



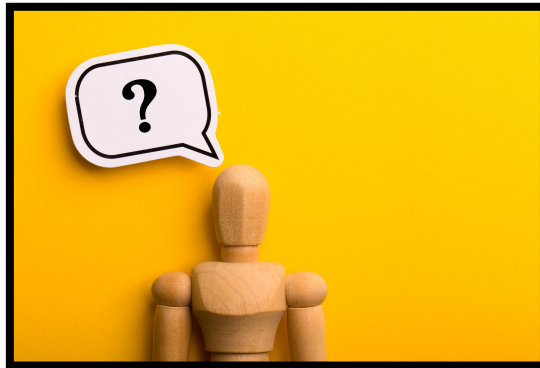
GCSE Design & Technology

Frequently Asked Questions



GCSE Design & Technology Frequently Asked Questions

This booklet has been collated to allow teachers easy and direct access to our most frequently asked questions. The booklet is divided into 3 sections; general qualification questions, Component 1 and Component 2. [Click the Images below to take you to the relevant Section.](#)



General Qualification
Questions



Component 1 – The Written
Exam



Component 2 - NEA

Please note: Eduqas Design and Technology does not have an official social media outlet and is not a member of any other social media groups. In a time of active social media there have been several instances where information, opinions and individual comments have been misinterpreted and, in some cases, resulted in centres / teachers / candidates following incorrect guidance for certain qualifications. Therefore, we would strongly urge centres to follow guidance provided on our official websites and not inaccurate comments, posts, or releases on 'other' social media forums. If in any doubt, contact the [Eduqas Design and Technology Team](#).

General Qualification Questions

- How are the components assessed?
- What is the split in the qualification for the exam and coursework components?
- As there are no focus areas within Design and Technology anymore, is there still an opportunity for learners to favour a focus area during their assessments?
- What are the areas of study?
- What are the entry codes?
- Does this qualification count in performance tables?
- Is there a revision guide available?
- Where can I find professional Learning and exemplar materials?
- Where can I find the grade boundaries?



Component 1 – The Written Exam

- How is the exam structured?
- How are questions structured?
- What are the topic areas within the core knowledge?
- How much detailed knowledge are students required to have?



Component 2 - NEA

- What is the deadline for submitting the NEA Component 2 marks?
- How do I submit the NEA Component 2 marks?
- Where can I find the Brief?
- Where can I find the Component 2 - Marksheet?
- Where can I find the Moderator's report?
- how many marks is each assessment criteria worth?
- Does work need to be annotated?
- Is there a prescribed NEA workbook for students to work on?
- What should be included within the sketchbook and portfolio?



Component 2 - NEA

- Can the portfolio be purely digital?
- How is component 2 assessed?
- What paper size should be used?
- Are teachers able to give guidance?
- Can design and practical work be taken home?
- Are writing frames allowed?
- Can a specific making process be done by an outside company?
- I have 28 pupils in my class. Can I use substitute materials to reduce the cost of the projects?



Component 2 - NEA

- Can my pupils use CAD drawings from the internet in NEA project work?
- Can students disassemble products and use parts / components in NEA project work?
- Some of my students have produced lots of CAD models. Do I need to print all of these out for the visiting moderator to view in the sample I present?
- The visiting moderator has told us that they cannot give feedback at the end of their visit. Is this correct?
- What level of supervision is required; Can students complete their NEA work at home?
- Can a candidate make a scale model instead of a full-scale prototype due to increasing cost of materials and components?



Summary of Assessment

Taken from the [specification](#)

Component 1:

- ✓ 2 hour exam
- ✓ 100 marks
- ✓ Externally examined
- ✓ 50% of qualification

Component 1: Design and Technology in the 21st Century Written examination: 2 hours 50% of qualification

A mix of short answer, structured and extended writing questions assessing candidates' knowledge and understanding of:

- technical principles
- designing and making principles

along with their ability to

- analyse and evaluate design decisions and wider issues in design and technology.

