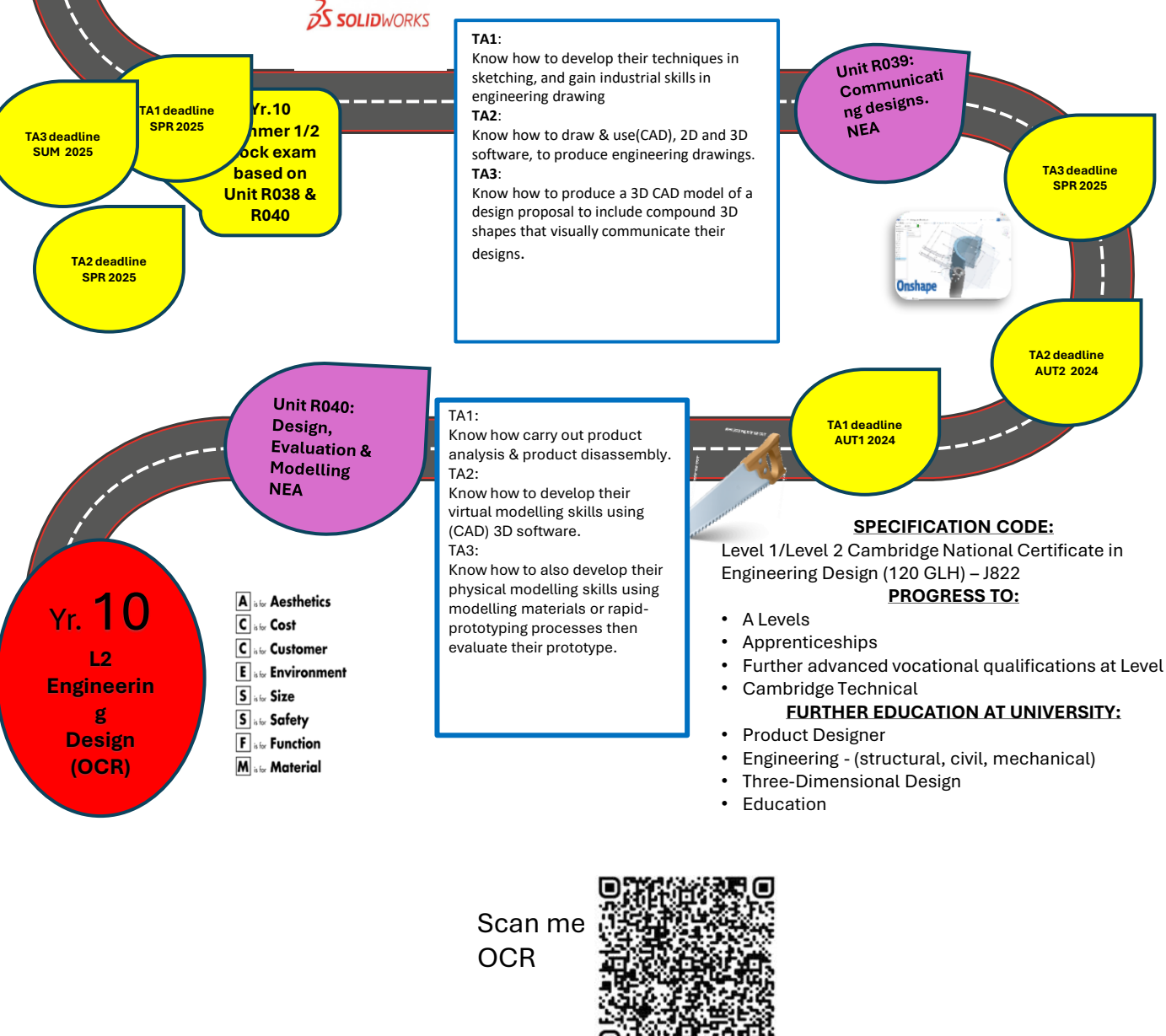
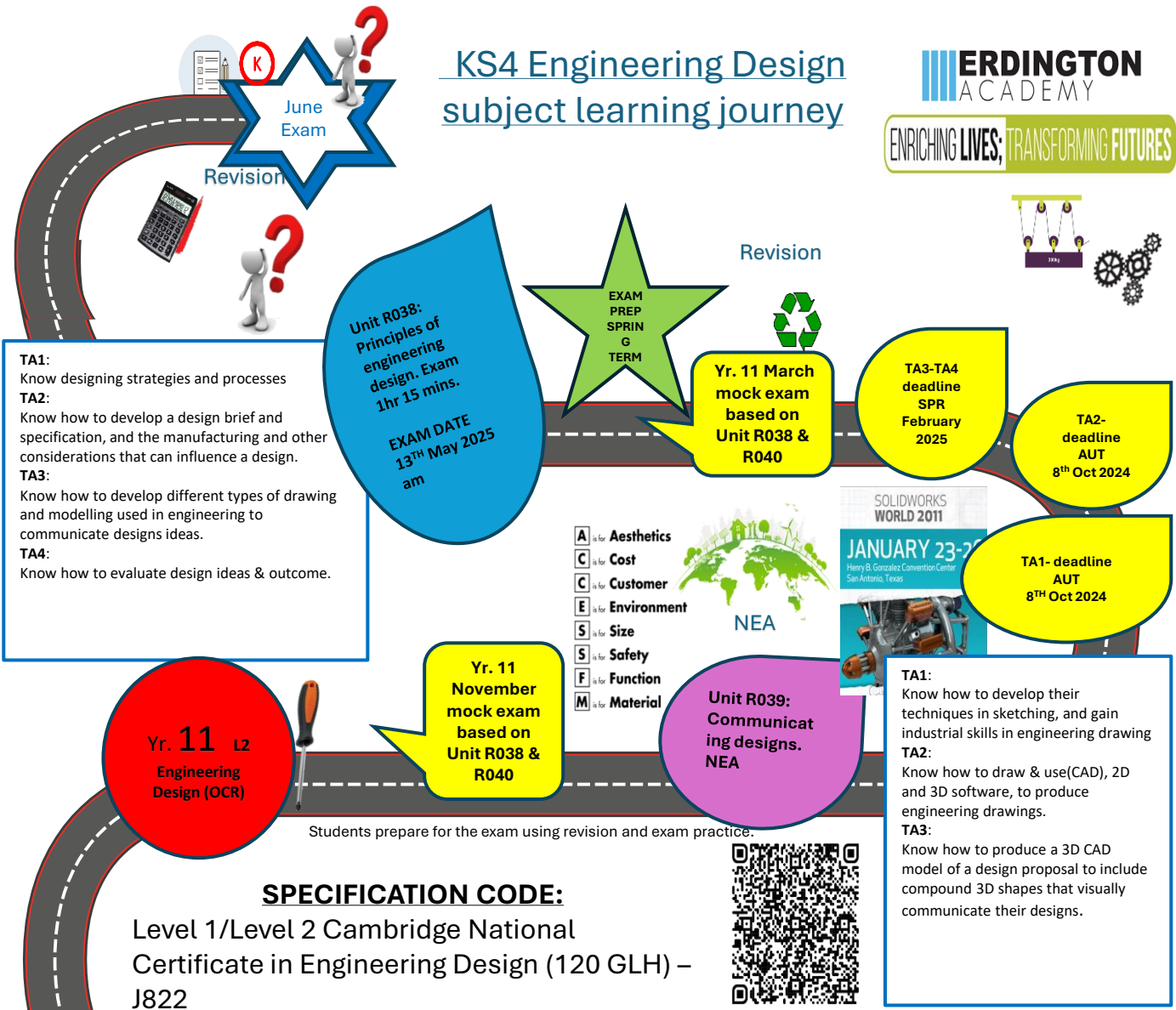


