

# Engineering Curriculum Map (Year 10)

OCR [2022 – 2023]



End of Unit  
Assessment

**R039: NEA**  
Communicating  
designs.  
  
Working on  
assessment brief

**R038: User testing**  
  
To able to explain  
quantitative  
testing and user  
testing

**R038: Modelling, and  
measuring**  
  
Modelling methods  
to be evaluated.  
Explain measuring  
devices when  
completing product  
evaluation

**R038: QFD**  
  
Explain ranking  
matrix, evaluate  
using the QFD  
method

**R038: Engineering  
product design**  
  
Evaluate designs;  
Compare the  
design brief,  
produce a simple  
model

Year 10– Term 3

End of Unit  
Assessment

End of Unit  
Assessment

**R038: Sketching  
and drawing  
CAD**  
  
Compare hand  
sketches to CAD  
drawings

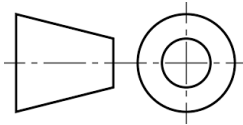
**R038: Drawing  
abbreviations**  
  
Identify drawing  
abbreviations, and  
explain  
mechanical  
features

**R039: Drawing  
activities**  
  
To successfully complete  
assembly drawings,  
sectional drawings, and  
layout drawings by hand  
and CAD

**R039: CAD  
drawing**  
  
Use more  
detailed CAD  
commands

**R039: NEA**  
Communicating  
designs.  
Working on  
assessment  
brief

Year 10 – Term 2



**R039:  
Sketching  
designs**

**R039: Types of  
drawing**  
  
Develop skills and  
understanding in  
freehand, orthographic,  
oblique, and isometric  
drawings with  
understanding of  
symbols

**R038: Production  
methods and  
standards**  
  
Explore manufacturing  
process and costs.  
Understand  
British/international  
standards

**R038: Modelling**  
  
Develop skills in  
modelling using  
card and paper.  
Explore the role of  
virtual modelling

**R038: Production  
and specification**  
  
To use ACCESSFM,  
identify the roles of the  
designer and client –  
Produce a design  
specification

**R038: Design  
strategies**  
  
To understand  
sustainable design,  
ergonomics and  
anthropometrics and  
data collection

**R038: Designing  
processes**  
  
Students will  
identify linear,  
iterative, user  
centred, and  
inclusive design

Year 10 – Term 1