Component 2: Design and make task Non-exam assessment: approximately 35 hours 50% of qualification

A sustained design and make task, based on a contextual challenge set by WJEC, assessing candidates' ability to:

- identify, investigate and outline design possibilities
- design and make prototypes
- analyse and evaluate design decisions and wider issues in design and technology.

Component 2:

- ✓ Non-Exam Assessment
- ✓ Approx 35 GLH
- ✓ 100 marks
- ✓ Internally marked, externally moderated
- ✓ 50% of qualification



Entries

Available from [Eduqas Website](#)

WJEC/Eduqas GCSE Design and Technology qualification is a linear specification which means that there is only one entry code per level. This one code will enter the students for both Components.

Level	Entry Code
GCSE	C600QS

WJEC/Eduqas GCSE Design and Technology qualification counts towards the performance tables measures



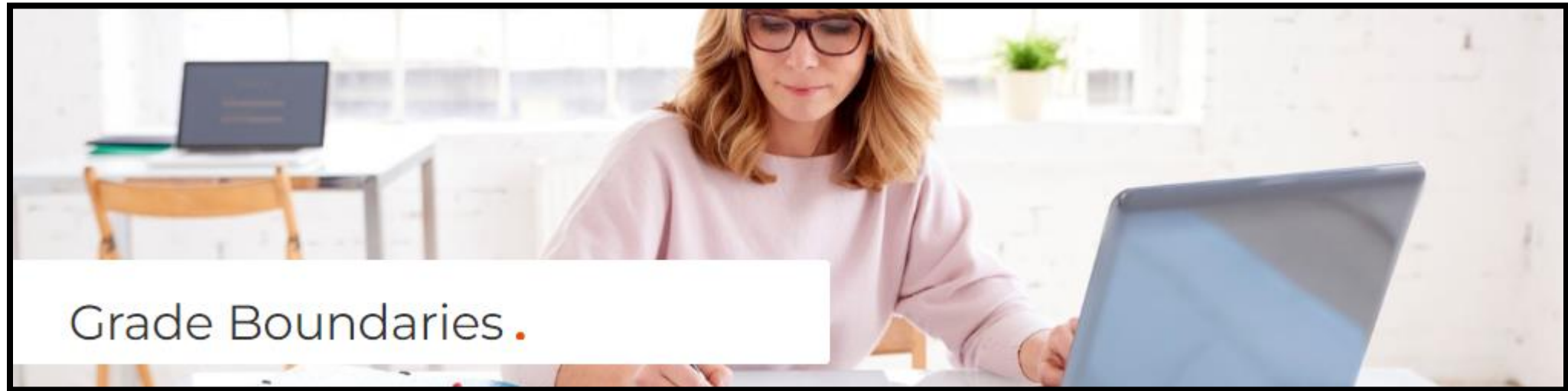
Click the image above to find further information regarding entry codes, the submission of preliminary and final entries, basedata, fees and other entries information.



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Grade Boundaries

Available from [Eduqas Website](#)



Grade boundaries are the minimum number of marks needed to achieve each grade. Whilst exam papers are written to the same level of difficulty, they do vary each year. Grade boundaries ensure that whenever the exam is sat, students receive the same grade for the same level of performance.

[Click the image above to find the latest Design and Technology Grade boundaries.](#)



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Textbooks

Available from www.hoddereducation.com



ISBN:9781510451346



ISBN:9781510471696



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Resources

Available from [Subject Webpage](#)

Our Resources Guide shows you where you can access all the key materials and resources that you will need to deliver the GCSE Design and Technology specification.



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Focus Areas

Component 1:

Section A requires core knowledge (Question 5 does allow the candidate to give answers from their area of study).

