Pedagogic Development – Enquiry Based Learning for Constructed Textiles

Textiles and Paper, School of Materials Kate Sayer, Jacquie Wilson, Barry Hyde, Lindsey Taylor

The Project

Aims

- To create an EBL environment for constructed textile design through a blended learning approach
 - converting weave design lectures into EBL.
 - To use WebCT to clarify curriculum objectives and study techniques.

The Project

Objectives:

- Match teaching methods more closely with student learning styles
- Promote deep and holistic learning
- Promote a vibrant and stimulating learning experience
- Ensure students are at the centre of the learning environment

The Project

- Outcomes
 - EBL units for the module TX2009 Weaving for Designers
 - WebCT unit detailing appropriate student centred learning approaches
 - Journal/Conference papers

Rationale

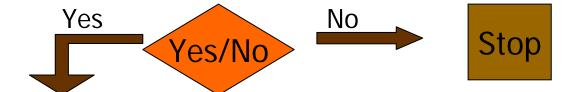
- Learning how to weave
 - Hard for designers
 - Visualise 3D structures
 - Understand manufacturing processes
- TX2009 Weaving for Designers
 - Traditionally taught
 - Lectures, laboratory classes, written exams
 - Observations showed students not understanding topics fully

The Process

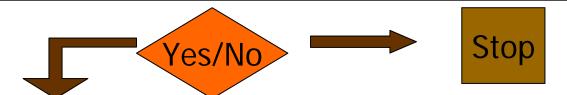
- 1. Identify problem areas in syllabus
- 2. Trial task
- Observations and reflective questionnaires evaluate
- 4. Further development of EBL units
- 5. Implementation into syllabus
- 6. Development of WebCT unit
- 7. Monitor process

Topics for conversion

Q1.Does this topic involve design?



Q2. Could this topic be taught on hand looms?

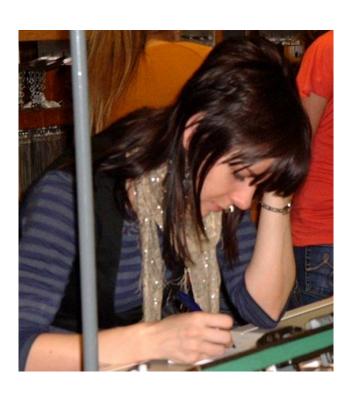


Convert into an EBL module

Topics for conversion

- Three key areas identified:
 - 1. Double cloths
 - 2. Drafting/Unit Drafting/Lifting
 - 3. Extra Weft
- Unit drafting to be used in EBL trial

- Task set one week before day
 - Groups of four
 - Teams had to design, plan, draft and weave a table mat for Ikea
 - Mat had to have a structured centre panel with structurally contrasting borders
 - One day task took place in Consolidation week









