A level Design and Technology: Product Design

Year 13 revision plan

Key dates

Examinations

Formal mock examination 1: Jan 20th 2020 – Feb 14th 2020

Formal mock examination 2: April 20th – June 4th: Final examination preparation and revision

Final external examination: **Friday 5th June 2020 9.00am**
contingency

Major Project

Feb 14th 2020 – Major project review submission deadline

March 20th 2020 – Major project agreed deadline

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

May 5th 2020: Major Project submission of marks deadline

Focussed plan for February formal mock examination

Week Commencing 6th Jan 2020			Web links and resources
Time and date	Teacher	Topic	
Tuesday Period 2:	RNS	Natural and Manufactured Timber	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/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Thursday Period 1	RNS	Ferrous and Non-Ferrous Metals	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/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Thursday Period 2	MES	Mathematics Practice paper	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 13th Jan 2020			
Monday Period 4	RNS	Thermoforming and Thermosetting Polymers	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/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Tuesday Period 1	RNS	Smart and Modern Materials	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/z4nfwty

			http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Tuesday Period 2	RNS	Adhesives	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/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Thursday Period 1	RNS	Application of materials practice questions	
Thursday Period 2	MES	Application of Materials themed mock practice paper 1	
Week Commencing 20th Jan 2020			
Time and date	Teacher	Topic	
Monday Period 4	RNS	Mock paper review and target setting including DIRT tasks	
Tuesday Period 1	RNS	Quality Assurance and Quality Control	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

		Methods of controlling quality during making CAD/CAM/CNC	https://www.bbc.co.uk/bitesize/examspecs/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Tuesday Period 2:	RNS	Paper and Board	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/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Thursday Period 1	RNS	Environmental Awareness and Health and Safety	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/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Thursday Period 2	MES	Application of Materials themed mock practice paper 2	
Week Commencing 27th Jan 2020			
Monday Period 4	RNS	Mock paper review and target setting including DIRT tasks	
Tuesday Period 1	RNS	Principles of Design Theory	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/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Tuesday Period 2	RNS	Industrial and Commercial practices – Natural and Manufactured Timber	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/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Thursday Period 1	RNS	Industrial and Commercial practices – Ferrous and Non-Ferrous metals	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/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Thursday Period 2	MES	Application of Materials themed mock practice paper 3	
Week Commencing 3rd Feb 2020			
Time and date	Teacher	Topic	

Monday Period 4	RNS	Mock paper review and target setting including DIRT tasks	
Tuesday Period 1	RNS	Industrial and Commercial practices – Thermoforming and Thermosetting plastics	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/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Tuesday Period 2:	RNS	Scales of Production	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/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Thursday Period 1	RNS	Product Analysis	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/z4nfwty http://www.technologystudent.com/ https://www.focuselearning.co.uk/u/972/ropwoahrkkAvAtAlseywkrkohcBaiqkzE
Thursday Period 2	MES	Principles of Design Theory themed mock practice paper	

Week Commencing 10th Feb 2020			
Monday Period 4	RNS	Full content review	
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_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?rlid=1103 http://www.textileshotline.co.uk/
(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/
(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/
(a) Manufacturing industry	
(b) Manufacturing systems	
(c) Stages of production	
(d) Detailed manufacturing methods	
(e) Management systems	
(f) Safe working practices	

(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 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) 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
(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