

	Year 12 Core Skills Content	Year 12 Project work	Year 13 Skills Content	Year 13 Project work
1 WB 6.9	Course Introduction inc. assessment methods and points	Overview of bridging tasks—recap expectations— <ul style="list-style-type: none"> <li>Observational drawing and other drawing techniques.</li> <li>Experimenting with a new modelling techniques.</li> <li>Recording ideas using drawing/photography etc.</li> </ul>	Evidencing CAD files—display techniques	Cutting lists submitted and final testing of processes where required. Checking completion of manufacture plans Improving of development work based on feedback
2 WB 13.9	Objectified video and essay task	Further design within bridging tasks <a href="https://youtu.be/iVy0qGqmKFU">https://youtu.be/iVy0qGqmKFU</a>	Evidencing CAD files—display techniques	Preparation of materials and processes for manufacture Improving of development work based on feedback
3 WB 20.9	Metal working introduction (soldering) and design task (AB) (AO2). Recording of the process (AO3)	Simple modelling within bridging tasks	Evidencing of manufacturing (material preparation) in the portfolio.	Shaping and forming of final products inc. CAD/CAM Improving of planning work based on feedback
4 WB 27.9	Design Movements overview	Individual feedback on bridging tasks before final hand-in	Evidencing of manufacturing (material preparation) in the portfolio.	Shaping and forming of final products inc. CAD/CAM Improving of planning work based on feedback
5 WB 4.10	Teacher led Identification of major art movements and contextualise alongside significant historical events – this could be limited to the last 100 years. Identify artists/designers/practitioners relevant to chosen specialism within this. Go through sources of inspiration and documenting—inc. Observational drawing and other drawing techniques. <a href="http://www.Behance.net">Wwww.Behance.net</a> <a href="http://www.design-technology.info/designers/default.htm">http://www.design-technology.info/designers/default.htm</a> <a href="https://www.technologystudent.com/despro_flash/Designer1.html">https://www.technologystudent.com/despro_flash/Designer1.html</a> <a href="https://designmuseum.org/design">https://designmuseum.org/design</a> <a href="https://designmuseum.org/designers">https://designmuseum.org/designers</a>	Bridging tasks final submission. Introduction to ‘Design Movements in the Frame’ task. <i>This project will support students to</i> <ul style="list-style-type: none"> <li>identify their own areas of interests</li> <li>develop individual skills</li> <li>identify and experiment with relevant media and techniques</li> <li>identify areas to develop</li> </ul>	Evidencing of manufacturing (shaping materials) in the portfolio.	Shaping and forming of final products inc. CAD/CAM
6 WB 11.10	Observing and Recording—through Product Analysis—focusing on function, form, materials Recording from observation (drawing techniques) <a href="https://www.youtube.com/watch?v=K9N0nYRPSI4">https://www.youtube.com/watch?v=K9N0nYRPSI4</a> Select three pieces of work by different designers and annotate them with your opinion. <b>FINAL SUBMISSION OF BRIDGING TASKS BASED ON FEEDBACK</b>	Mind mapping of brief / theme Students to choose a Design movement or theme— <a href="https://www.scoop.it/topic/timelines-for-art">https://www.scoop.it/topic/timelines-for-art</a> <a href="https://designmuseum.org/design">https://designmuseum.org/design</a>		Assembly and construction of products
7 WB 18.10	Wood working introduction (wood joints) (AO2) related to picture frame project—write up in sketchbook expected (AO3)	Further designer research—focusing on communication and manufacturing techniques— <a href="http://www.Behance.net">www.Behance.net</a>		Assembly and construction of products
<b>October Half Term</b>				
