

<p>Subject:</p>	<p>Physics</p>
<p>Subject Context:</p>	<p>The study of Electronics will enable you to develop an understanding of electronic components, systems, processes and methods.</p> <p>The contents of the course will help you answer questions about practical circuits and solve practical engineering tasks.</p> <p>The theory covered will be reinforced by practical investigations, including design and make tasks, throughout the course.</p> <p>You will study a course with 20 topics areas divided between a common core and two components. Each topic you will study the theory and put the theory into practice by carrying out practical investigations wherever possible.</p> <p>The common core consists of the following topics:</p> <ol style="list-style-type: none"> 1. System synthesis 2. DC Electrical circuits 3. Input and output sub-systems 4. Energy and power
<p>Reading List:</p>	<ol style="list-style-type: none"> 1. Technology Student Website: https://www.technologystudent.com/pics/picdex1.htm 2. Open Circuits: The Inner Beauty of Electronic Components, Windell H. Oskay & Eric Schlaepfer
<p>Essential resources or equipment required for the course:</p>	<p>Scientific calculator, e.g. Casio FX range</p>

Taster Activity:	<ol style="list-style-type: none">1. Research and summarise Kirchoff's laws2. Research and summarise different types of sensitive devices, e.g. thermistors, LDRs, photodiodes, etc...3. Design a useful circuit containing one of the devices that you have researched
Resources needed to complete the activity:	Access to the internet
Estimated time required to complete the activity:	1 hour
How you could extend your learning:	Research your possible future careers after studying electronics using the useful website: https://careersinelectronics.com/