

GCSE Design Technology

NEA TRACKER

Students should use this tracker as a guide in order to complete the NEA.

Student should also use the NEA guidance PowerPoint provided to them alongside example folders and lesson PowerPoints. All of these resources can be found on the shared area and on OneNote.

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| Section A: (4 pages) Identifying & investigating design possibilities (10 marks) | Task Analysis |
| | Client Profile and interview |
| | investigation into the work of others |
| | Product Analysis |
| | Product Disassembly |
| | Primary research (Sizes, function, materials) |
| | Analysis of Research |
| Ongoing research when relevant | |
| Section B (2 pages max preferable 1) 10 marks | Design Brief linked to client's Needs and Wants |
| | Design Specification |
| Section C: Generating Design Ideas (6 Pages) (20 Marks) | Creativity experimentation |
| | Initial Design Ideas |
| | Ongoing investigations into design ideas |
| | Chosen Design Idea to develop annotated against Spec |
| Section D: (6 pages) Developing Design Ideas (20 Marks) | 2D and 3D drawings of the final design using graphic techniques |
| | CAD Development work of the final design |
| | 3D model (Card, foam, MDF) all evaluated with client |
| | Prototype models (practice joints, finishes etc) |
| | Materials, components tools and equipment |
| | Manufacturing Specification (production plan) for the final design with QC (including an orthographic drawing) |
| Section E: (3 pages) Realising design ideas (20 marks) | Quality Control Evidence (photos of how you made your product and how you checked for quality when making) |
| | Commercial Viability (How could your product be adapted for mass production?) |
| Section F: (3 pages) Analysing & evaluating (20 marks) | Continuous evaluations throughout the NEA |
| | Final Test Against the Specification |
| | Client/user testing and final interview |
| | Final Evaluation |

| Hours | Wk | Topic/ Content | Objectives/Skills | Independent Study (1-2 hours per week) | Assessment | Success Criteria | Stretch & Challenge (Thirst for Learning) |
|------------------------|--|-------------------------|--|---|---|---|--|
| 7/8 hours approx | 1 | Non-Examined Assessment | <ul style="list-style-type: none"> Research Analysis and Design Specification | Student should be using: <ul style="list-style-type: none"> example folders Lesson PowerPoints Teacher feedback NEA tracker | Ongoing teacher feedback Related to the NEA Updated NEA tracker to communicate progress to students | Designing and Making Assessments: <ul style="list-style-type: none"> AQA grading criteria for the NEA using the top three bands only. | Students could look at exemplar A Level NEA folders in order to aim for grade 8 and 9 Student should ensure they are developing sketch up skills to skilfully communicate work in the NEA folder. |
| | 2 | | <ul style="list-style-type: none"> Design ideas annotated against the spec | To ensure that their NEA is being completed to target and that deadlines are being met. | | | |
| | 3 | | <ul style="list-style-type: none"> Design ideas annotated against the spec Client feedback on design ideas | Tasks will be set specifically to individuals depending on the progress they are making | | | |
| 4 | <ul style="list-style-type: none"> Modelling ideas in 3D and using sketch up | | STUDENTS WILL NEED TO ATTEND DT SESSIONS AT LUNCH TIME AND AFTER SCHOOL FOR AT LEAST TWO HOURS PER WEEK IN ORDER TO MEET THE DESIGNIG AND MODELLING DEADLINES | | | | |
| 5 | <ul style="list-style-type: none"> Modelling ideas in 3D and using sketch up Evaluating models with the client | | | Ongoing photographic evidence and making and evaluations should be updated weekly in students NEA folder | | | |
| 6 | <ul style="list-style-type: none"> Manufacturing specification Production plan with QC and health and safety Cutting list | | | | | | |

