

# 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>19-21 of 39</b>
<b>Topic</b>	<b>Development and</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...)

be aware of the need for modelling and seeing things in three dimensions when designing

know how to use card to make a 3D model of their design ideas

understand how the model can be used to provide formative evaluation towards modifying designs

Compare the difference between a "test" model and a finished "promotional model"

Understand the relevance of mechanisms and motion in the relation to the project.

**Special Needs / differentiation**

All must... Complete mechanisms worksheet.

Most should drawing. Complete mechanisms worksheet

Some should some should in addition act as peer mentors to assist the team.

<b>Literacy</b>		<b>I.C.T.</b>		<b>Numeracy</b>	
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	o	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

Review neighbour's homework and adjust your own (add and/or modify accordingly)

**Homework** Complete a Development of a Solution worksheet (error correction - Quality Assurance and Control)

**Due in :** next week

**Main Lesson Activities**

Homework check. Review last week / session topic

complete orthographic drawing and photocopy same. Produce a development in light card to test out the form. Check for errors and need for modifications

Using a RED pen, correct and modify a copy of the original orthographic drawing accordingly.

Single period: cover issues relating to mechanisms - LOCI and the drawing of movement in relation to unfolding componant parts, linier to circular, pivots, levers and gearing ratios.

Students to tie tag and hand in all course-work for formal assessment.

**Plenary** Recap learned techniques & concepts. Discuss what will be necessary for the making of a promotional model.

**Learning Checks / assessment & summary**

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