

GCSE COURSEWORK MANAGER FOR ELECTRONIC PRODUCTS 3541

Page	Title		Content	Completed
	Front Cover	RESEARCH	To include a title, your name, candidate No. and an illustration.	
1	Contents page		The number, content and order of the pages.	
2	Starting point		Spidergram showing possible design areas for investigation (problems).	
4	Research		Research existing products (Internet books and magazines).	
5	Research		Materials you could use.(HIP) (ABS) (Acrylic) (Wood)	
6	Research		Manufacturing techniques.(Vacuum forming) (Injection Moulding)	
7	Research		Various finishes. (Spray Paint)	
8	Selecting components		Illustrations and data on the main electronic components to be used.	
9	Task Analysis	ANALYSIS	System block diagram	
10	Situation / Brief		Describe the problem / What are you going to do?	
11	Research evaluation		What have you learnt from your research.	
12	Considerations		Spidergram of factors affecting design and manufacture.	
13	Analysis/Specification	SPEC	Ten things your product case should do	
14	Analysis/Specification		Ten things your electronic circuit should do	
15	Circuit design ideas 1	DESIGN IDEAS	Minimum of four different ideas using crocodile clips .	
16	Circuit design ideas 2		Evaluating advantages &.disadvantages of each circuit idea	
17	Product design 1		Minimum of four different ideas. Evaluating advantages &.	
18	Product design 2		Disadvantages of each case idea	
19	Development of circuit	DEVELOPMENT	Improvement to initial designs with annotation.	
20	Final design PCB mask		Circuit drawn in PCB wizard printed on acetate	
21	Development of case		Improvement to initial designs with annotation to explain.	
22	Final drawing		Perspective drawing of your chosen design colour rendered.	
23	Product drawing		Technical orthographic drawing (3 views to scale)	
24	Detailed drawings		Exploded 3D drawings of complicated parts or fittings.	
25	Time plan	PLANNING	Plan your time for the project (Gantt diagram, Flowchart).	
26	Production planning		Step by step sequence, how to make your project circuit board.	
27	Production planning		Step by step sequence, how to make your project case.	
28	Production details		Material cutting list & a calculation of the total cost.	
29	Modifications	EVALUATION	Changes made to design when manufacturing.	
30	Testing		Test report of the product against original specification.	
31	Consumer reaction		Reort from potential customers.	
32	Proposed Modifications		How would you improve your product.	
33	Evaluation Summary		How did the project go / Problems encountered & modifications.	
34	Industrial practices		How to produce the product in quantity. Volume production	
35	Quality control		How consistency in quality can be maintained.	
36	Quality assessment		Expert's opinion.	

**YOUR DESIGN FOLDER AND PRACTICAL PROJECT MUST BE HANDED TO
Mr. HOSTLER BY 17th December 2006**

Sit back and congratulate yourself, but only when it is all COMPLETED!!