8 WB 1.11	Product Analysis—Manufacturing techniques focus <b>DATA DROP FOR YEAR 12—End of the week</b>	Drawing as a Response—Design ideas started a mixture of 2D—direct relation to shapes and forms researched. <a href="https://bashooka.com/inspiration/30-inspiring-product-design-concept-sketches/">https://bashooka.com/inspiration/30-inspiring-product-design-concept-sketches/</a> <a href="https://youtu.be/iVy0qGqmKFU">https://youtu.be/iVy0qGqmKFU</a> <a href="https://www.youtube.com/watch?v=7VUcZX4cULk&amp;feature=youtu.be">https://www.youtube.com/watch?v=7VUcZX4cULk&amp;feature=youtu.be</a> <a href="https://www.youtube.com/watch?v=1v7BtQWwOfc&amp;feature=youtu.be">https://www.youtube.com/watch?v=1v7BtQWwOfc&amp;feature=youtu.be</a> <b>DATA DROP FOR YEAR 12—End of the week</b>	Evidencing of manufacturing (shaping materials) in the portfolio.	Assembly and construction of products
9 WB 8.11	CNC Laser Engraving introduction(AO2) —techniques and experimentation—write up in sketchbook expected (AO3)	Design ideas continues—moving to 3D drawings and modelling. Input on 3D drawings and perspective <a href="https://www.youtube.com/watch?v=DyQL_G3IO7E">https://www.youtube.com/watch?v=DyQL_G3IO7E</a> <a href="https://www.youtube.com/watch?v=vD7gnZu8M6s">https://www.youtube.com/watch?v=vD7gnZu8M6s</a>	Evidencing of manufacturing (shaping materials) in the portfolio.	Bought in parts and surface finishing
10 WB 15.11	CAD introduction—Google sketchUp or Onshape <a href="https://youtu.be/022dqcoi05k">https://youtu.be/022dqcoi05k</a> —Intro to Sketchup <a href="https://youtu.be/0ay583JF7uk">https://youtu.be/0ay583JF7uk</a> —Learn Sketchup in 20 mins <a href="https://www.youtube.com/watch?v=pMWnsHpDIQE">https://www.youtube.com/watch?v=pMWnsHpDIQE</a> - Onshape tutorials link	CAD modelling of designs Maker pen rendering example— <a href="https://www.youtube.com/watch?v=MCIBxTDJlp0&amp;feature=youtu.be">https://www.youtube.com/watch?v=MCIBxTDJlp0&amp;feature=youtu.be</a>	Methods and aspects to consider in testing of final products—overview	Bought in parts and surface finishing
11 WB 22.11	CNC Router Introduction (AO2)—write up in sketchbook expected (AO3)	Wooden frame manufacturing	Evidencing of manufacturing (bought in parts and surface finishing) in the portfolio.	Testing and trialing of products
12 WB 29.11	Exporting rendering and technical drawings from CAD files. <a href="#">Rendering a shoe in Photoshop</a> <a href="#">Link for Rendering example using Photoshop—</a>	Use of the laser cutter and engraver where possible for frames	Evidencing of manufacturing (bought in parts and surface finishing) in the portfolio.	Testing and trialing of products
13 WB 6.12	Vacuum Former and mould creation Introduction (AO2) —link to casting with cement also—write up in sketchbook expected (AO3)	Applying surface finishes and metal work elements to frames	Overview of evaluation methods and techniques <b>Year 13 Parents Evening</b>	Evaluation of product
14 WB 13.12	Introduction to major project—‘Lighting Forms’—Theme exploration. Students draft possible directions and briefs. Mind mapping exercise and mood board creation. <a href="https://www.retrobound.com/art-furniture">https://www.retrobound.com/art-furniture</a> - examples <a href="http://www.Behance.net">Wwww.Behance.net</a> - examples and background info <a href="https://www.bbc.co.uk/bitesize/clips/zpbxpv4">https://www.bbc.co.uk/bitesize/clips/zpbxpv4</a> —lamp design <a href="https://designaddict.com/">https://designaddict.com/</a> - Retro design shop <a href="https://alicefulton.wordpress.com/lighting-design/">https://alicefulton.wordpress.com/lighting-design/</a> Lighting designer journey	Finalizing outcomes in preparation for assessments—including sketchbook work		Evaluation of product
<b>Christmas Holidays</b>				
15 WB 3.1	Outline research areas and students prepare resources for adding to portfolio—for product analysis, designer research, theme imagery. <i>Homework—complete 4 - 5 pages of research over the holidays.</i>	<b>Completing practical outcomes, presentation photographs completed and working on new project research</b>	<b>Year 13 Mocks—Portfolio submission—marking of AO 1-3 Criteria's</b>	Modification and improvements (inc further CAD designs)
