# Scaffolded Assessment in Virtual Environments – MOO and Moodle

## Abstract

This session will look at strategies employed to scaffold writing tasks in IPT using Virtual Environments to (a) Improve the QUALITY of the students response; (b) Support the LEARNING; (c) Encourage ENGAGEMENT; and (d) Validate AUTHORSHIP of the writing. The presenter will focus on two virtual environments: MOO (Multi-user Object Oriented virtual environment), and Moodle Learning management system, examining strategies used and demonstrating student response.

# Projects

Assessment that is not done in exam conditions [the "dreaded" un-supervised assessment] should not be dreaded at all, rather embraced for the opportunities it provide students and teachers in active learning. Project work is a mandatory and significant aspect of the IPT Syllabus, so it is not like we have a choice, and I for one am grateful of that. Projects can be short term, hands on, written or demonstrative. They can involve research, investigation, engage the student in exploration of a topic or thread and fit contextually within the curriculum they are being done in [well, at least, that is the theory].

# Scaffolding

In the building industry, when trades people construct things, they erect scaffolding around the erection as it is built – to support its development, to allow access to all levels of the building and to catch stupid people who might fall off it. Building scaffolding around a project performs much the same purpose.

Project scaffolding can be as simple as a stepwise explanation of what needs to be done, template process or step-wise hoop-jumping exercise. I like to think of scaffolding conceptually on two levels – **vertical** and **horizontal**.

**Vertical** scaffolding is "total project scope" scaffolding – structural information on the whole task, the sequence, relevance, timeline - the meta-task. Interestingly, most teachers have usually done a reasonable job of this.

**Horizontal** scaffolding differs from vertical in that it provides blueprints of what to do at each stage in the sequence described by the vertical scaffolding. Traditionally we have shied away from this, assuming the rigor was in the student's ability to work out what each step requires. Teachers live in fear that horizontal scaffolding appears to "dumb-down" the task and I would argue that is entirely incorrect.

Scaffolding of projects and writing tasks provides students with starting points – the scaffolds themselves do not write the response, merely prompt for what is acceptable and appropriate, where and when. Properly constructed, they elicit structured and elegant responses, as opposed to carbon-copies.

## Why do Projects at all?

Projects or assignments are used to engage students either collaboratively or singly in deeper learning, to explore a topic, to allow students to demonstrate their "elegance and flair" [words from the IPT syllabus that indicate students that typify standard A in the research and development criteria]. Although the syllabus mandates projects, there are many good reasons to explore them even if that were not so.

If projects are well constructed and suitably open ended, they cater for the complete range of abilities. If they are monitored [that is, if the teacher takes an \_active\_ role in the project] then the student feels supported, readily makes connections to class work and actually hands it in. The quality of the design and support the student experiences can greatly effect what is handed in.

## What are the Benefits?

Exams are a curious way of assessing subject mastery, but we all use them because they are the accepted form of supervised assessment. I am not necessarily suggesting we ditch them, but a model that evolved in the dark ages to selectively exclude enthusiastic novitiates from entering the clergy by asking obscure questions in a written test, subsequently adopted by the education systems of that time as "best practice" seems hardly "cutting edge" today.

Assignments afford time to explore a topic more completely as a complement to what is happening in other coursework. That is a gift; do you see it as such? Sparking student creativity and innovation is the ultimate aim, not merely the regurgitation of someone else's solution. When you are working with students at a collegiate level, it is as good as teaching gets IWHO.

### What are the risks?

**Plagiarism happens**. Students copy stuff, fact. Stupid people blame the "information age" but the blame rests squarely on the educational designers [the teachers, sorry]. If "copy and paste" is the solution, then either you are testing a really basic competency [the copy and paste skill] or your question is fundamentally buggered.

We are all time-poor. Assignments cause work, work consumes time. You get that. Teachers should not be "surprised" by their student's responses – they should expect them. Surprise comes from being detached from the creation process, not monitoring or check pointing and although it is easier NOT to do these things, the educational benefits of keeping in touch with what your students are doing in assignment pay dividends in other classroom aspects also, building an important rapport so the student feels confident to seek assistance when they need it.

You have to mark them – who would have seen the connection between setting work and marking it? Designed to work smarter, not harder, much of the "marking" per se can be handled in the progress of actually monitoring the assignment. By getting in and getting your "hands dirty", using progress checklists, completion phases and structuring their responses, you save time in the long run and better still, are not "surprised" by what is handed in. I do not know about you, but I hate surprises.

