Wyggeston & Queen Elizabeth I College

Electronics

Get ready for a successful start!

What will I study?	The study of Electronics will enable you to develop an understanding of electronic components, systems, processes and methods. The contents of the course will help you answer questions about practical circuits and solve practical engineering tasks. The theory covered will be reinforced by practical investigations, including design and make tasks, throughout the course. 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. The common core consists of the following topics: **1.** System synthesis **2.** DC Electrical circuits **3.** Input and output sub-systems **4.** Energy and power This knowledge will help you solve practical engineering problems and understand real-world electronic circuits.
Who teaches this course?	
What resources or equipment will I need?	A scientific calculator (e.g., Casio FX range)
Reading List	**Online:** Eduqas Questions Electronics explained All QR codes can be scanned or clicked on

How can I extend my learning?	1. Research possible future careers 2. See how you do with these ohms law questions.

Taster Activity:

Resources needed to complete the activity:	Access to the internet
Estimated time to complete the activity:	1 hour
1. Use the following GCSE resource to research the symbols for Diode / Transistor (bipolar, NPN) Resistor / Light emitting diode Thermistor / Light dependent resistor NOT gate / Capacitor (electrolytic)	2. An engineer is installing an automatic outside light. The light should come on when conditions are dark and cold. Explain, in no more than fifty words, why the light sensor is normally placed on top of the light. Also explain why the engineer should be careful about the choice of location for the temperature sensor.

To be completed and brought to your first lesson