16 WB 10.1	Check through Christmas work on research. Recap of AO1—Develop ideas—as a continual response to research. Students to discuss and then write up a particular focus for the rest of their research—e.g. lighting and shadows, lighting and patterning, lighting and mood, lighting and work....	Further research undertaken (mood board and designer/product analysis) and individual consultations on research and direction completed. <a href="https://www.technologystudent.com/despro_flash/Designer1.html">https://www.technologystudent.com/despro_flash/Designer1.html</a>	<b>Year 13 Mocks—Portfolio submission—marking of AO 1-3 Criteria's</b>	Modification and improvements (inc further CAD designs) Improving of evaluation work based on feedback
17 WB 17.1	Focus product disassembly and Recording of Observations—encouraging and show how to draw out elements of a product being analysed and showing/photographing parts. Example of a light product analysis— <a href="https://www.youtube.com/watch?v=raBP2Hgc8KU">https://www.youtube.com/watch?v=raBP2Hgc8KU</a> <a href="https://technologystudent.com/joints_flash/office4.html">https://technologystudent.com/joints_flash/office4.html</a> —Product Analysis example task	In depth product analysis (AO3) to learn from manufacturing and construction techniques and joining of parts. <a href="https://www.instructables.com/workshop/lighting/projects/">https://www.instructables.com/workshop/lighting/projects/</a>		
18 WB 24.1	Material choices for designers and makers—factors to consider. Advantages/disadvantages of particular choices. <a href="http://www.mr-dt.com/">http://www.mr-dt.com/</a> - materials research	Completion of further product analysis and material research (AO2) / experimentation (e.g. surface finishes or construction techniques) <a href="http://www.mr-dt.com/">http://www.mr-dt.com/</a> - materials research		<b>Final Submission and marking of Portfolios - Including grading of AO's 1-4</b>
19 WB 31.1	Introduction to Practical Skill experimentation (AO2) that links with their possible direction—based on the skills from Term 1 and any additional areas (e.g. construction techniques). Students experiments with a wider range of shapes, more advanced techniques and incorporating the principles of lighting design. <b>DATA DROP FOR YEAR 12—End of the Week</b>	Practical Skill experimentation (AO2). <b>DATA DROP FOR YEAR 12—End of the Week</b>	<b>Year 13 Reports and Data—End of the week</b>	<b>Year 13 Reports and Data—End of the week</b>
20	Completion of practical skill experimentation	Completion of practical skill experimentation		Final Submission and marking of Portfolios

Year 12 Core Skills Content		Year 12 Project work	Year 13 Skills Content	Year 13 Project work
<b>Christmas Holidays</b>				
15 WB 3.1	Outline research areas and students prepare resources for adding to portfolio—for product analysis, designer research, theme imagery. <i>Homework—complete 4 - 5 pages of research over the holidays.</i>	<b>Completing practical outcomes, presentation photographs completed and working on new project research</b>	<b>Year 13 Mocks—Portfolio submission—marking of AO 1-3 Criteria's</b>	Modification and improvements (inc further CAD designs)
16 WB 10.1	Check through Christmas work on research. Recap of AO1—Develop ideas—as a continual response to research. Students to discuss and then write up a particular focus for the rest of their research—e.g. lighting and shadows, lighting and patterning, lighting and mood, lighting and work....	Further research undertaken (mood board and designer/product analysis) and individual consultations on research and direction completed. <a href="https://www.technologystudent.com/despro_fish/Designer1.html">https://www.technologystudent.com/despro_fish/Designer1.html</a>	<b>Year 13 Mocks—Portfolio submission—marking of AO 1-3 Criteria's</b>	Modification and improvements (inc further CAD designs) Improving of evaluation work based on feedback
