

# Technology Lesson Planning Sheet

version :7.5

24-May-04

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

(if different from teaching group label)

<b>Day</b>	Monday/Friday	<b>Date</b>		<b>Lesson No. :</b>	<b>4-6 of 39</b>
<b>Topic</b>	<b>Research Info &amp; Context 1</b>	<b>NC ref / SoW ref:</b>			<b>Key Stage 4</b>

**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

<b>Literacy</b>		<b>I.C.T.</b>		<b>Numeracy</b>	
Annotation	y	CAD	o	Averages	o
Answering Q in full sentences	y	Databases	o	Calculations (general)	o
Crossword / Wordsearch	o	Internet use	y	Graph drawing; scales	y
Keywords	y	Spreadsheets	y	Interpreting Data	y
Labelling diagrams	y	Word Processing	y	Measuring	o
Reading books / worksheets	y	Other	o	Other	ratio
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** Further research on GPS systems and particularly [www.garmin.com](http://www.garmin.com) - write a letter/email asking for information on a product that might meet the constraints given in the brief

**Due in :** next week

**Main Lesson Activities**

Homework check. Review last week / session topic

Gallery review of last weeks homework - find consensus about body placement for storage, and high visibility/camouflage

Draw a colour circle based on the process colours using Fluorescent high-lighters. Add tertiary / complimentary colours to review the production of camouflage type colours

Produce a sheet on GPS, how it works, also a sheet on radio / digital, two way / multiple communication systems and product forms

Reinforce the use of conjunctions in reasoned full sentences (because, however & therefore)

**Plenary** Discuss which types of technical gadgets are preferred by the group - small group Q+A session on

**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