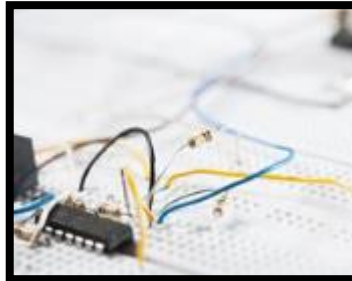
In **Section B** the learners can choose to answer 1 question from the 6 areas of study.

Component 2:

For the **NEA**, the 3 set contextual challenges will be quite broad so the learners should be able to favour an area of study when completing this.

Click on the images to take you to a blended learning resource for each focus area. For more resources see [The D&T Resources Guide](#).

The 6 areas of study are



electronic systems,
programmable components
and mechanical devices



papers and boards



natural and manufactured timber



ferrous and non-ferrous
metals



thermoforming and
thermosetting polymers



fibres and textiles

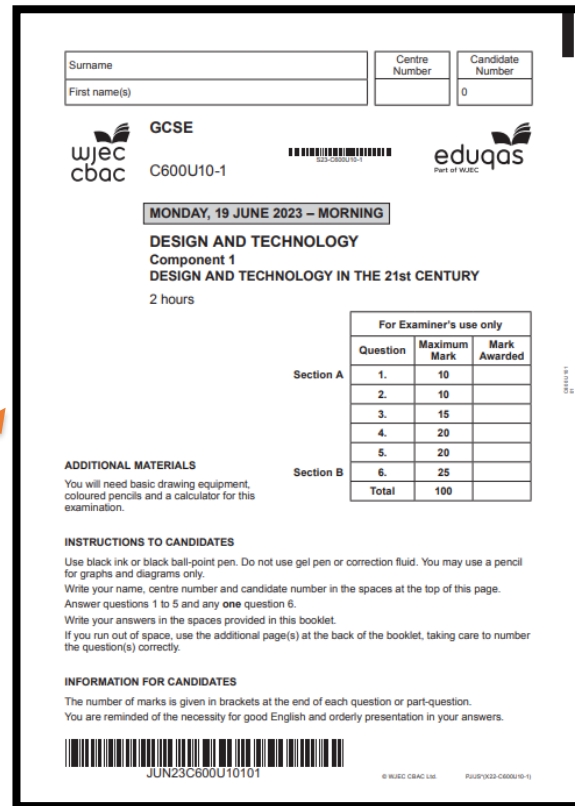


Exam Structure

The exam paper is made up of both short-structured answers and extended writing questions.

Learners will be asked to use or complete diagrams to support answers their answers.

Click on the image of the Past Paper to view an example of the exam structure



The image shows the front cover of a GCSE Design and Technology exam paper. It includes a header with 'wjec cbac' and 'eduqas' logos, the code 'C600U10-1', and the date 'MONDAY, 19 JUNE 2023 - MORNING'. The title is 'DESIGN AND TECHNOLOGY Component 1 DESIGN AND TECHNOLOGY IN THE 21st CENTURY' with a duration of '2 hours'. A table for 'For Examiner's use only' shows the mark distribution for questions 1 through 6. Below the table are sections for 'ADDITIONAL MATERIALS', 'INSTRUCTIONS TO CANDIDATES', and 'INFORMATION FOR CANDIDATES'. A barcode and the code 'JUN23C600U10101' are at the bottom.

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
Section A		
1.	10	
2.	10	
3.	15	
4.	20	
5.	20	
Section B		
6.	25	
Total	100	

Section A - Questions 1 to 5

✓ requires [Core Knowledge](#)

Question 5 allows the learner to give answers from their area of study.

Section B – Question 6

✓ requires [In-depth Knowledge](#)

✓ requires learners to choose **one** question from the 6 areas of study



Knowledge and Understanding

Taken from the [specification](#)

Core knowledge and understanding is presented in **five** clear and distinct topic areas:

- **design and technology and our world**
- **smart materials**
- **electronic systems and programmable components**
- **mechanical components and devices**
- **materials**

Learners are required to study **all of the content in these five areas**, to ensure they have a broad knowledge and understanding of design and technology and that they are able to make effective choices in relation to which materials, components and systems to utilise within design and make activities.

