

A-Level D&T (Product Design): Theory PLCs

Part 2: Designing & Making Principles

Read IT		Record IT		Rag IT			
The page in your revision guide		Use simplified notes, diagrams, images		High / Medium / Low Understanding			
	I can know and understand:			Page	R	A	G
	1-Design methods and processes <ul style="list-style-type: none">○ Iterative design process○ User-centred design (UCD)			111-114			
	2-Design influences, styles and movements			115-117			
	3-Designers and their work			118-121			
	4-Socio-ecomonic influences <ul style="list-style-type: none">○ Post-First World War○ The second world war○ Contemporary times			122-123			
	5-Major developments in technology <ul style="list-style-type: none">○ Microelectronics○ New materials○ New methods of manufacture○ Advancements in CAD/CAM			124-127			
	6-Social, moral and ethical issues <ul style="list-style-type: none">○ Sustainable materials and ethical production○ Cultural acceptability○ Inclusive design○ Social problems○ Fairtrade○ The six Rs of sustainability			128-131			
	7-Product life cycle <ul style="list-style-type: none">○ The stages of the product life cycle (PLC)○ Redefining and redeveloping products			132-133			
	8-Design processes			134-138			
	9-Critical analysis and evaluation <ul style="list-style-type: none">○ How to critically analyse and evaluate○ Testing and evaluating products in industrial or commercial contexts○ Use of third-party feedback in the testing and evaluation process			139-141			
	10-Selecting appropriate tools, equipment and processes <ul style="list-style-type: none">○ Using the correct tools and equipment for specific tasks○ Ensuring your own safety and that of others○ Development of designs○ The manufacturing process○ Selecting the most appropriate manufacturing process○ The importance of health and safety			142-144			
	11-Accuracy in design and manufacture <ul style="list-style-type: none">○ Measuring and marking out○ The importance of accuracy○ How testing can eliminate errors○ Measuring aids			145-146			
	12-Responsible design <ul style="list-style-type: none">○ Environmental issues○ Conservation of energy and resources			147-149			
	13-Design for manufacture and project management <ul style="list-style-type: none">○ Planning for accuracy and efficiency○ Making recommendations for accuracy○ Quality assurance (QA)○ Quality control (QC)			150-155			
	14-National and international standards in product design <ul style="list-style-type: none">○ British Standards (BSI)○ International Organization for Standardization (ISO)○ Directives and labelling initiatives			156-159			
Next Steps							
Revisit IT		Revise IT		Re-Rag IT			
Add more detail or find out more about it		Test yourself, be tested, practise answers		Any gaps? Target them			
Access the PG ONLINE units on the school network. Use your revision APPS and E-Book of the revision guide. Carry out web based research Search the topics on YouTube, watch videos and make notes.				Attend subject theory surgery sessions at lunchtime or after school. Make use of the other subject textbooks in the classroom Check your exam feedback forms (question level analysis) Green pen previous exams			