Year 9   Design & Technology - Architecture CAD
Learning Programme 5

The LORIC skill focus for his LP is: COMMUNICATION.

The Moral Virtues focus for this LP are: COURAGE and HUMILITY.

Courage - Acting with bravery and overcoming fears.

Humility - Having a modest view of oneself.

What will I be learning about in this Learning Programme?

To analyse the work of past and present designers. To communicate building design ideas in 2D and 3D, using sketches and 3D CAD software.

Where have I seen this learning before?

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.

What could I use it for?

You will apply these CAD skills extensively when designing and modelling your ideas for your GCSE Design and Technology non-examined assessment.

Literacy:
- 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

	Key Vocabulary	Homework
In LP5.1, I will know: 12/05/25 - (WK 1) 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 LP5.2, I will know: 19/05/25 - (WK 2) how to convert an orthographic drawing into an isometric projection.	Isometric	Isometric drawing task.
LP5 RLW, I will: 02/06/25 - (WK 1) review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.	Revision	Use revision techniques to prepare for the summative assessment.
In LP5.3, I will know: 09/05/25 - (WK 2) 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. Extended Task.	Perspective	One point perspective drawing task.
In LP5.4, I will know: 16/06/25 - (WK 1) the work of past and present designers; the timeline of important design movements.	Architecture	Two point perspective drawing task.
In LP5.5, I will know: 23/06/25 - (WK 2) how to apply a range of CAD tools in SketchUp.	Orbit	Create a floor plan and calculate the area.
In LP5.6, I will know: 30/06/25 - (WK 1) how to use 3D CAD to render my building using a variety of different materials. Extended Task.	Presentation	Convert orthographic drawing to isometric drawing.
In LP5.7, I will know: 07/06/25 - (WK 2) 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.

PRT Task 1

PRT Task 2

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.