For amplification of the Core and In-depth Knowledge and Understanding topic areas please see section [2.1 Technical Principles](#) in the Eduqas GCSE Design & Technology Specification

In-depth knowledge and understanding is presented in **six** clear and distinct topic areas:

- **electronic systems, programmable components & mechanical devices**
- **papers & boards**
- **natural & manufactured timber**
- **ferrous & non-ferrous metals**
- **thermoforming & thermosetting polymers**
- **fibres & textiles**

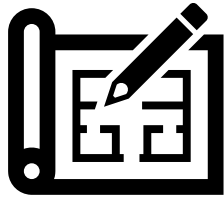
Learners are required to study **at least one** of these six areas, to ensure they have an in-depth knowledge and understanding of a specific material area and/or components and systems to support their design and make activities.

All topics within the core knowledge and understanding, the in-depth knowledge and understanding, and designing and making principles must be addressed. In each case, the left-hand column identifies the content topic and the amplification indicates the areas that need to be covered. The amplification column provides more information on the content presented in the left-hand column, including the breadth and depth of study required. Where 'e.g.' is used in the amplification column, the list which follows is illustrative only. In all other instances, the list of items in the amplification column must be covered. Centres are not restricted to how they will deliver this to the learner but it is anticipated that there will be an integrated approach between the core and the in-depth content.



Non-Exam Assessment

Available from [Subject Webpage](#) and on [Portal by WJEC](#)

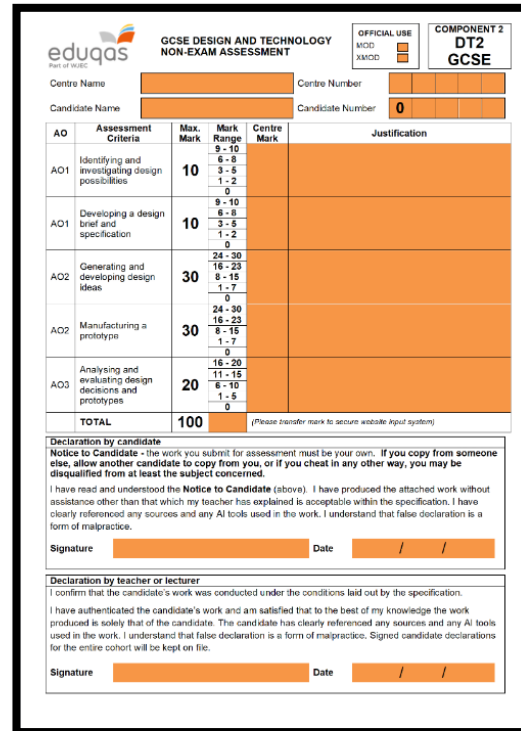


Contextual Challenge Briefs

The GCSE Design and Technology Contextual challenge briefs are released on [Portal](#) on the 1st June under the Examinations & Assessments > Non-Examination Assessment Task Tab.

Please ask your Examinations Officer to set you up with a secondary account if you currently have no access.

Click on the images below to download the relevant forms from the Subject Website (resources > Key Documents > Non-Exam Assessment)



eduqas Part of WJEC
GCSE DESIGN AND TECHNOLOGY
NON-EXAM ASSESSMENT

OFFICIAL USE
MOD
XM0D

COMPONENT 2
DT2
GCSE

Centre Name Centre Number

Candidate Name Candidate Number

AO	Assessment Criteria	Max. Mark	Mark Range	Centre Mark	Justification
AO1	Identifying and investigating design possibilities	10	9 - 10 6 - 8 3 - 5 1 - 2 0		
AO1	Developing a design brief and specification	10	9 - 10 6 - 8 3 - 5 1 - 2 0		
AO2	Generating and developing design ideas	30	24 - 30 16 - 23 8 - 15 -1 - 7 0		
AO2	Manufacturing a prototype	30	24 - 30 16 - 23 8 - 15 1 - 7 0		
AO3	Analysing and evaluating design decisions and prototypes	20	16 - 20 11 - 15 6 - 10 1 - 5 0		
TOTAL		100	<i>(Please transfer mark to secure website input system)</i>		