17 WB 17.1	Focus product disassembly and Recording of Observations—encouraging and show how to draw out elements of a product being analysed and showing/photographing parts. Example of a light product analysis— <a href="https://www.youtube.com/watch?v=raBP2Hgc8KU">https://www.youtube.com/watch?v=raBP2Hgc8KU</a> <a href="https://technologystudent.com/joints_fish/office4.html">https://technologystudent.com/joints_fish/office4.html</a> —Product Analysis example task	In depth product analysis (AO3) to learn from manufacturing and construction techniques and joining of parts. <a href="https://www.instructables.com/workshop/lighting/projects/">https://www.instructables.com/workshop/lighting/projects/</a>		
18 WB 24.1	Material choices for designers and makers— factors to consider. Advantages/disadvantages of particular choices. <a href="http://www.mr-dt.com/">http://www.mr-dt.com/</a> - materials research	Completion of further product analysis and material research (AO2) / experimentation (e.g. surface finishes or construction techniques) <a href="http://www.mr-dt.com/">http://www.mr-dt.com/</a> - materials research		<b>Final Submission and marking of Portfolios - Including grading of AO's 1-4</b>
19 WB 31.1	Introduction to Practical Skill experimentation (AO2) that links with their possible direction—based on the skills from Term 1 and any additional areas (e.g. construction techniques). Students experiments with a wider range of shapes, more advanced techniques and incorporating the principles of lighting design. <b>DATA DROP FOR YEAR 12—End of the Week</b>	Practical Skill experimentation (AO2). <b>DATA DROP FOR YEAR 12—End of the Week</b>	<b>Year 13 Reports and Data—End of the week</b>	<b>Year 13 Reports and Data—End of the week</b>
20 WB 7.2	Completion of practical skill experimentation.	Documentation of practical skill experimentation—write-ups and further thoughts. (AO3)		Exam Pre-release given out and mind mapping of themes/direction
21 WB 14.2	Introduction to Research summary and Design brief completion—based on research findings. Design drawings introduction as a result of research. Homework—to complete a minimum of 4 pages of design ideas—sketches—linked to research imagery.	Research summary and Design Brief checking. Drafting design drawings—quick sketches (2D and 3D) and perspective drawings (AO1)	Exploration of how research methods and exam preparation	
<b>February Half Term</b>				
22 WB 28.2	Recap of communication methods and drawing strategies inc. 2D drawing, crating, isometric, and perspective. 3 videos on design ideas and rendering— <a href="https://www.youtube.com/watch?v=hdTTz6ZaCXs">https://www.youtube.com/watch?v=hdTTz6ZaCXs</a> <a href="https://www.youtube.com/watch?v=zUFqEez74lg">https://www.youtube.com/watch?v=zUFqEez74lg</a> <a href="https://www.youtube.com/watch?v=zUFqEez74lg">https://www.youtube.com/watch?v=zUFqEez74lg</a>	Design ideas created (AO1). Focus on Rendering of Designs— <a href="https://youtu.be/ZjfqWXuM-Ns">https://youtu.be/ZjfqWXuM-Ns</a> <a href="https://bashooka.com/inspiration/30-inspiring-product-design-concept-sketches/">https://bashooka.com/inspiration/30-inspiring-product-design-concept-sketches/</a>		
23 WB 7.3	Consultation of design work with individual students A focus on the quality of on-going annotation— <a href="https://www.youtube.com/watch?v=JCvW4NI9znE">https://www.youtube.com/watch?v=JCvW4NI9znE</a>	Design ideas created (AO1)		
24 WB 14.3	Modelling Techniques for design ideas covered—with modelling commencing after this. (AO1)	Modelling of design ideas (AO1)		
25 WB 21.3	Consultation of design work with individual students whilst modelling continues. (AO1) <b>Year 12 Parents Evening</b>	Modelling of design ideas (AO1) <b>Year 12 Parents Evening</b>		
26 WB 28.3	Techniques for documenting, analysing and evaluating modelling. (AO3) <a href="https://www.bbc.co.uk/bitesize/guides/zymtv9q/revision/1">https://www.bbc.co.uk/bitesize/guides/zymtv9q/revision/1</a>	Documenting, analysing and evaluating modelling (AO3)		
27 WB 4.4	Further design ideas created—possibility as a response to modelling and/or feedback. <i>Homework—to complete any further designs as necessary</i>	Summarising design ideas/modelling and planning for further development. <i>Homework—to complete any further designs as necessary</i>		
