



What is Parkside aiming to achieve through its Engineering curriculum?

- To enable learners to be able to problem solve confidently.
- Use maths and sciences to develop existing designs to solve every day problems.
- Students to learn how to design and communicate their designs, they will learn the design process along with engineer's drawings and what's involved within industry.

Parkside School Subject Curriculum Plan

Subject: Engineering – KS4



Year	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
10	<ul style="list-style-type: none"> Baseline Unit 3 assessment paper from previous summer. P4P using Pareto. <p>Unit 3 Theory AC1.3. Explain how environmental issues affect engineering applications</p> <p>AC2.1. Describe properties required of materials for engineering products</p> <p>End of term assessment (covering all theory topics)</p> <p>Unit 1 & 2</p> <ul style="list-style-type: none"> Drawing skills practice <p>Baseline Unit 2 practical assessment.</p>	<p>Unit 3 Theory</p> <ul style="list-style-type: none"> AC3.2. AC4.1. AC2.1 & AC 2.3 A.C.4.4. A.C.3.1 <ul style="list-style-type: none"> How materials are removed, shaped, manipulated & assembled. Maths elements Selection of materials for a purpose. Manufacturing methods. CAD, CAM & CNC <p>End of term assessment (covering all theory topics)</p> <p>Unit 1 & 2</p> <ul style="list-style-type: none"> Drawing skills practice <p>Baseline Unit 2 practical assessment.</p>	<p>Unit 3 Theory</p> <ul style="list-style-type: none"> AC2.1 AC 2.3 <ul style="list-style-type: none"> Select materials for a purpose. Properties & how this material is tested in school and industry <p>Mock exam</p> <p>Unit 1 (Coursework)</p> <ul style="list-style-type: none"> AC1.1 AC1.2 AC1.3 AC 2.2, AC 3.1 & AC 3.2 <ul style="list-style-type: none"> Re-design a phone charger based on plans from Derry electricals. Unit 1 coursework 	<p>Unit 3 Theory</p> <ul style="list-style-type: none"> AC2.1 AC 2.2 AC2.3 <ul style="list-style-type: none"> Select materials for a purpose. Properties & how this material is tested in school and industry Structural, mechanical & electronic products & match them to the material properties and state why Explore the effects engineers have had within the home, industry and society. Case studies and analysis. <p>End of term assessment (covering all theory topics)</p> <p>Unit 1 (Coursework)</p> <ul style="list-style-type: none"> AC1.1 AC1.2 AC1.3 AC 2.2, AC 3.1 & AC 3.2 <p>Derry electricals.</p>	<p>Unit 3 Theory</p> <ul style="list-style-type: none"> AC1.1 AC3.1 AC3.2 AC4.1 – 4.4. <ul style="list-style-type: none"> Engineering developments: structural, mechanical & electronic. Engineering processes & applications for material removal/shaping. Engineering maths Technical drawing Analyse engineering problems & propose solutions. <p>Unit 3 – revision Preparation for Exam – revision based on QLA. Exam Technique / practice</p> <p>Mock Unit 2</p> <ul style="list-style-type: none"> LO1 – Be able to interpret engineering information LO2 – Be able to plan engineering production 	<p>Unit 3 – revision Preparation for Exam – revision based on QLA. Exam Technique / practice</p> <p>Mock Unit 2</p> <ul style="list-style-type: none"> LO2 – Be able to plan engineering production LO3 – Be able to use engineering equipment LO4 – Be able to use engineering processes

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Year	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
11	Unit 3 Recap revision for those entered to Jan exam Unit 2 Completion of controlled assessment AC1.1-2.2	Unit 3 Mock exam preparation Mock exam – end of term Unit 2 Completion of controlled assessment AC1.1 – 2.2	Unit 3 Exam – January for those entered Unit 2 Completion of controlled assessment AC1.1 – 2.2	Unit 3 Exam Preparation & Mock Exam Unit 2 Completion of controlled assessment AC1.1 – 2.2	Unit 3 Exam preparation based on QLA Unit 2 Completion of controlled assessment AC1.1 – 2.2	Unit 3 Exam preparation based on QLA Complete any outstanding work for Unit 1 & 2. (Make improvements)