In the real world, employees work in interdependent groups – the "G" word is not something to fear, again a mandatory and significant aspect of the course, group work is an ideal vehicle to explore complex problems – "many hands make light work" [where the work is not light on substance, merely ineffectual effort].

Poorly designed or misunderstood tasks are hated by kids [that is not to say that if you design it well, they will love it, rather they will hate it less]. Really well designed assignments can die as well – by neglect. The assessment piece itself is not the motivator – the educator is. You cannot polish a turd, but you can chocolate coat it.

## Let's Get Pedagogical

Educational design is what I am on about here [well, what I call educational design at least] – identifying what you want the student to do is often overlooked when teachers focus on the "product". I would like to suggest initially that the product itself is unimportant, in the grand scheme of things [who can remember the essay they wrote in Year 11 English, and the impact it is having on their lives today?]. Now I am NOT advocating the removal of the product – certainly from a "boys" perspective, the product is the goal, but the planning and the progress towards the product is where the actual learning takes place, so why not make the importance of it explicit. Even more radical, why not make that where a significant portion of the marks are.

The \_only\_ portable skill is the actual writing process – model it properly and you give the student a gift for life. What was that old adage: give a man a fish and you feed him for a day, teach him to fish and soon the oceans will be depleted [or something like that]. Not to be flippant here and yes, the panel are going to want to see the student engaged fully in the actual course content, but the underlying methods are the important "life long learner" skills – master them and the quality of the response will be superior.

There are all sorts of educational theorists that say aim for the end point and let the students muddle along and find their own way, I am NOT one of them. I firmly believe we need to model and provide pathways to success. For major system development, vertical scaffolding is not enough to ensure the thing that is handed in is not merely copied or done by mum and dad.

Let us take software development for example – such an odd craft. It is one of the few things [target practice with surface to air missiles is another] where it is either correct or not good enough. I guess that is too simplistic a view. Part of me even screams at that – we have all seen programming solutions that \_work\_ but are fugly and inefficient, brute-force and displaying inelegance.

### Those were the days ....

Things were simpler in the good old days ... no they were not; we as teachers were less aware of what the students were doing and, sadly, accepting of much less cognitively demanding work and just as blissfully unaware of what BOOK kids copied work from. Even sadder were the style of assignment that proliferated: Write 1500 words on the role of females in Shakespeare's Plays; Write, in 500 words, an obituary for Martin Luther King; Explain, using examples, the benefits of the Quick Sort over the Bubble Sort; Write a letter to the editor justifying software piracy; ... and so on. These sorts of items also, sadly, added insult to injury by providing no guidelines on how to present the product, no intervention during the process but rather a total mark and a due date.

These days, the internet is such a blessing, and a curse. Have you tried to post scurrilous information for your students to find, just to see if it works – I have. I, for example, re-wrote the Wikipedia definition of "Privacy" prior to launching a research task that incorporated the concept, just to see who did not bother to read what they were copying – interesting indeed. The corruption was subtle, gradual and interestingly was still there up until a few days ago. I have maliciously posted bogus content that was obviously wrong and students have used it, handing it in with bona fide bibliographical references [a good old fibliography – that list of references they think you wanted them to use, when in fact they used something from somewhere else]. We assume students are great discriminators, that they browse and graze selectively and that is certainly true when they are engaged in looking for something that interests them – sadly not so for assignment references.

## **Cognitive loading**

Assignments provide opportunities for students to display mastery of higher order thinking skills in a more real-world scenario. They can come in all shapes, sizes, durations and often are inter-disciplinary over topics.

Our school uses a number of curriculum frameworks, and **Dimensions of Learning** is one such framework. Categorizing and making explicit higher order thinking skills (HOTs) like Abstracting, Comparing, Deductive Reasoning, Error analysis, Analyzing Perspectives, Decision making, System analysis and so on can provide terrific scaffolding for challenging assessment items.

