

Design Design and Technology - Progress Map

| | | | | | AO1: Design | | | | |
|---|---|---|---|--|--|---|--|---|---|
| Shows initial ideas through sketching | Shows imagination when producing a | | Shows creativity and imagination when | Shows creativity and imagination when | None obvious ideas with more outside the box | Avoided stereotypical responses. | Detailed specification produced that links to research | | Produce creative ideas that are able are viable. |
| or simplistic drawings with little or no development. | range of designs with little | producing a design with little or no | | producing a small range of designs with little or no development. | thinking for initial ideas. | Taken into account the clients needs and wants and | conducted. | functionality and aesthetics. | Demonstrated further research. Consider different mechanisms to make the outcome |
| no development. | development. | development. | no development. | or no development. | Taken ongoing research into consideration | justified these. | Shows great creativity in designs and presentation. | Plan for manufacture. | move. |
| Uses colour to show forward | Uses colour and simple lines to show | Uses colour and lines/mark making to | | | when designing. | | | | Use CAD independently where appropriate. |
| planning. | the material properties. Annotate designs with key | show the material properties and finish | of the clients needs and on going research. | research and others opinions. | Measuring and accuracy applied to technical | Mathematical modelling using oral and digital presentations and computer-based tools. | Development is done accurately and from ongoing research conducted. | Apply computing and use electronics to embed intelligence in products that respond | Select appropriate materials and components for the design/s. |
| Label designs with key information. | information. | Annotate designs with thoughts and ke | Considered function, aesthetics and | Final solution designed and annotated. | drawings. | · | | to inputs [for example, sensors], and control | Show clear forward planning for manufacture with |
| Designs are shown in 2D only. | Designs are shown in 2D sketches and | information. | innovation when developing ideas through visual or annotated evidence. | Forward planning shown for manufacture. | Some evidence of experimented in 2D and 3D | Considered the cost of materials and components. | Evidence of experimenting and or modelling. | outputs [for example, actuators], using programmable components [for example, | QA/QC and safety tests build in. Create a manufacting specification. |
| | attempted in 3D. | Designs are shown in 2D and 3D. | visual of affilotated evidence. | roi ward planning shown for mandracture. | techniques. | investigate new and emerging technologies. | At least one model is fit for purpose. | microcontrollers]. | Create a cutting list with quantities, cost and size. |
| | | CAD used if appropriate with resilience | | Use technical language in annotation. | | | | | Shows scale/working drawings. |
| | CAD used with considerable assistance and supervision. | to trail new tools. | 3D techniques. | | Development shown in drawing and modelling | Planned for combining materials. | | | Develops ideas through modelling a number of ideas. Further small scale experimenting evident through a |
| | | Limited consideration of materials that | CAD used if appropriate with resilience to | | Selected material and components with | | | | wide range of 2D and 3D techniques. |
| | Limited or no consideration of materials that could be used. | could be used. | trail new tools. | | reference to their properties. | | | | Selected appropriate and challenging materials and components. |
| | materiais that could be used. | | Evidence of modelling the final solution. | | CAD has been used confidentially if | | | | components. |
| | . 15.15 | 2 /2 /2 | - 1- 1- | | appropriate. | - 1- | | 2/24 | - / - * * |
| E3/3c | 1/F/3 | 2/E/4 | 3/D/5 | 4/C- | 5/C+ | 6/B | 7/A | 8/A* | 9/A** |
| | | | | | A02: Make | | | | |
| Needs assistance or guidance to | Needs assistance to solve problems. | Needs some guidance to solve | Independent decision making and problem | | Good level of finishing skills that are | Trialled a wide range of techniques that are suitable | Trialled a wide range of techniques that are suitable | Consider costing and availability of materials | Detailed manufacturing specification. |
| solve problems. | On going testing when making to | problems. | solving. | produced. | appropriate for the outcome. | for chosen outcome. | for chosen outcome. | and components. | Formational high standard of automas and finish |
| Supported during the manufacturing | ensure a quality outcome is produced g Chronological evidence of making | Used some guidance and supervision | Produces models of work in fabric, | Produces models of work in fabric, | Appropriate use of CAM. | Transferred skills to final outcome independently. | Transferred skills to final outcome independently. Combines a range of materials and techniques in | Can explain Scale of production and production systems. | Exceptional high standard of outcome and finish. |
| process. | through a diary or photos. | during the manufacturing process. | paper/card or rough material or | paper/card, rough material or programming | | | final outcome/s. | Demonstrate manipulation of materials. | Meets the specification fully. |
