



Technology Department Year 9, long term planning

Week	36	37	38	39
W/C Date	25-Jun	2-Jul	9-Jul	16-Jul
Topic	Understand engineering sectors, products and organisations, and how they interrelate			
Key Objectives	Describe engineering sectors and an engineered product they produce. One lesson each week learning 2D and 3D CAD packages	Describe different sized engineering organisations and typical job roles. One lesson each week learning 2D and 3D CAD packages	Explain how engineers from different sectors generate an engineered product, with reference to sizes of organisations and the job roles involved. One lesson each week learning 2D and 3D CAD packages	Evaluate how engineers from different sectors cooperate to generate an engineered product, with reference to sizes of organisations and the job roles involved. One lesson each week learning 2D and 3D CAD packages
Assessment	Describe engineering sectors and an engineered product they produce			
Homework	Homework booklet			

Department Year 19 grades 3-8 long term plan

	Assessment weeks
	Moderation week
	Data Capture
	STAR marking
	Exit Poll

Key Skills to be Covered

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
W/C Date	03-Sep	10-Sep	17-Sep	24-Sep	01-Oct	08-Oct	15-Oct		29-Oct	05-Nov	12-Nov	19-Nov	26-Nov	03-Dec	10-Dec	17-Dec		
Topic	Understand engineering sectors, products and organisations, and how they interrelate	Assignment Work to be completed by students		Engineering Skills and Designing Solutions				Engineering Skills and Designing Solutions										
Key Objectives	Evaluate how engineers from different sectors cooperate to generate an engineered product. One lesson each week learning 2D and 3D CAD packages			Interpreting an engineering brief, e.g. physical requirements, aesthetics, size, function, performance requirements.	Producing initial design proposals, e.g. researching existing products, producing design sketches in 2D and 3D, using creative thinking and evaluation techniques to generate the best solution given the brief.	Producing initial design proposals, e.g. researching existing products, producing design sketches in 2D and 3D, using creative thinking and evaluation techniques to generate the best solution given the brief.	Computer-aided design (CAD) drawings using drawing, editing, modification and manipulation commands to generate engineering drawings and circuit diagrams on templates to the appropriate standard.	Generating final design solution using 2D drawing techniques and 3D models, e.g. detailed drawings, circuit diagrams, 3D printing, physical modelling.	Making final design solution decisions, e.g. selection of materials, selection of making techniques, considering quality requirements.									
Assessment	Describe engineering sectors and an engineered			Produce design proposals, compare in relation to the engineering brief and use CAD to produce a final solution.				Produce design proposals, compare in relation to the engineering brief and develop an improved final solution using CAD and modelling	Justify the development of an improved final solution and evaluate use of the design process, with reference to the engineering brief and peer review									



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	product they produce				
Homework	Homework booklet			Homework booklet	

Week	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
W/C Date	07-Jan	14-Jan	21-Jan	28-Jan	04-Feb	11-Feb		25-Feb	04-Mar	11-Mar	18-Mar	25-Mar	01-Apr	08-Apr		
Topic	Engineering Skills and Designing Solutions						Unit 2: Learning Aim: A. Understand materials, components and processes for a given engineered product									
Key Objectives	Making final design solution decisions, e.g. selection of materials, selection of making techniques, considering quality requirements.	How employees work in a team and peer review during the engineering design and make process with the customer as a focus, using generic skills, e.g. behaviours, attitudes, limitations, respect for others, professionalism, working relationships, collaborative skills.					Assignment Work to be completed by students				Describe engineering materials and proprietary components used in given engineered products.			Explain why engineering processes are used to make given engineered products.		
Assessment	Justify the development of an improved final solution and evaluate use of the design process, with reference to the engineering brief and peer review						Create a plan to produce an engineered component in a suitable sequence that covers processes, equipment and materials.				Produce an engineered component using a range of processes and inspect against given quality standards.					
Homework	Homework booklet						Homework booklet									

Week	35	36	37	38	39	40	41	42	43	44	45	46	46
W/C Date	29-Apr	06-May	13-May	20-May		03-Jun	10-June	17-June	24-June	01-July	08-July	15-July	22-July
Topic	Understand materials, components and processes for a given engineered product				Assignment Work to be completed by students				Understand materials, components and processes for a given engineered product				
Key Objectives	Evaluate engineering materials, proprietary components and processes used when making given engineered products.				Assignment Work to be completed by students				Evaluate engineering materials, proprietary components and processes used when making given engineered products.				
Assessment	Effectively produce an engineered component using a range of processes and inspect against given quality standards to confirm compliance.				Assignment Work to be completed by students				Effectively produce an engineered component using a range of processes and inspect against given quality standards to confirm compliance.				