KS4 Engineering Design subject learning journey



TA1:
Know designing strategies and processes
TA2:
Know how to develop a design brief and specification, and the manufacturing and other considerations that can influence a design.
TA3:
Know how to develop different types of drawing and modelling used in engineering to communicate designs ideas.
TA4:
Know how to evaluate design ideas & outcome.

- A is for Aesthetics
- C is for Cost
- C is for Customer
- E is for Environment
- S is for Size
- S is for Safety
- F is for Function
- M is for Material

TA1:
Know how to develop their techniques in sketching, and gain industrial skills in engineering drawing
TA2:
Know how to draw & use(CAD), 2D and 3D software, to produce engineering drawings.
TA3:
Know how to produce a 3D CAD model of a design proposal to include compound 3D shapes that visually communicate their designs.

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TA1:
Know how carry out product analysis & product disassembly.
TA2:
Know how to develop their virtual modelling skills using (CAD) 3D software.
TA3:
Know how to also develop their physical modelling skills using modelling materials or rapid-prototyping processes then evaluate their prototype.

SPECIFICATION CODE:
Level 1/Level 2 Cambridge National Certificate in Engineering Design (120 GLH) - J822
PROGRESS TO:

- A Levels
 - Apprenticeships
 - Further advanced vocational qualifications at Level 3
 - Cambridge Technical
- FURTHER EDUCATION AT UNIVERSITY:**
- Product Designer
 - Engineering - (structural, civil, mechanical)
 - Three-Dimensional Design
 - Education