| Superficial testing when making to | Successful pleasing appearance and well finished. | On going testing and QC is minimal. | programming (breadboard) to ensure the outcome is feasible. | (breadboard) to ensure the outcome is feasible. | Tools and equipment are used safely, accurately and confidently. | Combines a range of materials and techniques in final outcome/s. | Can display complex joints or seams to attach and ioin material. | Use Jigs, pattern blocks, templates, reference points. | Use and/or explain the industrial practice used to |
| ensure the outcome will work. | Working outcome. | Jg and QC is minimide. | | | | | Have inserted or combined premade components | QA and QC conducted. | manufacture the outcome. |
| Working outcome with little | Little evidence of making through a diary or photos. | | Inconsistent QC in making. | Can design and assemble nets accurately. | Good level of QC through the project. | Can display complex joints or seams to attach and ioin material. | accurately. | Considered ergonomics and | Use CAM independently where appropriate. |
| Working outcome with little consideration of finish. | Successful working outcome with | Basic evidence of making through a | A mostly successful appearance, working | Demonstrates marking and measuring out | Shown consideration of industrial practice | John Haterial. | Understand material properties and use this to make informed decisions. | Produce creative ideas that are able are | Use CAM independently where appropriate. Consistently adapting outcome where needed to meet |
| | little consideration of finish. | diary or photos. | outcome and some consideration of finish. | onto materials with correct equipment and | through making. | Have inserted or combined premade components | Take risks and show resilience during manufacture. | viable. | clients, needs and wants. |
| Safely used equipment and machinery with support. | Select correct equipment. Safely used equipment and | A mostly successful appearance, | Basic , well ordered evidence of making | cut/saw accurately. | Chronological evidence of making through a | accurately. | Built in tolerance when making and conduct QA/QC. Demonstrated computer-aided manufacture. | Demonstrated further research. Consider different mechanisms to make the | Apply appropriate finishes to materials used. |
| | machinery. | working outcome and some | through a diary or photos. | Explain the process of manufacture and | diary, photos or flowchart. | Understand material properties and use this to make | Selected from and use a wider, more complex range | outcome move. | |
| | | consideration of finish. | | justify actions. | Most of the specification points have been met | informed decisions. | of materials and components, taking into account their properties. | Use CAD independently where appropriate. Create a manufacting specification | Commercially viable outcome. |
| | | Accurately and safely used equipment | | Can explain and demonstrate inputs, | iviost of the specification points have been filed | Take risks and show resilience during manufacture. | Most of the specification points have been met. | | Large body of detailed evidence of making the |
| | | and machinery. | | processes and outputs. | | | Manufacturing specification produced that has clear | size. | outcome. |
| | | | | Chronological evidence of making through a | | Built in tolerance when making and conduct QA/QC. | relevance to work produced. High level of making and finishing | Shows scale/working drawings Develops ideas through modelling a number | |
| | | | | diary or photos. | | Demonstrated computer-aided manufacture. | Skilfully used equipment. | of ideas. | |
| | | | | | | Colored form and | | Further small scale experimenting evident | |
| | | | | | | Selected from and use a wider, more complex range of materials and components, taking into account | | through a wide range of 2D and 3D techniques. | |
| | | | | | | their properties. | | | |
| | | | | | | Most of the specification points have been met. | | | |
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| E3/3c | 1/F/3 | 2/E/4 | 3/D/5 | 4/C- | 5/C+ | 6/B | 7/A | 8/A* | 9/A** |
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| | | | | | AO3: Evaluate | | | · | • |
| E3/3c Uses advice and feedback to close the gap. | 1/F/3 Uses advice and feedback to close the gap. | | | | <u> </u> | Justify the need for modifications when evaluating. | Justify the need for modifications when evaluating. | · | 9/A** t Redesign and suggest areas for development and modifications. |
| Uses advice and feedback to close the gap. | Uses advice and feedback to close the gap. | Uses advice and feedback to close the gap. | Uses advice and feedback to close the gap. | Evaluated skills throughout the project. Evaluated strengths and stated areas to | AO3: Evaluate Justify the need for modifications when evaluating. | Justify the need for modifications when evaluating. Some parts of the outcome have been tested against | Justify the need for modifications when evaluating. Some parts of the outcome have been tested against | Redesign and suggest areas for developmen and modifications. | t Redesign and suggest areas for development and modifications. |
