

Teaching and Learning Content: Engineering
Year Group: 10
Half Term 4



Unit R038: Sketching and drawing, CAD

Unit R039: Producing CAD models (NEA Assessment (working on))

Home Learning:

Students are expected to complete a homework research project over the half term linking to their classwork

Key Questions:

- How do I use computer aided design (CAD) programs?
- How do I produce a 3D CAD model?
- What is a working drawing?
- How do I communicate design outcomes?

Diagnosis

- Retrieval activities
- Mini whiteboard activities

Therapy

- Teacher Demonstration
- DIRT tasks
- Peer to peer support
- Whole class feedback

Students will:

- Be able to produce a 3D CAD model of a design proposal
- Be able to produce a 3D CAD model of a design proposal including compound 3D shapes
- Be able to communicate design outcomes
- Be able to describe influences on engineering product design

Testing

- Students will be tested on the practical skills
- Students will write critically about the work produced