| Hours | Wk | Topic/ Content | Objectives/Skills | Independent Study (1-2 hours per week) | Assessment | Success Criteria | Stretch & Challenge (Thirst for Learning) |
|------------------------|----|-------------------------|--|--|---|---|--|
| 7/8 hours approx | 1 | Non-Examined Assessment | <ul style="list-style-type: none"> Manufacturing specification Orthographic drawing | Student should be using: <ul style="list-style-type: none"> example folders Lesson PowerPoints Teacher feedback NEA tracker | Ongoing teacher feedback Related to the NEA Updated NEA tracker to communicate progress to students | Designing and Making Assessments: <ul style="list-style-type: none"> AQA grading criteria for the NEA using the top three bands only. | Students could look at exemplar A Level NEA folders in order to aim for grade 8 and 9 Student should ensure they are developing sketch up skills to skilfully communicate work in the NEA folder. |
| | 2 | | <ul style="list-style-type: none"> Manufacturing Students should be following their manufacturing specification to make their product. | To ensure that their NEA is being completed to target and that deadlines are being met. | | | |
| | 3 | | <ul style="list-style-type: none"> Manufacturing Students should be following their manufacturing specification to make their product. | Tasks will be set specifically to individuals depending on the progress they are making | | | |
| 7/8 hours approx | 4 | | <ul style="list-style-type: none"> Manufacturing Students should be following their manufacturing specification to make their product. | STUDENTS WILL NEED TO ATTEND DT WORKSHOP SESSIONS AT LUNCH TIME AND AFTER SCHOOL FOR AT LEAST TWO HOURS PER WEEK IN ORDER TO MEET THE CHRISTMAS DEADLINE FOR PRODUCTS TO BE COMPLETED | | | |
| | 5 | | <ul style="list-style-type: none"> Manufacturing Students should be following their manufacturing specification to make their product. | | | | |
| | 6 | | <ul style="list-style-type: none"> Manufacturing Students should be following their manufacturing specification to make their product. | | Ongoing photographic evidence and making and evaluations should be updated weekly in students NEA folder | | |
| 5 hours | 7 | | <ul style="list-style-type: none"> Manufacturing Students should be following their manufacturing specification to make their product. | | | | |
| | 8 | | <ul style="list-style-type: none"> Manufacturing Students should be following their manufacturing specification to make their product. | | | | |

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| 7/8 hours approx | 1 | Non-Examined Assessment | <ul style="list-style-type: none"> Manufacturing Students should be following their manufacturing specification to make their product. | Student should be using: <ul style="list-style-type: none"> example folders Lesson PowerPoints Teacher feedback NEA tracker | Ongoing teacher feedback Related to the NEA Updated NEA tracker to communicate progress to students | Designing and Making Assessments: <ul style="list-style-type: none"> AQA grading criteria for the NEA using the top three bands only. | Students could look at exemplar A Level NEA folders in order to aim for grade 8 and 9 Student should ensure they are developing sketch up skills to skilfully communicate work in the NEA folder. |
| | 2 | | <ul style="list-style-type: none"> Manufacturing Students should be following their manufacturing specification to make their product. | To ensure that their NEA is being completed to target and that deadlines are being met. | | | |
| | 3 | | <ul style="list-style-type: none"> Commercial viability of the product. Students will need to evidence how they product can be adapted for commercial production and about the wider impact on the environment and society | Tasks will be set specifically to individuals depending on the progress they are making | | | |
| 7/8 hours approx | 4 | | <ul style="list-style-type: none"> Client Testing What does the client think of the completed product? Photographic evidence of the product in use | STUDENTS WILL NEED TO ATTEND DT WORKSHOP SESSIONS AT LUNCH TIME AND AFTER SCHOOL FOR AT LEAST TWO HOURS PER WEEK IN ORDER TO MEET THE CHRISTMAS DEADLINE FOR PRODUCTS TO BE COMPLETED Ongoing photographic evidence and making and evaluations should be updated weekly in students NEA folder | | | |
| | 5 | | <ul style="list-style-type: none"> Testing against the original design specification | | | | |
| | 6 | | <ul style="list-style-type: none"> NEA improvements based on teacher feedback and the tracker. NEA DEADLINE | | | | |