

Technology Lesson Planning Sheet

version :7.5

24-May-04

Teacher	S Nicholson	Subject	GPS Product Design (Project 1)
Teaching group	10L/M	BromCom Code	

(if different from teaching group label)

Day	Monday/Friday	Date		Lesson No. :	7-9 of 39
Topic	Research Info & Context 2	NC ref / SoW ref:		Key Stage	4

Learning Objective(s) (by the end of this lessons pupils should understand / know / be able to...)

Compare different product styles and discuss their merits

Analyse production constraints and decide how that would affect product design

Analyse the significance of the "Golden Section / Mean" - ratio 1 : 1.618 and "symmetry" in good product design

Review the use of various materials and construction methods

Determine the form of product you would prefer to design

Special Needs / differentiation

All must... all should choose the basic aspects to incorporate within their design, on the sheets produced

Most should most should choose the main aspects with annotation to incorporate within their design, on the sheets produced

Some should some should in addition, choose a form / style and note constraints with a view to promoting their ideas

Literacy		I.C.T.		Numeracy	
Annotation	y	CAD	y	Averages	o
Answering Q in full sentences	o	Databases	o	Calculations (general)	o
Crossword / Wordsearch	o	Internet use	o	Graph drawing; scales	o
Keywords	o	Spreadsheets	o	Interpreting Data	o
Labelling diagrams	y	Word Processing	o	Measuring	o
Reading books / worksheets	o	Other	o	Other	o
Writing frames	o				
Other (give details)					

Starter Activity

Write the Homework in your diary

Get out last week's homework

List and/or thumbnail sketch as many different strategies used to rescue individuals from a wilderness

Homework Write a survey and ask family and friends to answer it in relation to the use of and potential popularity of such products - identify the target market

Due in : next week

Main Lesson Activities

Homework check. Review last week / session topic

Gallery review of last weeks homework -discuss responses received from making direct contacts with manufacturers and suppliers

Complete a research sheet on solar energy for provision of electrical power, wind up generators and batteries.

Produce a research sheet on control surfaces, switch functions and ergonomics, and a further sheet on the forms the device may or may not take

Produce a research sheet on control surfaces, switch functions and ergonomics, and a further sheet on the forms the device may or may not take

Plenary Discuss which complementary colours are preferred by the group for using with their product -

Learning Checks / assessment & summary

Discussion with pupils	o	Q/A session with whole class	y
Looking at folders / written and sketched work	y	Test	o
Practical outcome	y		
Other			