Example: HOT:	Pose an initial question "Which Microprocessor is Best?" Comparing
Context:	This is Hardware, so fits within the SSE unit, but brings in aspects of manufacture, control, marketing and FUD (fear, uncertainty and doubt)
Agenda:	Students approach this with their own pre-conceived ideas, often based on nothing but hearsay, so the challenge is to get them to think and express themselves objectively.
Method:	Get them to nominate processors that are comparable. Get them to collect good references for their chosen processors – say 3 each, and justify why they chose those references, what they tell us about the topic and how reliable they would be – an annotated webliography. Get them to decide of the basis of comparison and justify the comparators as valid. Using the comparators, report objectively how each processor measures up. Conclude on the basis of reported information which is best.

The basis of comparison is important, but all too often we lose out on quality responses because we assume that students know how to do it objectively. Although a simple exercise, you get the opportunity to check in at a number of junctures, correct and suggest alternative paths of enquiry. The horizontal scaffolding here formally explains what has to be done each stage, what format the suggested responses should take and acceptable depth.

By adding structure, you *cognitively load* the task, provide the student with opportunities to display their thinking, make it much more difficult to plagiarize, make the task appear do-able by even low achieving students who are often unable to see the forest because of all the trees.

Example: HOT:	Suggest a possible role for Smartcards in your school. Analyzing Perspectives
Context: Agenda:	This could be an IIS topic, with SEI overtones and a bunch of hardware concepts as well. Students may have little real information on this topic, so there is an opportunity to explore
Method:	the technology along with the implications of using it in a social situation. Get them to "steal" a good/relevant definition of privacy, acknowledge where they got it
Methou:	from and why they chose that one [in terms of their own belief system].
	Get them to research and report on how the technology works, reference where they got
	their information from.
	Get them to identify some real world uses of the technology along with why that technology
	was selected over others available, reference their sources.
	Get them to list topics, in sequence, from an advocate of the technology looking to
	introduce them to a school, identifying for what, when, costs etc.
	Get them to write a letter from the Principal to the school community outlining the plan to
	introduce smartcards.
	Get them to list possible objections a parent might have to such a scheme.
	Get them to write a letter to the editor explaining why the introduction at their school is a bad idea.

By forcing students to adopt opposing views on the same topic, they get an opportunity to explore it within a social and ethical context with much more rigor than you would get from only one side of the story.

# Learning Environments – why bother?

There are lots of learning environments, all provide some degree of engagement, some provide a sense of place and belonging, some provide brilliant social networking tools, some are easy and intuitive to use. I chose two learning environments – a **MOO** and a **Moodle** as the starting point for our schools adoption of these environments. The selection criterion was fairly simple in the beginning:

- it had to be cheap [both MOO and Moodle are open source and free]
- low bandwidth [because our network at the time of choice was slow and clogged]
- locally hosted [because we would rather look after this stuff ourselves]
- easy to maintain, because I am a n00b [MOO and Moodle have huge helpful user bases]
- authenticated and secure [we do not want strangers in working with our students, nor do we want our students breaking it because it is there a boy thing?]
- subject independent [in the true "integration" theme, we are all users of technology, right?]
- and feature rich.

Not asking for much really – lol.

Interestingly there are lots of solutions that sort of fit the bill, depending on the budget and your interest in exploring feature sets. Although I am a *MOOvangelist* and enthusiastic Moodle user, most of what I am demonstrating can be achieved without a formal electronic learning environment at all, but the kids will not engage with it as deeply in my experience.

Half-arsed attempts to utilize e-mail, USB keys and *sneaker net* to transport versions of documents around are fraught with technical difficulty, susceptible to human foibles, prone to disaster recovery strategies and just too much work for me to contemplate these days - I may be spoiled, however, if experiencing tools that work reliability could be considered spoilt.

There is a fine balance between tools and the interface used to access the tools that is often overlooked by geeks [us] as a geek is fairly tolerant of shoddy design and obscure menu options. As an active learner in SecondLife, as an example [sorry Lindy, *heresy* alert coming] of an alternative learning environment, but currently imagine that the interface provides an abstraction barrier to the task that kids who are easily distracted [not that we \_ever\_ see those] would find irresistible. Indeed, in the relatively simpler MOO space, access to chat and mail and other in-world tools provide distractions that require teachers to gently re-focus students. I can only imagine what it would be like if a kid spent their whole lesson customizing their avatar.