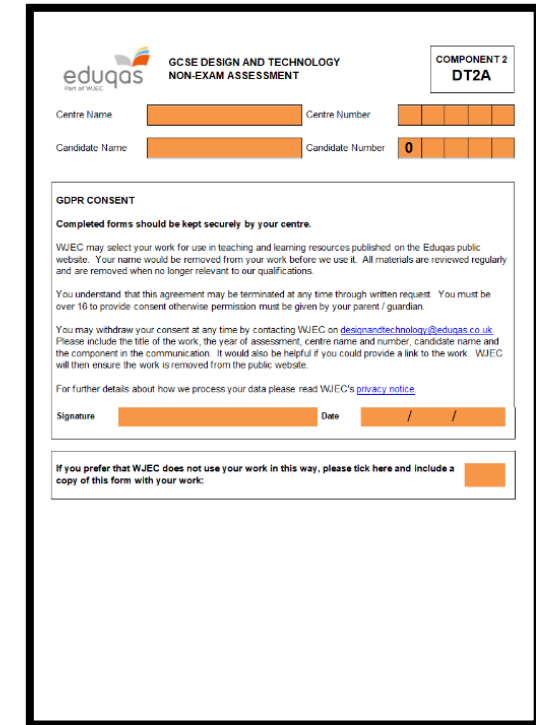
Declaration by candidate
Notice to Candidate - the work you submit for assessment must be your own. If you copy from someone else, allow another candidate to copy from you, or if you cheat in any other way, you may be disqualified from at least the subject concerned.
I have read and understood the Notice to Candidate (above). I have produced the attached work without assistance other than that which my teacher has explained is acceptable within the specification. I have clearly referenced any sources and any AI tools used in the work. I understand that false declaration is a form of malpractice.

Signature Date / /

Declaration by teacher or lecturer
I confirm that the candidate's work was conducted under the conditions laid out by the specification.
I have authenticated the candidate's work and am satisfied that to the best of my knowledge the work produced is solely that of the candidate. The candidate has clearly referenced any sources and any AI tools used in the work. I understand that false declaration is a form of malpractice. Signed candidate declarations for the entire cohort will be kept on file.

Signature Date / /

Component 2: Marksheet (DT2)



eduqas Part of WJEC
GCSE DESIGN AND TECHNOLOGY
NON-EXAM ASSESSMENT

COMPONENT 2
DT2A

Centre Name Centre Number

Candidate Name Candidate Number

GDPR CONSENT
Completed forms should be kept securely by your centre.

WJEC may select your work for use in teaching and learning resources published on the Eduqas public website. Your name would be removed from your work before we use it. All materials are reviewed regularly and are removed when no longer relevant to our qualifications.

You understand that this agreement may be terminated at any time through written request. You must be over 16 to provide consent otherwise permission must be given by your parent / guardian.

You may withdraw your consent at any time by contacting WJEC on designandtechnology@eduqas.co.uk. Please include the title of the work, the year of assessment, centre name and number, candidate name and the component in the communication. It would also be helpful if you could provide a link to the work. WJEC will then ensure the work is removed from the public website.

For further details about how we process your data please read WJEC's [privacy notice](#).

Signature Date / /

If you prefer that WJEC does not use your work in this way, please tick here and include a copy of this form with your work:

Component 2: GDPR Consent Form (DT2A)



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Key Dates

Available from [Subject Webpage](#)



A List of key dates for Eduqas GCSE Design and Technology is available on the Subject Webpage under Resources > Key Documents > Key Information

Published at the start of each year, this document will give you all the important dates you need to plan for the year ahead.