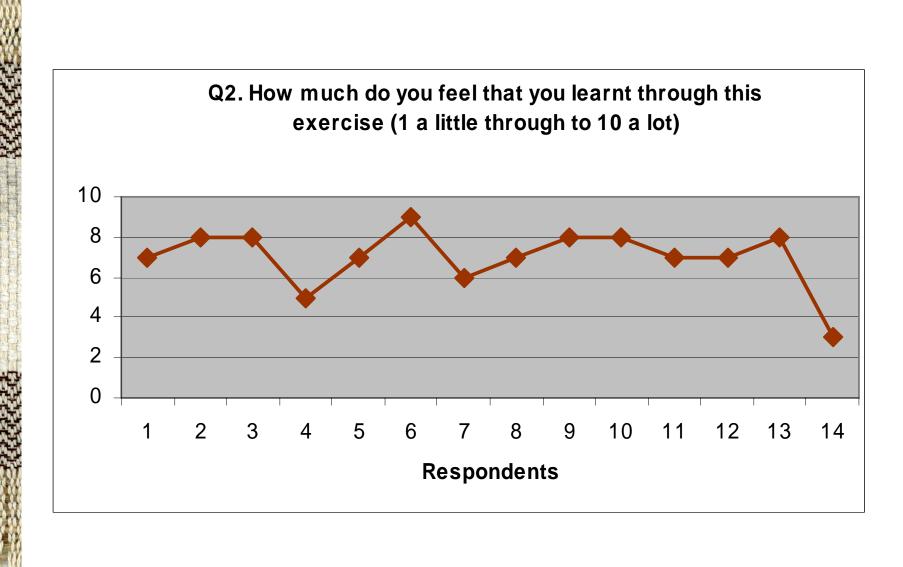


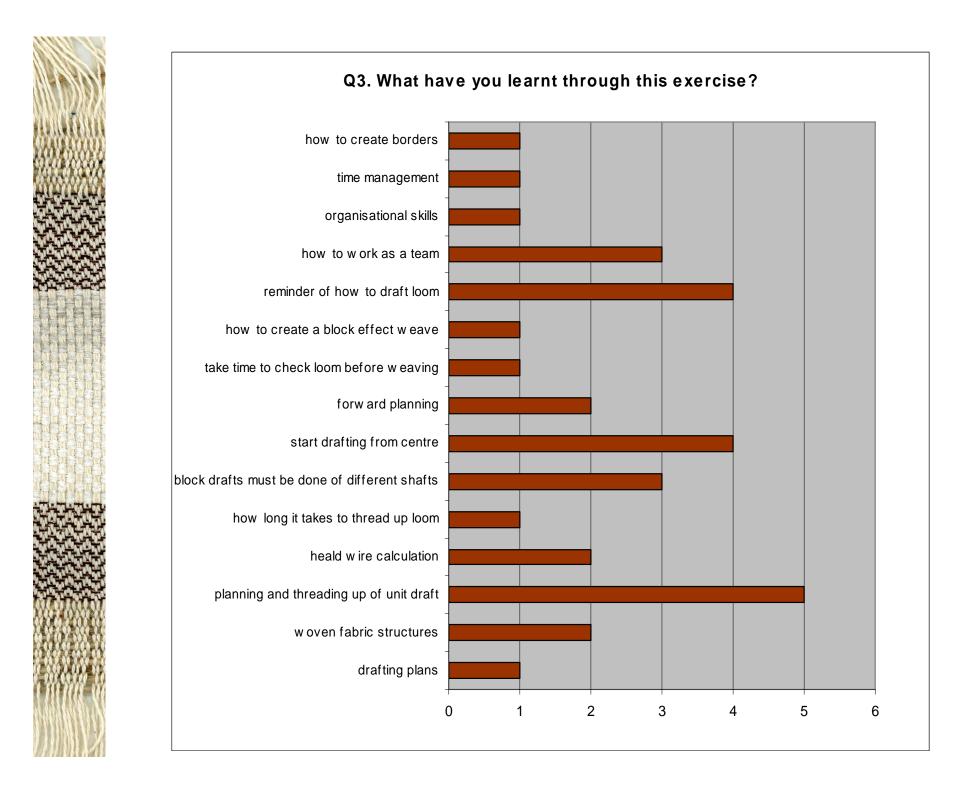
- Observations
 - Teamworking skills strong
 - Group size could be made smaller
 - Become fully involved in process
 - Groups of 3 for future
 - One day task perhaps too long
 - Teams only just got the project done in the time allocated
 - Reducing time may keep momentum up
 - Two hour teaching time + up to 6 hours of own time
 - Tasks would be modified

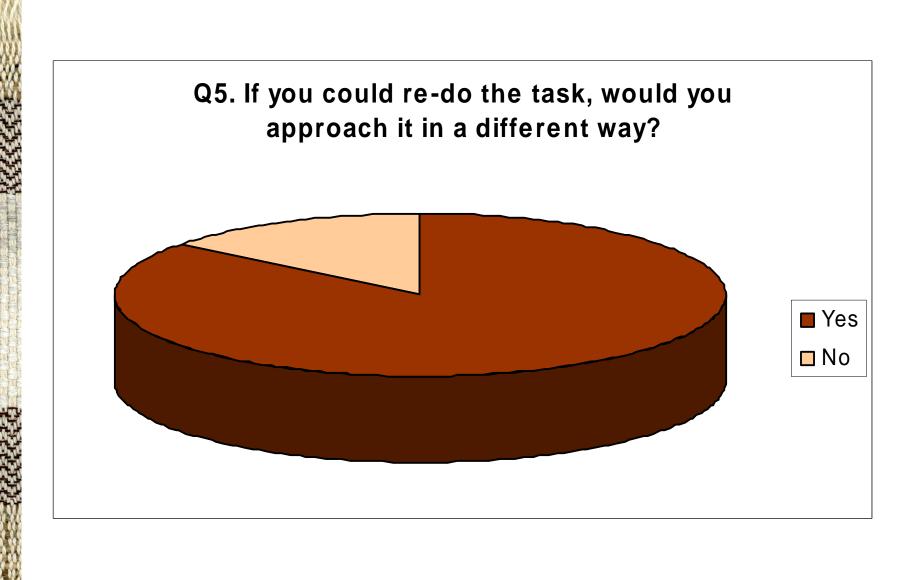
- Planning
 - 8 out of 14 students commented that they would plan more if they did the task again
 - This stage must be stressed
- Marking criteria
 - Technical ability, colour, suitability, group dynamic, design process
 - Reflective written report documenting process to be submitted for assessment

- Practical design work
 - Attention paid to weave structures in summer assessments – unit drafting had been used by some students
 - Extra weft and double cloths to be used in future

- Reflective student feedback sheets
 - 9 out of 14 enjoyed the task
 - 9 out of 14 would like more EBL tasks
 - 12 out of 14 thought the task helped their understanding of Unit Drafting
 - 13 out of 14 thought the task helped their understanding of Weave Structure







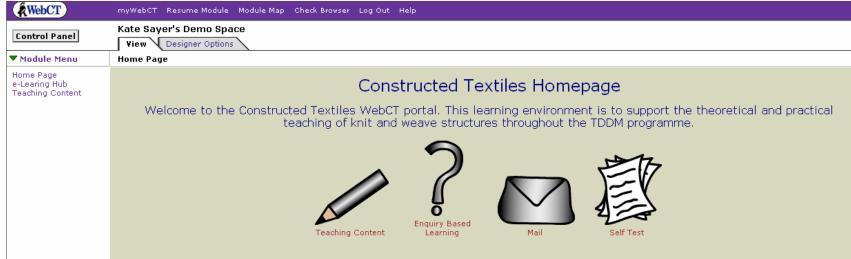
Further work

- EBL tasks for curriculum developed
 - Unit drafting design and create a drinks coaster with contrasting border.
 - Extra weft design and create a bookmark with a motif.
 - Double cloths design and create a further drinks coaster - must be colour reversible and demonstrate thermal insulation qualities.

Further work

- WebCT unit
 - Preliminary site containing:
 - Subject specific info
 - EBL info
 - Mail
 - Self test
- Further funding received by School to develop WebCT more widely.









 View
 Designer Options

 ▼ Module Menu
 Home Page > Teaching Content

Home Page e-Learing Hub Teaching Content









Teaching Content

This section contains information about constructed textile design. There are two content sections, knit and weave. These contain notes and tutorials, animations and film clips and the PBL tasks which you will complete as part of your TDDM programme





Further work

- Knock-on effect
 - Change 1st year weave curriculum into workbook of practical exercises backed up by tutorials
 - Prepare students for EBL in the 2nd year.