## Example 1 - MOO

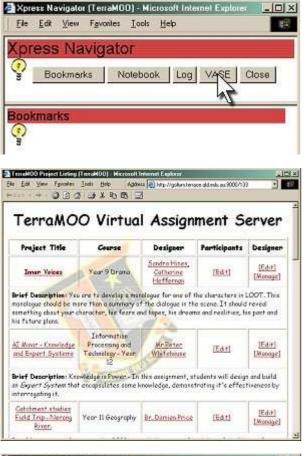
I use a virtual assignment server engine in my MOO to deliver an interactive copy of the scaffolding to my students. There are many benefits in this approach.

I control the format. In a writing task, I am interested in their writing, not in the mastery of their publishing package – this is \_different\_ if I am assessing an established genre however and would probably shy away from MOOs VASE for that, but would probably use it for the prep-work leading up to the final draft. The ease of deployment and the simplicity yet flexibility of design tools provides me with the possibility of designing interaction templates that when published collect student responses.

The "killer" aspect of this form of technology is there are NO version control issues – students interact with the ONLY copy of the work – whether at school or home. The MOO database keeps their work for them, when they sign in they have the most recently saved version with them, there and then - all very tidy.

Within the same tool, the teacher has the facility to feed back critical review of the student work, and so help the student refine their responses. This feedback appears within the finished writing as a perpetual record of offered feedback.

The MOO is a chat-enabled virtual environment, which makes it ideal for discussions and collaborative work. Chat in a MOO can be mediated and recorded in many varied ways, making the discussion available as a resource as well. Kids chat, it is how most of the current generation solve problems.



xpress

To access the Virtual Assignment Server (VASE), go to your XPress Options.

The list of VASE assignments available for students to log into contains the **name of the assignment**, the **course** it is associated with, the name of the **designer** along with **sign in and management** options.

Students would scroll through the list to find the one they wanted to do and then click on the assignment title to initiate the subscription process.

Anne Rang Far Dack (Ferniettit) - Niccentri Internet Explana 1 Aphene Mp Mp/Mp/Inclesion-pit edu.ax 9000/218 - 030 3108 3 More Bang For Buck 6 Which Microprocessor is the Best Information Processing and Technology - Year 12 Designed by Mr Peter Whitehouse (peterw) ription: This online investigation focussas on comparing as a higher order Project Des thinking skill. It requires students make an informed comparison between currently available processors to decide which one is the best. It also allows them to focus on what makes a processor better than another, how industry tries to best represent their products and the role of advertisements on customer perception Evaluation Oritoria: This is a completion exercise - students learn by doing. Concepts covared in this unit will be perceptible in the End of Unit Exam (June Exam Block) Suggested Online References: http://www.intel.com - http://www.materala.com http://www.ond.com http://www.mips.com http://www.opple.com/powermac/processor.html further information: http://wonkasite.ausbane.net/cybertext/consys/chipsdown.htm I would like to work on this project. I am this project's designer and would like to edit it. I am this project's designer and woold like to manage it. Close this window

A **cover page** for a VASE assignment follows a template that allows you to control and describe a number of features:

- the title of the assignment
- a subtitle of appropriate
- the course it is associated with
- a description. The first paragraph of the description is what will appear in the assignment list.
- evaluation criteria
- a hotlist of online references
- a bibliography of suggested other resources
- a further information link

Students can subscribe to this assignment from here by selecting to work on the project.

From this screen, designers can also manage and edit their assignment.

	More E	Bang For Buck	
	100es Ale	croprocessor is the Best	U
1		n Penersing and Taskadagy - Year 12 and by <u>the Actor Witchisses (Jaturni</u>	
1	Porticipant Naneukir Press	Stor American Targe	
	Part of the second second	Connectant Carl Inc.	
	D IT	Section 1	
	is the precess of identifyin are the same and differen		
	at the TWO terms of arms		
In the first sector, so number that uniquely i	last the TWO types of presi last fice this sort of presses		Marchollerer, base droe and or
To the first section or number that usigably i Tatle: [Morgocom	lantifies this cort of process a Clinoseco		Marcharterer, banerafter and a
In the first sector, so number that uniquely i	lantifies this cort of process a Clinoseco		Machalum levelatio ad a
To the first sector, or number that uniquely: Table: Maccount Amograph: The table of	lantifies this cort of process a Clinoseco		

100	W WITTE	1		115-135 - 305	83
P. Allow this	project's designer to	view and comm	ent on your wo	rk before it is ha	nded in.
	eee Dack Res	ento Saved	Seve and View	>>> ~	
				14.20	
		lave and Handla P	baled -		

		i lina
	An out UTE you need	<u></u>
Allow this project		
10	Clack Rever to Seved	Sieve and View 333
WARDING O	Save and Hand b	n Project ma mill rest be oble to edit it further!
Walkage C	the you have this preject in y	AT MID HAT BE ON TO SOUTH TURNER!