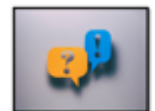
Static Dates:

21st February - [Entries](#) Deadline

5th May - Submissions of Marks Deadline for Component 2 NEA



For all Eduqas Key Dates Click the image above



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Internal Assessment

Available from [Eduqas Website](#)

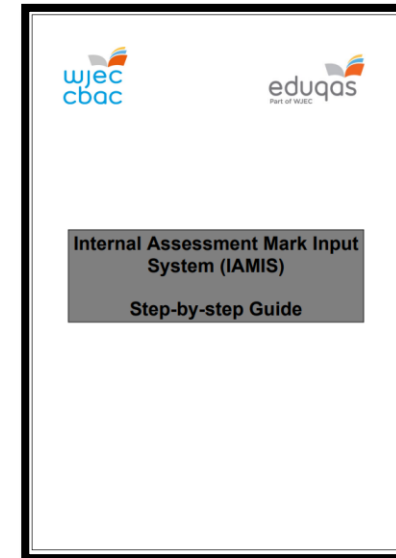
You will need to enter your marks for all your candidates on to the Internal Assessment Mark Input System (IAMIS) via [Portal](#)

Once you have submitted all your marks, the system will automatically generate the sample for you – depending on the size of your cohort, this is usually no more than 10 candidates.

All candidate work needs to be available in case the moderator requires work outside the sample of 10.



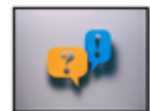
For information and guidance regarding Eduqas internally conducted assessments and the submission of internally assessed work, including how to submit marks; how to carry forward marks and where to find moderator reports click on the image above



Take a look at the IAMIS Step-by-step Guide

Entering Candidates' marks – Page 6

Moderator's reports - Page 16



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Sketchbook & Portfolio

Writing Frames
are **NOT** allowed – these
would be classified as
leading the learner.

NO prescribed workbook.

Students should use:

- an **informal** sketchbook
- a **formal** portfolio.



This will encourage an iterative approach to design and development of their work.

Digital Portfolios

A portfolio **can be** entirely digital if this is appropriate for the work undertaken and enables the student to fully and successfully address all aspects of the Assessment Objectives. Drawing can be included, for example, using a stylus and graphics tablet or by simply scanning hand drawn sketches.