<b>Easter Holidays</b>				
28 WB 25.4	Summary of designs so far, introduction to further development—justification and development planning. (AO3) <i>Homework—to begin development of at least two design ideas.</i> <b>Year 12 Mocks—Design and Modelling marking</b>	Summarising design ideas/modelling and planning for further development. (AO3) <b>Year 12 Mocks—Design and Modelling marking</b>		
29 WB 2.5	Introduction to development—techniques, tips, examples, considerations. Also include further communication strategies—exploded drawings, technical drawings, cross sectional drawings. <b>Year 12 Mocks—Design and Modelling marking</b>	Development of a small number of designs. <b>Year 12 Mocks—Design and Modelling marking</b>		
30 WB 9.5	Group discussion on which designs they are taking forward—a chance for others to make observations and suggestions.	Development of a small number of designs.		
31 WB 16.5	<b>Related Study Introduction.</b> Resources given out towards this, including an example response. Students to draft out 2 or 3 possible titles and a plan for contents overall. <i>First draft due for completion on first week after Summer HT.</i>	Development of a small number of designs.		
32 WB 23.5	Further modelling or practical testing as part of development. <b>Year 12 Data Drop and Reports due straight after Half Term</b>	Practical testing and/or modelling toward initial development. <b>Year 12 Data Drop and Reports due straight after Half Term</b>		
<b>Summer Half Term</b>				
33 WB 6.6	Further modelling or practical testing as part of development. <i>Homework—Completion of the development of a small number of designs.</i> <b>Year 12 Data Drop and Reports due</b>	Completion of further modelling or practical testing. <i>Homework—Completion of the development of a small number of designs.</i> <b>Year 12 Data Drop and Reports due</b>		
34 WB 13.6	<b>Taking in first draft of Related Study.</b> Students encouraged to explain which idea(s) will form part of their final choice for final development.	Final development of chosen design. Further modelling, practical testing and CAD. Individual consultations of final development choices and/or possible manufacture methods.		
35 WB 20.6	<b>Feedback of Related Study to individuals.</b> Go through expectations for the final development. Make links back to original research/themes.	Go through Exploded drawings— <a href="https://youtu.be/gr4V8Nr9Fal">https://youtu.be/gr4V8Nr9Fal</a> Final development of chosen design. Further modelling, practical testing and CAD. Individual consultations of final development choices and/or possible manufacture methods		
36 WB 27.6	Final development of chosen idea—focusing on possible materials, manufacture methods, dimensions, CAD/CAM.	Final development of chosen design. Further modelling, practical testing and CAD. Individual consultations of final development choices and/or possible manufacture methods		
37 WB 4.7	Explanation of Planning for Manufacture and Quality Assurance/ Health and Safety aspects. Individual consultation of manufacture and construction methods with students.	Completion of final development. Students to move on to manufacture planning and any required CAD files to support manufacture.		
38 WB 11.7	Explanation of CAD file preparation and students can complete manufacture planning. Individual consultation of manufacture and construction methods with students.	Manufacture planning. CAD files completed as required. Individual consultation of manufacture and construction methods with students.		
39 WB 18.7	Cutting lists and CAD files prepared. Teaching on how to evidence CAD files and their use within the portfolio to progress a design. <i>Homework—general completion and update of project work based on feedback give.</i>	Manufacture planning. CAD files completed as required. Individual consultation of manufacture and construction methods with students. <i>Homework—general completion and update of project work based on feedback give.</i>		