**A level Design and Technology**

**Year 13 revision plan**

**Key dates**

Examinations Major Project

Formal mock examination 1: Jan 20th 2020 – Feb 14th 2020 Feb 14th 2020 – Major project review submission deadline

Formal mock examination 2: April 20th – June 4th: Final examination preparation and revision March 20th 2020 – Major project agreed deadline

Final external examination: **Friday 5th June 2020 9.00am** March 23rd – April 3rd: Major project assessment and contingency

May 5th 2020: Major Project submission of marks deadline

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| **Week Commencing** | **Focus area for revision** | **Weblinks** | **Lesson Focus** | | |
| **Thursdays every other week** | | |
| **9th Sept 2019 – 16th Dec 2019** | **Applied Mathematics** | <http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/media/eduqas-dandt-maths.pdf> | Applied Mathematics | | |
|  |  |  | Monday | Tuesday | Thursday |
| **20th Jan 2020** | **Section 1: Designing and innovation** | <http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-3/Design%20and%20Innovation/Eng/eduqas/Design%20and%20Innovation.pdf> | Practice questions with Miss. Williams  Individual focus based on exam tracker data | Focussed revision and exam technique with Mr. Nines | Applied Maths or practice papers |
| (a) Principles of designing | <http://www.technologystudent.com/despro_flsh/iterative1.html> |
| (b) Research techniques |  |
| (c) Analysis of the problem |  |
| (d) Problem solving strategies |  |
| (e) Quantitative and qualitative testing | Quantitative : Measurement of specific amplitude, level, or quantity of a material, output, or product to evaluate the operational characteristics of an item.  Read more: <http://www.businessdictionary.com/definition/quantitative-testing.html>  Qualitative: Associated with the subjective quality of a thing or phenomenon, such as feel, taste, expertise, image, leadership, reputation.  Read more: <http://www.businessdictionary.com/definition/qualitative.html> |
| (f) Ergonomics and anthropometrics | <http://www.technologystudent.com/despro_flsh/revise11.html> |
| (g) Computer systems for designing |  |
| (h) Innovation |  |
| (i) Consider issues when designing |  |
| (j) Research, plan and evaluate |  |
| (k) Generate and develop ideas |  |
| (l) Develop proposals |  |
| (m) Detail design |  |
| (n) Communicate ideas & information |  |
|  | **2 Materials and components** | For Product Design students  <http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-3/Design%20and%20Innovation/Eng/eduqas/Materials%20and%20Components.pdf>  <http://www.technologystudent.com/>  <https://www.bbc.com/bitesize/examspecs/z4nfwty> - although it’s intended for GCSE it’ still useful  For Textiles students  <http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-3/website/pdf/_eng/_wjec/textiles-1/materials-resource-1.pdf>  <http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-3/website/pdf/_eng/_wjec/textiles-1/materials-resource-2.pdf>  <https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rIid=1103>  <http://www.textileshotline.co.uk/> | Practice questions with Miss. Williams  Individual focus based on exam tracker data | Focussed revision and exam technique with Mr. Nines | Applied Maths or practice papers |
| (a) Materials and their application |
| (b) Working characteristics of materials |
| (c) Materials with specific properties |
| (d) Modern material technology |
| (e) Materials for specific requirements |
| (f) Choice of finishes |
| (g) Components and their application |
| (h) Safe working practices |
| (i) Work with materials & components |
|  | **3 Processes** | <http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-3/Design%20and%20Innovation/Eng/eduqas/Processes%20Industrial%20and%20Commercial%20Practice.pdf>  <http://www.technologystudent.com/>  <https://www.bbc.com/bitesize/examspecs/z4nfwty>  <http://www.textileshotline.co.uk/> | Practice questions with Miss. Williams  Individual focus based on exam tracker data | Focussed revision and exam technique with Mr. Nines | Applied Maths or practice papers |
