

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.: 1-3 of 39
Topic	Introduction to Brief	NC ref / SoW ref:	Key Stage 4

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

Identify the various course targets and be able to record them

Perceive how vulnerable humans are when beyond normal life supporting systems and identify the need for technological solutions.

Organise a body of relevant research and the areas needing to be explored

Review the strategy for pursuing active research (in the form of a mind map).

Value each page produced as a self standing graphic product

Special Needs / differentiation

All must... all should design a brief sheet, produce a basic Gantt diagram and start three research sheets.

Most should most should design an illustrated brief sheet, produce a basic Gantt diagram with three full pages of research notes

Some should some should design a quality brief sheet, produce a detailed Gantt diagram and three plus pages of reasoned, detailed research notes

Literacy		I.C.T.		Numeracy	
Annotation	y	CAD	o	Averages	o
Answering Q in full sentences	y	Databases	o	Calculations (general)	o
Crossword / Wordsearch	o	Internet use	o	Graph drawing; scales	o
Keywords	y	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

Draw three forms of wilderness (3D) in which you would not want to stay for very long. (5 minutes each drawing)

Homework Investigate body placement for storage, and high visibility / camouflage. Design a draft personal title box for CAD production.

Due in : next week

Main Lesson Activities

Intro to course & lesson structure. Produce a strategy for pursuing active research (in the form of a mind map).

Construct a draft illustrated "Brief" page. Produce a Gantt Diagram identifying the timing of course targets and content.

Introduction to GPS Systems and their use world wide. Review the limitations that a personal device should have in a search and rescue situation. Produce sheet.

Review ergonomics and relevant anthropometrics. Product Research sheet/s

Review use of materials, water proofing, density and finishes. Look at actual products of similar nature. Make conclusions. Produce sheet

Plenary No hands up 'quiz' on the concept of triangulation, two way and multiple communication systems

Learning Checks / assessment & summary

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

Evaluation of the lesson may be found on the reverse of this lesson plan

Key: o = possible, y = included, ? = may be