

N5 Engineering Science

C ontext and Challenge

An introduction to what engineering is, the different types of engineering, career paths and how engineers solve problems. You will be tested at every topic.

The topics we will cover are:

1. Contexts and Systems
2. Energy

M echanisms and Structures

We will look at how machines move, and how engineers use them to make our lives easier.

We also will look at different types of structures and buildings, how engineers make them safe. You will be tested at every topic.

The topics we will cover are:

6. Mechanisms and Structures
7. Pneumatics

A ssignment

The assignment allows you to draw your knowledge across the course and apply it to both a practical or theoretical assignment.

The Assignment is based on an analysing, designing, building, testing and evaluation method.

The course assessment is worth 50 marks and you will have 12 periods to complete the assignment within the class.

S QA Exam

The exam covers theory from all three areas of the course. This will allow you demonstrate both your theoretical knowledge but also the calculations and skills required within each area.

30-40% of the exam marks are awarded for application and manipulation of formulae so it is important that you continue to build and work on your mathematic and numeracy skills to help you in this course.

The exam is worth 110 marks and lasts for 1hr 50mins

E lectronics and Control

We will look at how we control machines and how we make them operate automatically. You will be tested at every topic.

The topics we will cover are:

3. Logic
4. Electronics
5. Programmable Control

P relim

This exam will follow exactly the same format as a real SQA exam. This is your chance to practice for the SQA Exam, get feedback on areas you struggled with

and work on those areas before you sit the SQA Exam.