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| Uses advice and feedback to close the gap. Evaluated final outcome showing realistic strengths and areas to develop. E3/3c E3/3c Responds to a brief or specification superficially. Can search for specific images to help build knowledge and inspire ideas. Can name and demonstrate | Uses advice and feedback to close the gap. Evaluated final outcome showing clear strengths and areas to develop. Tested and evaluated final outcome to see if it works. 1/F/3 Responds to a brief or specification. Produce secondary research showing an understanding of the theme set or others. Can name, describe and demonstrate | Uses advice and feedback to close the gap. Evaluated final outcome showing clear strengths and areas to develop. Basic testing, evaluation and refining their ideas and products against a specification, taking into account the views of a specification that groups. 2/E/4 Creates and responds to a specification Produce secondary research that aids the design process and identifications of others that could be inspirational. Impact on society has been vaguely considered. Profiles who the product could be designed and made for. Understands how more advanced mechanical systems used in their products enable changes in movement | Uses advice and feedback to close the gap. Evaluated final outcome showing clear strengths and areas to develop. Some aspects of the final product have been tested, evaluated and refined to improve ideas and the final product against a specification, taking into account the views of intended users and other interested groups. 3/D/5 Basic analysis of the task/brief showing areas to consider when designing and making. Understands and can state limited information on a clients needs and wants. Can investigate and use information gathered on iconic designers/movements to inform ideas. Understands how society can | Evaluated skills throughout the project. Evaluated strengths and stated areas to develop. Most aspects of the final product have been tested, evaluated and refined to improve ideas and the final product against a specification, taking into account the views of intended users and other interested groups. 4/C- Analyse the task/brief in detail showing areas to consider when designing and making. Produced a client profile suited to the outcome that can mostly be used to address a clients needs and wants. Understood pattern and shape and how the can be used within a design. Displayed research from eras, design movements or work of others. Show an understanding of traditional and industrial processes. Identify and solve design problems and understand how to reformulate problems. Basic research evident into materials and their properties to make an informed | Justify the need for modifications when evaluating. Some parts of the outcome have been tested against the specification/s. Understand developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, engineers and technologists wher identifying areas to modify and improve. 5/C+ A04: Knowledge Detailed brief and analysis. Shown an understanding and consideration of SMSC with limited understanding of the impact investigated existing products. Understand what a client wants and needs and investigates this through an interview or profile. A mostly accurate and appropriate design and | Justify the need for modifications when evaluating. Some parts of the outcome have been tested against the specification/s. Understand developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, engineers and technologists when identifying areas to modify and improve. 6/B Analysed existing products to influence designs in depth. Shown an understanding and consideration of SMSC with limited understanding of the impact. Understand what a client wants and needs and investigates this through an interview or profile. Understand how more advanced electrical and electronic systems can be powered and used in their products. [for example, circuits with heat, light, | Justify the need for modifications when evaluating. Some parts of the outcome have been tested against the brief and /or specification/s. Understand developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, engineers and technologists when identifying areas to modify and improve. Ongoing evaluation shown throughout. 7/A Detailed design brief and Analysis is evident with justified conclusion. Investigated potential client and explained their needs and wants. All research conducted is relevant and concise. Have analysed work of others in a range of styles to aid inspiration. Shows an understanding of SMSC in general. Appropriate written, drawn or practical | Redesign and suggest areas for developmen and modifications. Show third party opinions when evaluating throughout. A variety of testing throughout as well as the final product and recorded with a clear understanding and justification of results. Tested designs and final product against the specifications and function such as strength, appearance, durability and safety. 8/A* Understand and display knowledge of materials and properties with original source and process of manufacturing. Can explain a range of appropriate material finishes. State how materials are commercially sold. Understand how market research can effect the design process. Demonstrate industrial skills. Display clients wants and needs through a questionnaire or survey and analyse results. Create and differentiate between a design and manufacturing specification. Researched and shown an understanding fo | t Redesign and suggest areas for development and modifications. Show third party opinions when evaluating throughout. A variety of testing throughout as well as the final product and recorded with a clear understanding and justification of results. Tested designs and final product against the specifications. 9/A** Use Primary and Secondary sources for research of others. Written an appropriate and detailed brief. Analyse the context and problem in detail. Consider new and emerging technologies through research. Show knowledge of Modern and smart materials. Display Systems for designing and making that could be used. Look at market place focusing on current and changing trends. 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