

A level Design and Technology: Product Design

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**
contingency

March 23rd – April 3rd: Major project assessment and

May 5th 2020: Major Project submission of marks deadline

Focused plan for February formal mock examination

Week Commencing 6 th Jan 2020			Web links and resources
Time and date	Teacher	Topic	
Tuesday Period 2:	WAI	EXAM - BASELINE - FIBRES AND FABRICS.	
Thursday Period 1	SWS	Processes - Templates, mock ups, scaling, pattern language, joining; seams. Laminating fabrics, blended fibres, quilting and felting.	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rId=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwtv http://www.technologystudent.com/

			https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Thursday Period 2	SWS	CAM (CNC Miller - block print) CNC Embroidery. Advantages and Disadvantages. Selecting tools and components.	http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Week Commencing 13 th Jan 2020			
Monday Period 4	SWS	Production Methods, Primary and secondary processing and sourcing materials. (pg 12 of spec)	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rId=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Tuesday Period 1	SWS	Quality Control Flowcharts, Input, output and processing (pg 19 of spec)	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rId=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Tuesday Period 2	WAI	EXAM - PROCESS, CAD, PRODUCTION METHODS AND QUALITY CONTROL	

Thursday Period 1	SWS	Fabric Finishes (Pg 15 of spec)	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?riid=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwtv http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Thursday Period 2	SWS	Modern Materials (Pg 14 of spec)	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?riid=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwtv http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Week Commencing 20 th Jan 2020			
Time and date	Teacher	Topic	
Monday Period 4	SWS	Seams Practical - samples to be created with applications to products considered. Pupils MUST be able to recall the process of chosen seams independently.	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?riid=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwtv http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Tuesday Period 1	SWS	Quilting and Patchwork practical samples. Pupils MUST be able to	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?riid=1077

		recall the process of both independently.	http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAalseywkrkohcBaiqkzE
Tuesday Period 2:	WAI	EXAM MODERN MATERIALS AND FINISHES	
Thursday Period 1	SWS	Legislation, risk assessment, market pull and technology push, BSI, ISO and health and safety	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rId=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAalseywkrkohcBaiqkzE
Thursday Period 2	SWS	Planning - Gaant Charts and Man Specification	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rId=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAalseywkrkohcBaiqkzE
Week Commencing 27 th Jan 2020			
Monday Period 4	SWS	Mock paper review and target setting including DIRT tasks	

Tuesday Period 1	RNS	Ergonomics and Anthropometrics	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rliid=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwtty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaigkzE
Tuesday Period 2	RNS	Ergonomics and Anthropometrics	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rliid=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwtty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaigkzE
Thursday Period 1	SWS	Industrial and Commercial practices – global production – Social, Moral and Cultural Issues	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rliid=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwtty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaigkzE
Thursday Period 2	SWS	Mock paper review and target setting including DIRT tasks	
Week Commencing 3 rd Feb 2020			

Time and date	Teacher	Topic	
Monday Period 4	SWS	Fabric construction and Yarns	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rId=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Tuesday Period 1	SWS	MOP UP FIBRES AND FABRICS ISSUES	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rId=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Tuesday Period 2:	WAI	EXAM - Mini Mock	
Thursday Period 1	SWS	Mock paper review and target setting including DIRT tasks	
Thursday Period 2	SWS	Product analysis	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rId=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwty http://www.technologystudent.com/

			https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaigkzE
Week Commencing 10 th Feb 2020			
Monday Period 4	SWS	Final Revision	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rId=1077 http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/index.html https://www.bbc.co.uk/bitesize/examspecs/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaigkzE
Tuesday Periods 1, 2 and 3	IPE	Full 3 hour mock for year 13 students	
		Full 2.5 hour AS paper for year 12 students	

Overall content map and weblinks

Focus area for revision	Weblinks
Applied Mathematics	http://resource.download.wjec.co.uk.s3.amazonaws.com/vtc/2016-17/16-17_1-4/website/media/eduqas-dandt-maths.pdf
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
(a) Principles of designing	http://www.technologystudent.com/despro_flash/iterative1.html
(b) Research techniques	https://searchingforstyle.com/2014/11/fashion-101-how-to-do-fashion-design-research/
(c) Analysis of the problem	
(d) Problem solving strategies	
(e) Quantitative and qualitative testing	<p>Quantitative : Measurement of specific amplitude, level, or quantity of a material, output, or product to evaluate the operational characteristics of an item.</p> <p>Read more: http://www.businessdictionary.com/definition/quantitative-testing.html</p>

	<p>Qualitative: Associated with the subjective quality of a thing or phenomenon, such as feel, taste, expertise, image, leadership, reputation.</p> <p>Read more: http://www.businessdictionary.com/definition/qualitative.html</p>
(f) Ergonomics and anthropometrics	http://www.technologystudent.com/despro_flash/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
(a) Materials and their application	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
(b) Working characteristics of materials	http://www.technologystudent.com/
(c) Materials with specific properties	https://www.bbc.com/bitesize/examspecs/z4nfwtu - although it's intended for GCSE it's still useful
(d) Modern material technology	
(e) Materials for specific requirements	For Textiles students
(f) Choice of finishes	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
(g) Components and their application	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
(h) Safe working practices	https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rId=1103
(i) Work with materials & components	http://www.textileshotline.co.uk/
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
(a) Hand methods	
(b) Machine methods	
(c) Combining/forming materials	http://www.technologystudent.com/
(d) Computer-aided manufacture	
(e) Work with tools and equipment	https://www.bbc.com/bitesize/examspecs/z4nfwtu

(f) Work with materials, components	http://www.textileshotline.co.uk/
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
(a) Manufacturing industry	
(b) Manufacturing systems	http://www.technologystudent.com/
(c) Stages of production	
(d) Detailed manufacturing methods	https://www.bbc.com/bitesize/examspecs/z4nfwtv
(e) Management systems	
(f) Safe working practices	http://www.textileshotline.co.uk/
(g) Industrial methodology	http://www.julieboyd.co.uk/dt-textiles-2/website-for-students-dt.html
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
(a) Design and production	
(b) Form and function	http://www.technologystudent.com/
(c) Trends & influences on design	https://www.bbc.com/bitesize/examspecs/z4nfwtv
(d) Intellectual Property & Standards	http://www.textileshotline.co.uk/
(e) Systems and sub-systems	
(f) Control systems	
(g) The use of ICT	http://www.julieboyd.co.uk/dt-textiles-2/website-for-students-dt.html
(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
(a) Service to the customer	
(b) Regulatory frameworks	
(c) Risk assessment procedures	http://www.technologystudent.com/
(d) Values in design solutions	
(e) Forms of energy	https://www.bbc.com/bitesize/examspecs/z4nfwtv
(f) Responsibilities when designing	http://www.textileshotline.co.uk/
(g) Quality (of the product)	
(h) Quality (human processes)	http://www.julieboyd.co.uk/dt-textiles-2/website-for-students-dt.html
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
(a) Innovation in the market	
(b) Researching the market	
(c) Selling the product	

(d) Diffusion of products	http://www.technologystudent.com/
(e) Researching market/client needs	https://www.bbc.com/bitesize/examspecs/z4nfwty
(f) Determine product marketability	http://www.textileshotline.co.uk/
(g) Evaluate products	http://www.julieboyd.co.uk/dt-textiles-2/website-for-students-dt.html

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>