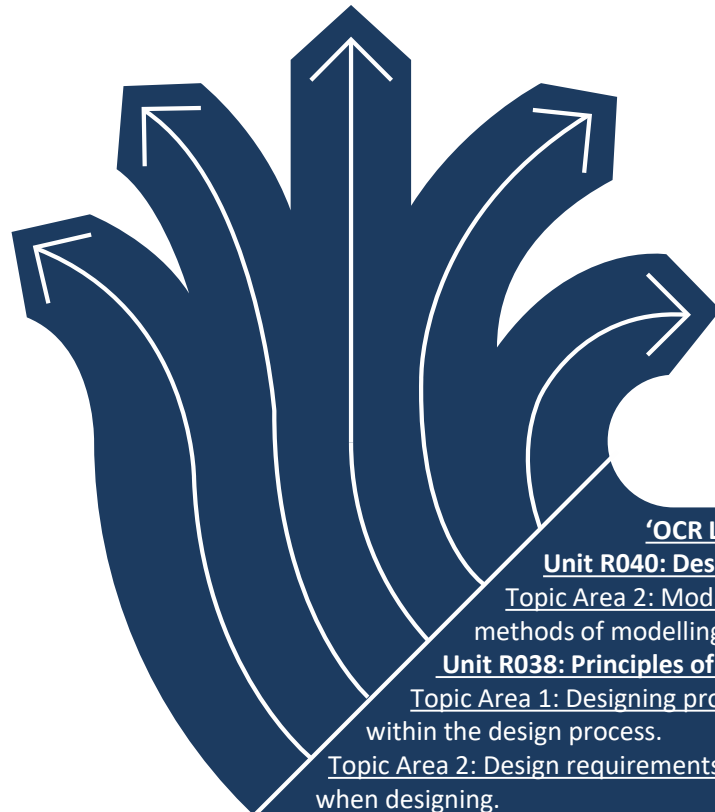


CURRICULUM MAP

KS4



'OCR Level1/Level2 Cambridge National in Engineering Design'

Unit R040: Design, evaluation and modelling (cont)

Topic Area 2: Modelling design ideas– Study of, and assignment work in relation to, virtual and physical methods of modelling.

Unit R038: Principles of engineering design

Topic Area 1: Designing processes - Study of different design strategies and the activities carried out within the design process.

Topic Area 2: Design requirements- Study of influences and considerations that need to be taken into account when designing.

Topic Area 3: Communicating design outcomes- Study of the types of drawings, (including CAD) used when designing and the conventions used when producing these drawings.

Topic Area 4: Evaluating design ideas- Study of the methods for evaluating design ideas and outcomes.

YEAR
11

YEAR
10

'OCR Level1/Level2 Cambridge National in Engineering Design'

Unit R039: Communicating designs

Topic Area 1: Manual production of freehand sketches – Study of, and assignment work in relation to, producing sketches of design ideas.

Topic Area 2: Manual production of engineering drawings– Study of, and assignment work in relation to, producing engineering drawings by hand.

Topic Area 3: Use of computer aided design (CAD) – Study of, and assignment work in relation to, producing 3D CAD models of a design idea.

Unit R040: Design, evaluation and modelling

Topic Area 1: Product evaluation– Study of, and assignment work in relation to, product analysis and product disassembly.



MEDEN
SCHOOL