

OCR National in Engineering Systems		
Year 10		Assessment
Cycle 1	Circuit theory	
	Introduction to Circuit Wizard	
	Practise production of circuit diagrams in Circuit Wizard	30% of the overall grade for the course
	Non Examined Assessment – R048	
	Production of the given circuit	
	Circuit simulation	
	Track view production	
	Risk assessments – soldering, drilling and etching	
	Diary of making - track etching, drilling and soldering	
Cycle 2	Testing Electronic circuits	
	Evaluating the PCB production	
	Practise project for engineering systems	
	Designing of systems to solve a variety of engineering problems	
	Practise project for R049 NEA	
Cycle 3	Production of block diagram	
	Block Diagram	
	Hardware and Software	
	Inputs and outputs	
	Design of flowcharts, step by step, troubleshooting	
Year 11		
Cycle 1	Risk assessments – soldering, drilling and etching	30% of the overall grade for the course
	Diary of making - track etching, drilling and soldering	
	Testing Electronic circuits	
	Evaluating the PCB production	
Cycle 2	Testing and evaluation of PCBs	
	Finalisation and submission of the R048 NEA	
	Engineering Systems theory	
	Basic electronic circuit principles	

	Electronic and programmable systems, components and devices	40 % of the overall grade for the course
	Methods of prototyping and testing systems and circuits	
	Commercial circuit production and construction methods	
Cycle 3	Focused revision based on knowledge gaps identified during the two rounds of PPEs	