

| Teacher Initials:                         | Date:  | Project: | 1   |
|---|--|----------|---|
| Stage                                     | Grade  | Target   | Comments on Designing Skills (criteria)   |
| Research                                  |  |          | <p>G. Gathered <b>minimal</b> research information</p> <p>F. Used <b>more than one</b> source to gather research information</p> <p>E. Used a <b>limited</b> number of sources to gather research information</p> <p>D. Used <b>several</b> appropriate sources to gather relevant research information</p> <p>C. Used a <b>variety of appropriate</b> sources to gather and order relevant research information</p> <p>B. Produced a <b>well ordered and relevant</b> range of appropriate research information</p> <p>A. Used a <b>wide variety</b> of appropriate sources to gather relevant research information</p>  |
| Analysis (of problem / task and research) |  |          | <p>G. Provided <b>little evidence</b> of analysis of task or research</p> <p>F. Made a <b>limited</b> attempt to analyse the task and the research material</p> <p>E. Made a <b>superficial analysis</b> of the task and most of the research material</p> <p>D. Made a <b>simple</b> analysis of the task and all research material</p> <p>C. <b>Analysed</b> the <b>task</b> and the <b>research</b> material</p> <p>B. <b>Thoroughly</b> analysed the task and research material</p> <p>A. Analysed the task and the research material <b>logically, thoroughly and effectively</b></p>  |
| Specification                             |  |          | <p>G. Produced a <b>simple</b> specification</p> <p>F. Produced a <b>generalised</b> specification</p> <p>E. Produced a specification which reflects the <b>most obvious</b> features of the analysis</p> <p>D. Produced a specification which reflects <b>most</b> of the analysis?</p> <p>C. Produced a specification which <b>reflects</b> the analysis</p> <p>B. Produced a detailed specification <b>closely</b> reflecting the analysis</p> <p>A. Produced a detailed specification which <b>focuses closely</b> on the analysis</p>  |
| Generation of ideas                       |  |          | <p>G. Produced a solution, with <b>rudimentary</b> forward planning</p> <p>F. Produced <b>at least two</b> proposals which satisfy parts of the specification</p> <p>E. Produced <b>some</b> proposals which satisfy most of the specification</p> <p>D. Produced <b>several</b> proposals which satisfy the specification</p> <p>C. Produced a <b>range</b> of proposals which satisfy the specification</p> <p>B. Produced a <b>wide range</b> of proposals which satisfy the specification</p> <p>A. Produced a wide range of <b>distinct</b> proposals which satisfy the specification</p>  |
| Development of Solution                   |  |          | <p>G. Used a proposal to produce the outcome with <b>little development</b> and forward planning</p> <p>F. Used their proposals and relevant knowledge to produce a solution <b>which satisfies most</b> of the specification</p> <p>E. Used their proposals and relevant knowledge to develop a solution <b>which satisfies</b> the specification</p> <p>D. Used their proposals and relevant knowledge to develop a <b>detailed</b> design solution which satisfies the specification</p> <p>C. Used their proposals and relevant knowledge of <b>techniques, manufacturing and working characteristics</b> of materials to develop a detailed design solution</p> <p>B. Used one or more of their proposals and relevant knowledge of techniques, <b>manufacturing and working characteristics</b> to develop a <b>detailed and coherent</b> design solution</p> |
| Planning of making                        |  |          | <p>G. Demonstrated <b>negligible</b> forward planning</p> <p>F. Demonstrated <b>some</b> forward planning</p> <p>E. Planned <b>sequence</b> of making activities</p> <p>D. Planned a <b>largely correct, and workable, sequence</b> of main making activities</p> <p>C. Planned the <b>correct sequence</b> of making activities</p> <p>B. Produced a <b>correct sequence of activities</b> which shows <b>where, why and how</b> practical production decisions were made</p>  |
| Evaluation, testing and modification      |  |          | <p>G. Attempted a <b>superficial evaluation</b> of the outcome of their work</p> <p>F. <b>Superficially</b> tested and evaluated their work against <b>original intentions</b></p> <p>E. Tested and evaluated <b>some</b> aspects of their work</p> <p>D. Tested and evaluated <b>most</b> aspects of their work and made some appropriate modifications</p> <p>C. Tested, evaluated and modified their work <b>throughout</b> the process as appropriate</p> <p>B. Tested, evaluated and modified their work <b>throughout</b> the process as appropriate</p> <p>A. Tested, <b>objectively</b> evaluated and effectively modified their work throughout the process as appropriate</p>   |
| N.B.                                      | Some sections may not apply to some projects |          | N.B. 1. Assess the appropriate whole grade for Designing. 2. Decide whether High, Middle or Low within the grade. 3. Do the same for making skills. 4. Look up the Matrix mark.   |

