

Please decide on your ability to teach the content/skills listed below at KS3/KS4				
K	KEY:			
4	No knowledge – Currently a gap in my subject area			
3	Limited knowledge – Would not feel confident to teach this content			
2	Good knowledge – Confident in ability to teach with some guidance			
1	Expert knowledge - Confident to teach			
The completed subject audit will be used by your Mentor to create your				
Individual Training Plan. Your progress will be reviewed on a fortnightly basis.				
You should review and record your progress at each review window below				
(and share this with your Mentor)				

Subject Area: Product Design		Baseline (4 -1)	Dec. (3 -1)	May (3 -1)	Target for ECT year if applicable
Subject Knowl	edge				
CADCAM	Laser cutter - can set up machines to plot, cut on a range of materials				
	Cad skill- ability to create drawing using subject specific software				
RM	Structural Elements Understand shell & frame structures, types of forces & their effects				
	Materials- Detailed knowledge of a range of woods, metals, plastics & composites				
	Aesthetic quality- able to analyse common products & explain the effect of shape, proportion, texture & pattern on the appearance				
	Lathe- Can demonstrate safe use of machinery & equipment, as well as a range of correct process				
	Milling- Can demonstrate safe use of machinery & equipment, as well as a range of correct process				



Subject Area: Product Design		Baseline (4 -1)	Dec. (3 -1)	May (3 -1)	Target for ECT year if applicable
	Reciprocating saw- Can				
	demonstrate safe use of				
	machinery & equipment, as well as a range of correct process				
	Polishing- Can demonstrate safe				
	use of machinery & equipment,				
	as well as a range of correct				
	process				
	Drilling- Can demonstrate safe				
	use of machinery & equipment,				
	as well as a range of correct				
	process				
	Hand held tools Can demonstrate				
	safe use of machinery &				
	equipment, as well as a range of				
	correct process				
	Joining methods- can				
	demonstrate a wide knowledge				
	of temporary & permanent joint in a range of common materials				
Systems &	Electronics- Able to identify a				
controls	range of discrete components				
601161015	Circuit assembly- able to read a				
	circuit diagram, create a PCB &				
	position the components				
	correctly				
	Soldering & fault-finding- solder				
	accurately components on to a				
	circuit board, systematically				
	finding any faults				
	Microprocessor- able to write a				
	simple program to control a chip				
	Computer controls- use				
	appropriate software to set up				
	control systems Subsystems- set up subsystems in				
	the above to refine the operation				
	Feedback Controls- Use sensors				
	& feedback to control simple				
	systems				
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Subject Area: Product Design	reage Addit Det (Floudet De	Baseline (4 -1)	Dec. (3 -1)	May (3 -1)	Target for ECT year if applicable
Textiles	Sewing machine- can demonstrate safe use of sewing & embroidery machine as well as a range of correct processes.				
	Hand Sewing- can demonstrate safe use and correct technique				
	Materials – Detailed knowledge of a arrange of fabrics & textiles				
Food	Nutrition Detailed knowledge of food & nutrition				
	Hygiene- Demonstrate safe working practices in the kitchenhold a basic food hygiene certificate				
	Practical skills- can demonstrate safe use of a wide range of hand & machine technics. As well as a range of correct processes-mixing, folding, beating, weighing etc				
	Characteristics of food- demonstrate a sound understanding of the effect of combining ingredients				
Knowledge of	Subject Specific Pedagogy				
	Detailed knowledge of the current National Curriculum Good working knowledge of H&S in D&T. Hold DATA H&S certificate or equivalent Able to analyse products in terms of the materials used, form, function, aesthetics, ergonomics, technical details, new technologies etc.				



Subject Area: Product Design		Baseline (4 -1)	Dec. (3 -1)	May (3 -1)	Target for ECT year if applicable
Knowledge of	Subject Assessment & Developmen	t			
	Detailed knowledge and understanding of the National curriculum, POS & assessment				
	Understand the cyclical nature of design, the value of evaluating at key points				

Child & Adolescent Development within your Subject					
	Appreciate the social & cultural value of				
	design & technology to society				
	Awareness of the positive processes				
	involved in design and making that				
	promote positive mental health				
	Awareness of the positive self-esteem &				
	emotional rewards to be found in the				
	creative processes of D&T				



Subject Knowledge Audit – D&T (Product Design)

Evidence of subject knowledge development

Record below the things you have **read and researched** to improve your subject knowledge in the boxes below.

Term 1	September/ October	November/ December			
Term 2	January/ February	March/ April			
Term 3	May/ June	June/ July			
Please sign this sheet off at the end of the training year:					
Signed:		Trainee) Date:			
Signed:		Mentor) Date:			