | | | 1. Discrimination shown when selecting and acquiring relevant research that will promote originality in design. 2. Excellent understanding and analysis of the design context 3. Good understanding and analysis of the design context 4. Basic understanding and analysis of the design context 5. Limited understanding or analysis of the design context |  | | **Analysis of products** | | | 1. Detailed analysis of relevant existing products or systems related to design intentions 2. Good analysis of relevant products or systems 3. Some analysis of related products or systems 4. Minimal analysis of other products or systems |  | | **Analysis of research** | | | 1. Comprehensive analysis of relevant and focussed research 2. Good analysis of relevant research 3. Superficial analysis of the research 4. Little evidence of analysis of research |  | | **Design Criteria** | | | 1. Clear and specific design criteria identified, reflecting the analysis undertaken 2. Design criteria which reflects the analysis undertaken 3. Design criteria reflects most of the analysis undertaken 4. Design criteria is very general and is lacking in any detail |  | | **Target Market** | | | 1. Target market identified and intended consumer profiled 2. Target market for the product has been identified 3. Some consideration has been taken of the likely consumer/user 4. Limited understanding of the target market/user evident |  |   **Maximum mark: 8**  (1)7-8 (2)5-6 (3)3-4 (4) 1-2 | **Criterion 2: Development of Design Proposals**   |  |  | | --- | --- | | **Design Ideas** | | | 1. Imaginative and innovative ideas, demonstrating creativity, flair and originality, Further developments made to take account of ongoing research 2. Imaginative ideas demonstrating a degree of creativity which are further developed to take account of ongoing research 3. Design ideas show some degree of creativity and further development 4. Ideas show some variation in approach or concept 5. Ideas are lacking in imagination with minimal development or further research |  | | **Planning** | | | 1. A coherent design strategy, with clear evidence of a planned approach, adopted throughout 2. An appropriate design strategy, with evidence of planning, adopted for most aspects 3. An appropriate design strategy, with some evidence of planning, adopted for some aspects 4. A limited design strategy, with some evidence of planning is evident 5. Little evidence of a logical approach being adopted, with no indication of planning |  | | **Social, Moral, Environmental and Sustainability** | | | 1. The implications of a wide range of issues including social, moral, environmental and sustainability, are taken into consideration and inform the development of the design proposals 2. Development of design proposals take into account the main aspects related to a variety of social, moral, environmental and sustainability issues 3. Developments of design solutions are influenced to some extent by factors related to social, moral, environmental and sustainability issues 4. Some consideration taken of social, moral and environmental and sustainability issues in development of design solutions 5. Development work shows little consideration of social, moral and environmental and sustainability issues |  | | **Development** | | | 1. Excellent development work through experimentation with a wide variety of techniques and modelling in order to produce a final design solution 2. Good development work achieved through working with a variety of techniques and modelling 3. Adequate development work achieved through working with a range of techniques and modelling 4. Development work is lacking in detail but makes reference to a number of techniques and modelling 5. Basic development work undertaken using a limited range of techniques |  | | **Understanding of materials** | | | 1. Appropriate ingredients and components selected with full regard to their working properties 2. Appropriate ingredients and components selected with regard to their working properties 3. Ingredients and components selected with some regard to their working properties 4. Ingredients arid components selected with limited regard to their working properties 5. Ingredients and components selected with little regard to their working properties |  | | **Product Specification** | | | 1. Fully detailed and justified product specification taking full account of the analysis undertaken 2. Product specification is complete and reflects key aspects of the analysis undertaken 3. Product specification reflects most aspects of the analysis 4. Limited product specification which reflects most obvious features of analysis 5. Produced a simple product specification which is general in nature |  |   **Maximum mark: 32**  (1)26-32 (2) 19-25 (3) 12-18 (4)6-11 (5)0-5 |

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| **Criterion 3: Making**   |  |  | | --- | --- | | **Making skills** | | | 1. High level of making/modelling/finishing skills and accuracy 2. Very good level of making/modelling/finishing skills 3. Good level of making/modelling/finishing skills 4. Basic level of making/modelling/finishing skills 5. Undemanding level of making/modelling/finishing skills |  | | **Equipment** | | | 1. Selected and used appropriate tools, materials and/or technologies skilfully and safely 2. Selected and used appropriate tools, materials and/or technologies correctly and safety 3. Used appropriate materials, components, equipment and processes correctly and safely 4. Used materials, components and equipment correctly and safely 5. Used materials, components and equipment safely under close supervision |  | | **Final Product** | | | 1. Worked independently to produce a rigorous and demanding outcome 2. Outcome demonstrates a high level of demand 3. Parts of the outcome show high levels of demand 4. Some aspects of outcome are demanding 5. Worked with some assistance to produce outcome of limited demand |  | | **Quality control** | | | 1. Qualify controls are evident throughout the project and it is clear how accuracy has been achieved 2. Quality controls checks applied in the manufacture of the product 3. Applied quality control checks broadly but superficially 4. Some evidence of limited quality control applied throughout the process 5. There is limited evidence of any quality control and levels of accuracy are minimal |  | | **Commercial production/Target group** | | | 1. The outcome has the potential to be commercially viable and is suitable for the target market 2. The outcome is suitable for the target market and could be commercially viable with further development 3. The outcome requires further development in order to be suitable for the target market 4. The outcome has some weaknesses which limit its suitability for the target market 5. The outcome has significant weaknesses which limit its suitability for the target market |  |   **Maximum mark: 32**  (1) 26-32 (2) 19-25 (3) 12-18 (4) 6-11 (5) 0-5 | **Criterion 4: Testing and Evaluation**   |  |  | | --- | --- | | **Appropriate testing** | | | 1. Detailed testing and evaluation as appropriate throughout the designing and making process taking account of client/user or third party opinion 2. Appropriate testing and evaluation of the product evident throughout the designing and making process 3. Evidence of testing and evaluation leading to the production of the final outcome 4. 4 Minimal testing and evaluation through the designing and making process |  | | **Testing against the specification** | | | 1. All aspects of the final outcome have been tested against the design criteria & product specification 2. Most aspects of the final outcome have been tested against the design criteria and the product specification 3. Some evidence of testing against the design criteria and/or the product specification 4. Limited or not testing of final outcome against the design criteria and product specification |  | | **Improvements and modifications** | | | 1. Evaluate and justify the need for modifications to the product and consideration given as to how the outcome might need to be modified for commercial production 2. Evaluate and justify the needs for improvements or modifications to the product 3. Some improvements or modifications to the product suggested 4. Limited mention of some improvements or modifications that could be made to the product |  |   **Maximum mark: 12**  (1) 9-12 (2)6-8 (3)3-5 (4)0-2  **Criterion 5: Communication**   |  |  | | --- | --- | | **Design folder** | | | 1. Design folder is focused, concise and relevant and discriminates an appropriate selection of material for inclusion 2. Design folder shows some skill in choice of material for inclusion but includes some irrelevant content 3. Design folder shows excessive duplication of information and a lack of brevity and focus resulting in irrelevant content |  | | **Decision making/technical language** | | | 1. All decisions communicated in a clear and coherent manner with appropriate use of technical language 2. Most decisions communicated with some clarity and with some use of technical language 3. Ideas and decisions communicated at a simplistic level with a limited grasp of the concepts involved and a limited use of technical vocabulary |  | | **Written communication** | | | 1. The text is legible, easily understood and shows a good grasp of grammar, punctuation and spelling 2. There are a small number of errors in grammar, punctuation and spelling 3. Numerous errors in grammar, punctuation and spelling |  |   **Maximum mark: 6**  (1)5-6 (2)3-4(3)0-2 |