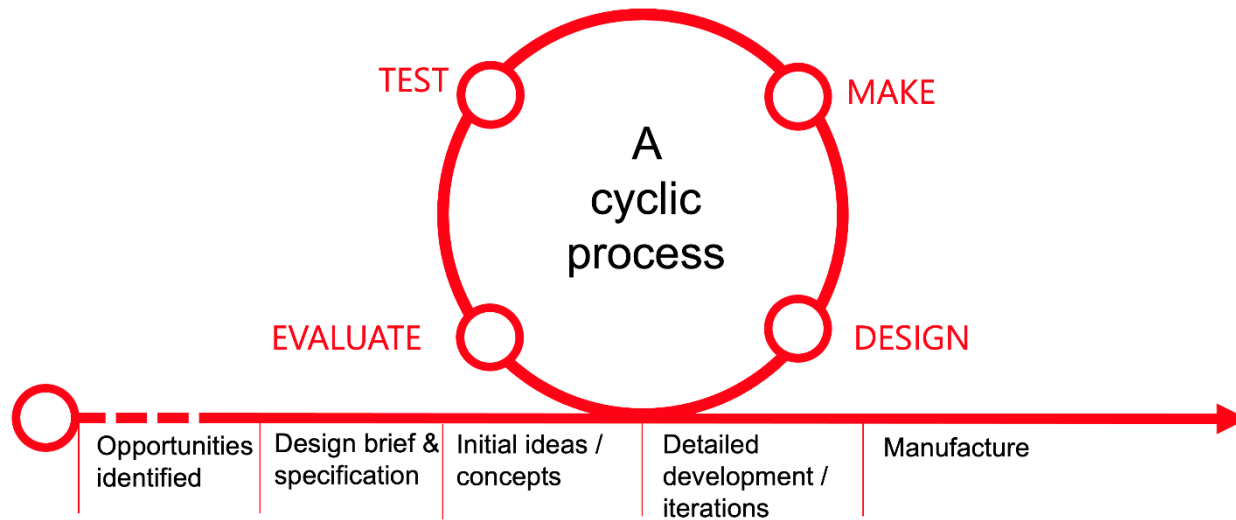
Paper Size

We are suggesting to you that A4 or A3 paper size should be used. Our recommendation is no more than 20 x A3 (approximately).



Evidence

An iterative design process



The iterative process is essential.

It is anticipated that centres will be providing evidence on:

- Reviewing contextual challenges,
- reviewing primary/secondary research,
- suggested design briefs,
- final design brief,
- testing,
- initial design ideas,
- refine and development of ideas,
- prototyping,
- evaluative decision making,
- high quality 2D/3D images of proposals,
- planning/ timelines,
- modifications and evaluations,
- final prototype of finished product etc.



Assessment

Component 2 is internally marked and externally moderated.

A visiting moderator will be assigned to your centre to look at the sample generated by the online mark input system.

A written report with details of the moderation finding will be made available on results day.

AO	Assessment Criteria	Max. Mark
AO1	Identifying and investigating design possibilities	10
AO1	Developing a design brief and specification	10
AO2	Generating and developing design ideas	30
AO2	Manufacturing a prototype	30
AO3	Analysing and evaluating design decisions and prototypes	20



Marking the NEA



Exemplar:

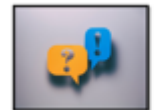
WJEC/Eduqas releases a variety of new and updated resources annually. There are a range of recent exemplar NEAs available via the Portal which will provide detailed support and guidance for teachers when assessing and standardising candidate NEA outcomes.

Annotation:

Annotation through out the work is not necessary. However, there should be a detailed summative comment on the DT2 Marksheet to indicate how the mark has been awarded for each AO.

Internal Moderation:

If there is more than one teacher teaching the cohort/assessing the NEA, it is pivotal that internal moderation takes place to ensure that the marking standards are the same across the entire group.





Scale Models and Materials

The Final prototype must be:

- **full sized**
- **fully functioning**
- **high quality**

Scale Models are only allowed where a design proposal is unable to be full size i.e., an architectural style model of a series of affordable housing proposals for economically developing countries. In this instance a scale model would be the most effective means of presenting the outcome.

Cost & Space

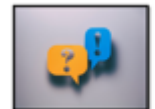
We appreciate cost of materials and the logistics of storing larger projects can be problematic for centres, However the use of scale models and substitute materials should not be used in order to alleviate these problems. Where necessary centres should encourage students to produce smaller products that allow them to produce a full sized, fully functioning, high quality prototype with appropriately selected materials.

Materials should:

- **be selected appropriately for the intended product**
- **not be substituted for alternatives.**

Substituting materials can often prevent candidates from testing products effectively, and this can also have a negative impact on accessing assessment criteria. A substitute material should only be used if the original intended material is not available (or cannot be used in a school setting e.g., hazardous chemicals.)

Teaching D&T will inevitably involve sustainability, and the 6Rs. If an 'old' product (obsolete or broken) is disassembled and parts are used as 'donor' components for a 'new' product that the candidate is developing, this is fine. It should be noted that the new product **should not be made exclusively from existing parts**, the candidate should aim to manufacture the product as it is designed, and where appropriate use 'donor' parts or components instead of sourcing identically versions which are new and possibly costly.



CAD

Candidates should design, develop, test, and refine CAD drawings specifically for NEA project work.

If a kit, CAD drawing or component list is bought-in and assembled, this will not deserve as many marks as a candidate producing their own.