| (a) Hand methods |
| (b) Machine methods |
| (c) Combining/forming materials |
| (d) Computer-aided manufacture |
| (e) Work with tools and equipment |
| (f) Work with materials, components |
| **4 Industrial & commercial practice** | <http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-3/Design%20and%20Innovation/Eng/eduqas/Processes%20Industrial%20and%20Commercial%20Practice.pdf>  <http://www.technologystudent.com/>  <https://www.bbc.com/bitesize/examspecs/z4nfwty>  <http://www.textileshotline.co.uk/>  <http://www.julieboyd.co.uk/dt-textiles-2/website-for-students-dt.html> |
| (a) Manufacturing industry |
| (b) Manufacturing systems |
| (c) Stages of production |
| (d) Detailed manufacturing methods |
| (e) Management systems |
| (f) Safe working practices |
| (g) Industrial methodology |
|  | **5 Product analysis and systems** | <http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-3/Design%20and%20Innovation/Eng/eduqas/Product%20Analysis%20and%20Systems.pdf>  <http://www.technologystudent.com/>  <https://www.bbc.com/bitesize/examspecs/z4nfwty>  <http://www.textileshotline.co.uk/>  <http://www.julieboyd.co.uk/dt-textiles-2/website-for-students-dt.html> | Practice questions with Miss. Williams  Individual focus based on exam tracker data | Focussed revision and exam technique with Mr. Nines | Applied Maths or practice papers |
| (a) Design and production |
| (b) Form and function |
| (c) Trends & influences on design |
| (d) Intellectual Property & Standards |
| (e) Systems and sub-systems |
| (f) Control systems |
| (g) The use of ICT |
| (h) Issues when designing |
| (i) Systems analysis |
| (j) ICT when planning |
| (k) ICT when designing and making |
|  | 6 Human responsibility | <http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-3/Design%20and%20Innovation/Eng/eduqas/Human%20Responsibility.pdf>  <http://www.technologystudent.com/>  <https://www.bbc.com/bitesize/examspecs/z4nfwty>  <http://www.textileshotline.co.uk/>  <http://www.julieboyd.co.uk/dt-textiles-2/website-for-students-dt.html> | Practice questions with Miss. Williams  Individual focus based on exam tracker data | Focussed revision and exam technique with Mr. Nines | Applied Maths or practice papers |
| (a) Service to the customer |
| (b) Regulatory frameworks |
| (c) Risk assessment procedures |
| (d) Values in design solutions |
| (e) Forms of energy |
| (f) Responsibilities when designing |
| (g) Quality (of the product) |
| (h) Quality (human processes) |
| 7 Public interaction | <http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-3/Design%20and%20Innovation/Eng/eduqas/Public%20Interaction.pdf>  <http://www.technologystudent.com/>  <https://www.bbc.com/bitesize/examspecs/z4nfwty>  <http://www.textileshotline.co.uk/>  <http://www.julieboyd.co.uk/dt-textiles-2/website-for-students-dt.html> |
| (a) Innovation in the market |
| (b) Researching the market |
| (c) Selling the product |
| (d) Diffusion of products |
| (e) Researching market/client needs |
| (f) Determine product marketability |
| (g) Evaluate products |

Accessing past papers and mark schemes is an excellent way of revising what you know and testing your application of knowledge. When using past papers it is best to use papers for the course you are doing. However, all past papers test the same knowledge so using paper from different exam boards is just as useful.

To access past papers.

EDUQAS: <https://www.eduqas.co.uk/qualifications/qualification-resources.html?subject=DesignandTechnology&level=asaLevel&pastpaper=true>

WJEC: <https://www.wjec.co.uk/students/past-papers/>

OCR: <https://ocr.org.uk/qualifications/past-paper-finder/>

AQA: <https://www.aqa.org.uk/find-past-papers-and-mark-schemes>

EDEXCEL: <https://qualifications.pearson.com/en/support/support-topics/exams/past-papers.html>