When working on a VASE assignment, students are presented with a FORM that they fill in.

Typically, VASE assignments are divided into SECTIONS - each section represents a *thing* the designer wants the student to do. Within each section, places that students can enter their responses are designed by the designer. Instructions for using the entry points are specified by the designer.

There is a reasonable variety of types of entry available in a VASE assignment to cater for a wide variety of assessment tasks.

Students working on their VASE assignments can SAVE and VIEW often (it is recommended they do this every 5-10 minutes). Each time they do this, their current work is written into the MOO database and therefore cannot be lost.

Students would press the BACK button to continue working after a save.

Notice in this instance, the student has ticked the "Allow this project's designer to view and comment on your work" box - this is particularly useful in receiving feedback during the writing process.

When a student is ready to submit their assignment (when finished), they click on the **Save and Hand in Project** button. They are required to CONFIRM that choice so it is less likely they can co it by accident.

Once an assignment is handed in, the student can no longer edit it - this is as it should be as it is now the designers job to assess it.



		🗆 Flynn Hannam s343311 🗖 D
	ns: If checked, notifications will b r hands their work in, and to the their work.	
Public: I checked, any	one may view completed projects In	after they have been handed
P Archived: If checke	d, the project will be removed from aftered.	n the listing and may not be
	Make These Changes	1
	Delete This Project	74)

As **project manager**, you control many aspects of your assignment other than the design.

In this screen, you can see those assignments HANDED IN, those MARKED VIEWABLE by the participant (i.e. not handed in) and a list of participants that have made a start on the assignment.

To mark a student's assignment, you click on the link in the "Ready for Evaluation" area. Notice that the MOO tells you WHEN the assignment was handed in - students cannot change this and gives you an absolute measure of the lateness of the assignment should mark penalties apply.

Sometimes students accidentally hand in an assignment before they are ready - you can undo that for them from this screen.

Public assignments are not generally a good idea as unless you want other students to be able to see completed assignments.

You can ARCHIVE or DELETE the assignment from here also when you are finished. Archived assignments do not appear in the VASE list. Deleted assignments cease to be - this is <u>un-</u> <u>recoverable</u> so be careful!

After clicking on any tick-boxes you deem appropriate, you must press the MAKE THESE CHANGES button.

When you ARCHIVE an assignment, it is removed from the list of active assignments when you created it however, a link was created in your **MY STUFF**.

When you want to use the assignment again, go to **your stuff**, click on the link, manage it and uncheck the archive box.

#### Scaffolding Assessment in Virtual Environments

Surviving Austrolian Survivor	Year 9 Wedia and Technology	Mr Michael Dezuzzai	[Edit]	[Ed+] [Manage]
Brief Description: Th	a mockumentary will in	vertigate the fore	of Austrolian Se	arvivar,
The Right Meetine For the Jab	Information Processing and Technology	<u>Mr Pelar</u> Whitehause	(Edut)	[Edit] [Manoga]
	lecting handwore suitab ction of this Course. Th ce to support it.			

/ P/		Alan	Desta	22	
	eate a	New	proje	СТ	
is page will help you to provation we need to er.					
	XX	-			
	What is the fi	tle of this a	usigement?		
L			state me		
Defente a	course () f any) is		+ aminiated in	aish7	
	And he for the for	o o mo gradiec	Cossourd red F	nue.	
w many sections woul	<ul> <li>More and an an an and an and an and an and an an an and an an</li></ul>	20100 000000		n't worry if you	aren't
	sure what the	tis means ye	t.) 1		
iter a description of y		e first line o ect listing w		tion will appear	in the
					-
					-

Making a new VASE assignment is easy but BEFORE YOU BEGIN you need to have a clear idea of <u>what</u> you want your students to do and <u>how</u> you want them to do it.

VASE assignments suit certain sorts of writing and research tasks, NOT others - so use the tool prudently.

When starting out, you are asked some introductory details about your assignment such as:

- Title
- Course
- Number of Sections
- Description

The number of SECTIONS usually corresponds the number of *things* you are going to ask your students to do.