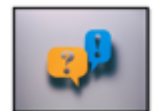
Accessing the assessment criteria is critical, so teachers need to ensure that candidates do not limit the number of opportunities to design, model, test, refine and present their own solutions rather than find existing versions that cannot be credited to the candidate.

Electronic files can be examined by the moderator electronically. There is no need to print copies for the moderator.

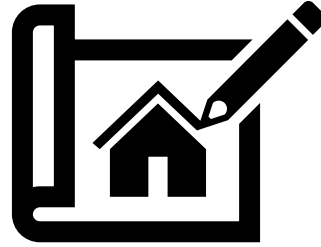
A PowerPoint or Word document showing a series of models can be viewed on screen.

Centres will need to provide the visiting moderator with a temporary account / password to access the work.

It is advised that any electronic work is saved onto a USB drive / memory stick in case moderators need to bring candidate work away from the centre.



Supervision & Guidance



Design work should be completed under some controlled conditions in lessons in the school workshops, but there is some flexibility where e.g. the candidate could work on NEA at home but is supervised via a Teams, Zoom or similar meeting. This allows you to authenticate the work and sign the declaration to confirm that the work is that of the candidate. This approach can be useful if a learner is away from school as a result of an injury or illness e.g. is on crutches, and can't attend school, but can carry on working on NEAs at home. It would not be an extended approach where a candidate completes all the design work and prototype away from the centre without supervision.

Teacher Guidance is **essential** at the start of the NEA, to ensure that the student does not set a problem that is unachievable in the time limit. You may support the student through the process, but **the key word is 'guidance'**.

The design and make task must be appropriately supervised to ensure that assessors are able to confidently authenticate each learner's work. The design and make task should be carried out in the normal design and technology classroom/workshop environment. Learners are allowed supervised access to resources that may include information gathered outside assessment time, but their portfolios must be compiled within the school or college environment so that assessors can confidently authenticate the work.

Each learner must produce their final prototype or prototypes (though not necessarily their portfolio) under 'immediate guidance or supervision'. This means the prototype(s) have to be produced either:

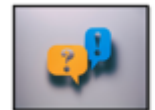
- (i) with the simultaneous physical presence of the learner and the supervisor,*
- or (ii) remotely by means of simultaneous electronic communication."*

In most cases supervision will be of the form described in (i), but in some circumstances, for example if the learner is carrying out a specialist process away from the centre, (ii) may be more appropriate. (Page 37-38 Eduqas GCSE Design & Technology Specification)

Students are permitted to take their design work home; however, the majority of the work should be done within the school to ensure that the assessor is able to authenticate the work as being the student's own. We suggest that you only allow the students to take home what they are working on and leave the rest of the work in a secure place within the school.

All practical work should be completed within the school or college under the guidance or supervision of the teacher.

The final prototype should be completed within the school or college and not be allowed to be taken home at any point.



Moderation Feedback

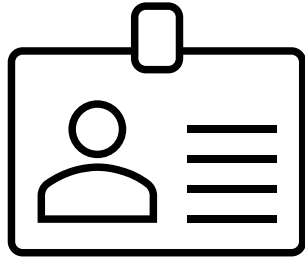
A visiting moderator cannot confirm the centre marks, or any changes to the marks, before the results are published in August.

Centres are provided with a detailed written centre report of the moderation of the NEA work on results day.

Your Moderator's report will be available to download from [Portal](#) – under the Internal Assessment Tab, **on results day**. Your report will only remain on the system until December, so it is important that you download and retain a copy before then.



The Subject Team



SUBJECT OFFICER:

JASON CATES

SUBJECT SUPPORT OFFICER:

JODIE MEARING-LANE



029 9940 4303



designandtechnology@eduqas.co.uk

Useful Contacts

If you have a Design and Technology query that has not been answered in this booklet, please do not hesitate to contact the [Subject Team](#).

Please click on the image below for other useful contacts, such as; Entries and CPD.

