

Year 9 Design & Technology - Architecture CAD

Learning Programme 3

<p>The LORIC skill focus for this LP is: RESILIENCE</p> <p>The Moral Virtues focus for this LP are: RESPECT and JUSTICE</p> <p>Respect - treat others how you would wish to be treated yourself.</p> <p>Justice - our College rules are fair and reasonable.</p> <p>What will I be learning about in this Learning Programme?</p> <p>To analyse the work of past and present designers. To communicate building design ideas in 2D and 3D, using sketches and 3D CAD software.</p> <p>Where have I seen this learning before?</p> <p>In Year 7 and 8 you will have developed your 2D and 3D drawing skills. You will have used 2D CAD software in Year 8 to design a Night Light.</p> <p>What could I use it for?</p> <p>You will apply these CAD skills extensively when designing and modelling your ideas for your GCSE Design and Technology non-examined assessment.</p>	<p>Literacy:</p> <ul style="list-style-type: none"> • Capital letters must be used at the start of sentences and for the first letter of proper nouns • Full stops must be used at the end of a sentence • Question marks must be used at the end of a question • Apostrophes should only be used for possession or omission • Days of the week and months must be spelled correctly • Key words must be spelled correctly
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In LP3.1, I will know:	06/01/25 - (WK 2)	Key Vocabulary	Homework
what style of buildings & facilities Ellesmere Port currently has; how to present a technical drawing in 2D orthographic projection.		Orthographic	Research task on local architecture.

In LP3.2, I will know:	13/01/25 - (WK 1)	Key Vocabulary	Homework
how to convert an orthographic drawing into an isometric projection.		Isometric	Isometric drawing task.

In LP3.3, I will know:	20/01/25 - (WK 2)	Key Vocabulary	Homework
how to draw the 3D graphical techniques of one point and two point perspective; the difference between computer aided design (CAD) and traditional drawing methods.		Perspective	One point perspective drawing task.

In LP3.4, I will know:	27/01/25 - (WK 1)	Key Vocabulary	Homework
the work of past and present designers; the timeline of important design movements.		Architecture	Two point perspective drawing task.
Extended Task.			

In LP3.5, I will know:	03/02/25 - (WK 2)	Key Vocabulary	Homework
how to apply a range of CAD tools in SketchUp.		Orbit	Create a floor plan and calculate the area.

In LP3.6, I will know:	10/02/25 - (WK 1)	Key Vocabulary	Homework
how to use 3D CAD to render my building using a variety of different materials.		Presentation	Convert orthographic drawing to isometric drawing.

LP3 RLW, I will:	24/02/25 - (WK 2)	Key Vocabulary	Homework
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.		Revision strategy	Revise for summative assessment.

In LP3.7, I will know:	03/03/25 - (WK 1)	Key Vocabulary	Homework
how to present my architectural building project to my peers for feedback; how to evaluate my final design and identify improvements.		Evaluation	Use knowledge organiser to complete a learning review task.
Extended Task.			

Resources to support learning:
The following websites contain extensive revision material and information to increase design & technology subject knowledge: www.technologystudent.com ; www.mr-dt.com ; www.bbc.co.uk/bitesize .

FFET Award Challenge for this Learning Programme:
Complete a two minute oral presentation to showcase your building design to your peers.

