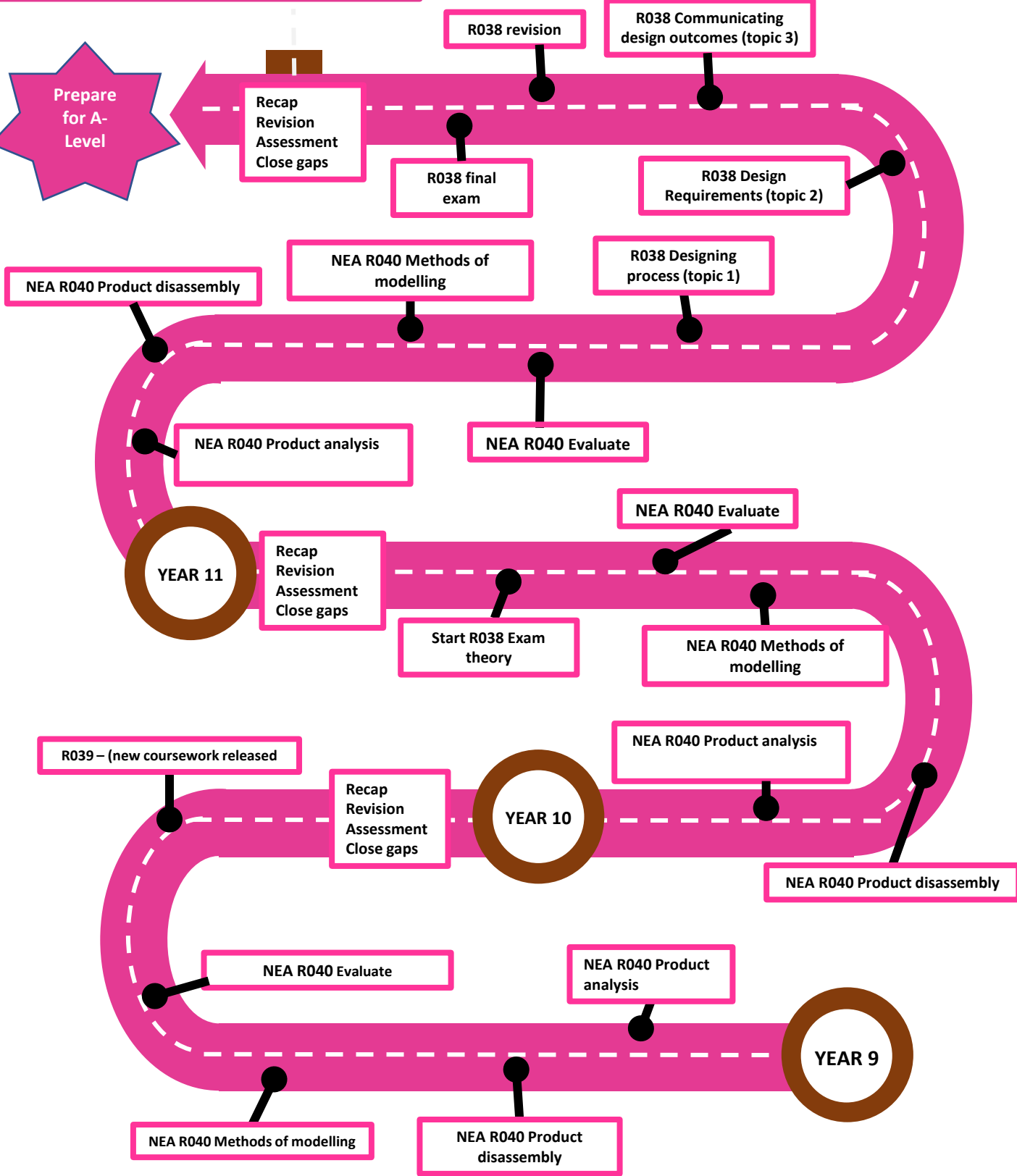


YEAR 9- 11 DESIGN ENGINEERING

Destinations: Design Technology or Engineering design at, A Level and university, Level 3 Engineering
Career in STEM, CAD CAM Design, Engineering and technology



YEAR 9 DESIGN ENGINEERING



Year 10

Revise
Assess
Close gaps

NEA released
RO39

Submission

May half term –

Sketches

Final submission
and Mop ups

Physical modelling
continued

Testing

Feb half term

Testing

Evaluation

Apr end of term

Assembly notes

Virtual CAD

Planning of
Physical Model

Physical modelling

Manufacturing
guide

Virtual cad model
simulation and render

Dec end of term

Risk
assessment

Product disassembly

Virtual CAD

Oct Half Term

Document disassembly

CAD Practice (Fusion)

Rank matrix justification

Product analysis ACCESS
FM

RO40 NEA



START

Rank Matrix

Compare
Technical
Specification

YEAR 10 DESIGN ENGINEERING



Year 11

RO38 Exam prep TA1
1.2 Stages of the iterative design process,
and the activities carried out within each
stage of this cyclic approach

Submission

Revise
Assess
Close gaps

May half
term –

Physical
modelling
continued

Testing

RO38 Exam prep TA1
1.1 The stages involved
in design strategies

Final submission
and Mop ups

Feb half
term

Testing

Evaluation

Apr end of
term

Planning of
Physical Model

Assembly notes

Virtual CAD

Physical modelling

Manufacturing
guide

Virtual cad model
simulation and render

Risk
assessment

Product disassembly

Virtual CAD

Dec end of
term

Oct Half
Term

Document disassembly

CAD Practice (Fusion)

Rank matrix justification

Product analysis ACCESS
FM

RO40 NEA

START

Compare
Technical
Specification

Rank Matrix



YEAR 11 DESIGN ENGINEERING

Cambridge National in Engineering Design
(Level 1/Level 2)

A Level
Design and Technology
(Level 3)

Apprenticeship
e.g. Design and Development Technician
(Level 3)

Cambridge Technicals
Engineering
(Levels 2 and 3)

T Level
Design and Development for Engineering and Manufacturing
(Level 3)

Destinations: Design Technology or Engineering design at, A Level and university
Career in STEM, CAD CAM Design, Engineering and technology

Year 12



Final exam

Revise
Assess
Close gaps

May half term –

Revision

Apr end of term

Revision

RO38 Exam prep 3.3

RO38 Exam prep 4.2

Revision

RO38 Exam prep 4.1

RO38 Exam prep 4.3

RO38 Exam prep 3.2

RO38 Exam prep 3.1

RO38 Exam prep 2.2

RO38 Exam prep 1.2.2

RO38 Exam prep 1.1

Feb half term

RO38 Exam prep 2.3

RO38 Exam prep 2.1

RO38 Exam prep 1.2

Evaluation

Virtual CAD

Virtual cad model simulation and render

Manufacturing guide

Physical model

Dec end of term

Oct Half Term

Document disassembly

Assembly notes

Planning of Physical Model

Testing

Product disassembly

Rank matrix justification

Product analysis ACCESS FM

RO40 NEA

START

Risk assessment

Compare Technical Specification

Rank Matrix