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| NAME:  | Exam Year: | 200[ ]                               | 2  |
|--|------------|--------------------------------------|--|
| Stage  | Grade      | Target                               | Comments on Designing Skills - continued   |
| Use of communication, graphical and use of ICT skills                                |            |                                      | <p>G. Demonstrated <b>very limited</b> communication, graphical and ICT skills</p> <p>F. Demonstrated <b>limited</b> communication, graphical and ICT skills</p> <p>E. Used <b>some appropriate</b> communication, graphical and ICT skills to convey design ideas</p> <p>D. Used <b>appropriate</b> communication, graphical and ICT skills to convey design ideas</p> <p>C. Used a <b>range</b> of communication, graphical and ICT skills sufficient to convey ideas to themselves and others.</p> <p>B. Used an <b>appropriate range</b> of communication, graphical and ICT skills <b>sufficient to convey</b> ideas to themselves and others effectively</p> <p>A. <b>Selected and skilfully used a wide range</b> of communication, graphical and ICT skills which have helped to clarify their thinking and are sufficient to convey ideas to themselves and others <b>effectively and precisely</b></p> |
| Social issues, Industrial practices and systems & control (including the use of CAD) |            |                                      | <p>G. Provided little or no evidence of having considered industrial practices and systems and control.</p> <p>F. Provided limited evidence of having considered industrial practices and systems and control.</p> <p>E. Provided limited evidence of having considered industrial practices and systems and control.</p> <p>D. Provided <b>limited evidence</b> of having considered relevant industrial practices and systems and control.</p> <p>C. Provided <b>evidence of having considered relevant issues</b>, industrial practices and systems and control.</p> <p>B. Provided <b>evidence of having considered relevant issues</b>, industrial practices and systems and control.</p> <p>A. Provided evidence that they have <b>considered and taken account of relevant issues</b>, industrial practices and systems and control.</p>  |
| Overall Grade for Designing  | 40%        | Comments on Making Skills (criteria) |  |
| Correction of working errors (where needed) including modifications                  |            |                                      | <p>E. Corrected working errors <b>where necessary</b></p> <p>D. <b>Appropriately</b> corrected working errors</p> <p>C. <b>Recognised</b> the need for and justified any changes or adaptations</p> <p>B. <b>Recorded</b> and <b>justified</b> the need for any changes or adaptations</p> <p>A. Recorded and justified the need for any changes or adaptations</p>  |
| Use of appropriate equipment and processes (including the use of CAM)                |            |                                      | <p>G. <b>Produced references</b> to the use of CAM where appropriate</p> <p>F. Used materials, components and equipment <b>correctly and safely</b> (including CAM if appropriate)</p> <p>E. Used materials, components, equipment and <b>processes correctly and safely</b> (including CAM if appropriate)</p> <p>D. Used <b>appropriate</b> materials, components, <b>equipment</b> and processes correctly and safely (including CAM)</p> <p>C. Used <b>appropriate</b> materials, components, <b>tools</b>, equipment and processes (including CAM) correctly and safely</p> <p>B. Used <b>appropriate</b> materials, components, tools, equipment and processes (including CAM) <b>skilfully</b>, correctly and safely</p> <p>A. Used <b>appropriate</b> materials, components, equipment and processes (including CAM) <b>consistently correctly, skilfully</b> and safely</p>                             |
| Production and effectiveness of outcome  |            |                                      | <p>G. Produced an <b>undemanding or incomplete</b> outcome</p> <p>F. Produced a <b>largely complete</b> but undemanding outcome</p> <p>E. Produced a <b>largely complete</b> and largely effective outcome</p> <p>D. Produced an <b>effective</b> and largely complete outcome</p> <p>C. Produced a complete, effective and <b>well-assembled</b> outcome</p> <p>B. Made a complete, effective and <b>skilfully-produced</b> outcome</p> <p>A. Made a complete product of <b>high quality</b></p>  |
| Level of accuracy and finish   |            |                                      | <p>G. Used materials, components and equipment safely under close supervision</p> <p>F. Demonstrated <b>accuracy and finish</b> in some parts of the product</p> <p>E. Demonstrated a fair degree of accuracy and finish in the overall product</p> <p>D. Demonstrated a <b>reasonable level</b> of accuracy and finish in the product</p> <p>C. Demonstrated a level of accuracy and finish in the product which <b>satisfies most</b> of the demands of the design solution</p> <p>B. Demonstrated a level of accuracy and finish in the product which <b>satisfies</b> the demands of the design solution</p> <p>A. Demonstrated an ability to satisfy <b>accurately and completely</b> all the demands of the design solution</p>  |
| Use of Quality Assurance (QA) and Quality Control (QC)                               |            |                                      | <p>G. Some evidence of QA and QC</p> <p>F. Produced evidence of <b>some</b> QA and QC</p> <p>E. Applied QA and QC <b>broadly but superficially</b></p> <p>D. Applied QA and QC <b>broadly</b></p> <p>C. <b>Clearly</b> used QA and QC to control quality in <b>most</b> activities</p> <p>B. Provided <b>evidence</b> of QA &amp; QC <b>throughout</b> manufacture</p> <p>A. <b>Thoroughly considered</b> QA &amp; QC and applied them consistently and successfully</p>   |
| Overall Grade for Making   | 60%        | 5                                    | Matrix Mark  |
| Spelling & Grammar   |            | 95                                   | As Percentage  |
|  |            |                                      | %  |

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