The Description should be verbose and helpful the first paragraph will appear in the VASE project listing screen.

You fill out the boxes then press the CREATE THIS PROJECT button.

	Ach		ioot Editor	
	AC	neve Pro	ject Editor	
		Show Availab	ble Help	
		General Inf	ormation	
Project Title	Unders	randing VASE assign	rens	
Project Subtibe	1			
Course Designation	Inservi	ce and Training		
Project Designer	-			
Designer's Email	-			
Project Description	assign	arignment vill sild menta maŭ is design Obles guide.	w you to explore and create WASE ad to be used in conjunction with	
				4
				-
Evaluation Criteria				
				-
	-			1
Suggested Online References				
Suggested Bibliography				E E
Further Information URL	ſ		i.	
		Appear	ance	
Logo URL				Ĩ
Background Co	lor.	(VAR)	(Table of Color Values)	
Text Color		Black		
Link Color		Marcon		
Background Ins	ige URL	htp://www.worko.ink Note: This property on IP: Show Designer' IP: Show Designer' IP: Show Participan IP: Show Participan	errides the background color s Name s MOO Account r's Name	21

General information about the assignment can now be specified, including:

- Title
- Sub-title
- Course
- Designer
- Designer's email
- Description

in the description, the first paragraph only appears in the vase project screen so you can add extra paragraphs here to further explain the rationale

- Criteria in this section you detail how the assignment will be marked
- Online references
   this section will create for you a HOTLIST
   of URLs simply paste the WHOLE
   address (http://yada.yada...), pressing
   enter after each. This will be rendered for
   you as a bulleted list in the actual
   assignment.
- Bibliography

in this section I usually mention (with call numbers) any books or other resources useful for this assignment - talk to a Teacher Librarian for suitable resources here.

 Further information you can link to a page containing further information if you know of one by pasting it's URL in here.

Any sections left blank will automatically be left out of the actual assignment.

You can further alter the appearance of the assignment by changing:

- Logo
- Background colour
- Link colour
- Background image
- Submission options
- Number of sections

Save and continue on completion.



···· 033 310	ona ⊒
TerraMO	O Project Editor
12	iow Available Help
Directio	ns for Section 1:
Directio	ns for Section 2:
Directio	ns for Section 3:



In this part of the assignment creation process, you as the designer get to choose what format the student will use to respond. You have many options for each section including:

- Title
- Subtitle
- Paragraph(s)
- Inset paragraph(s)
- Bulleted list
- Numbered list
- URL
- Image URL
- Audio URL

It should be noted that if you want your students to include illustrations, the images must be on the 'net somewhere already - they merely point to the URL of the image!

You are now required to enter the directions students are to take for each of your sections. You need to be careful that the directions are clear, and tell the students what to do where a good measure of the quality of your instructions is HOW MANY QUESTIONS you get asked when the students are using your assignment.

It is usual to let students know what they should do with each input field you have created. Experience has shown that simple sections (lots of them) work better than complex sections (relatively few of them) but you need to see what works best for you and your classes.

When you SAVE AND VIEW you get taken to your cover page. Students can now subscribe to your assignment and you can manage it.

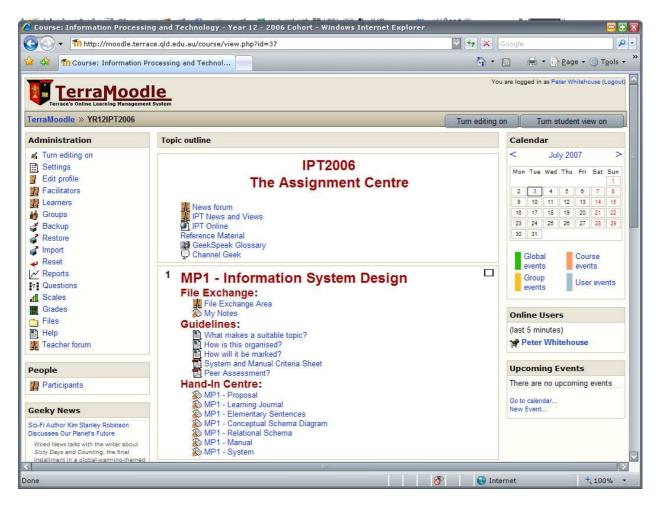
"Plan B" Taken from: <u>http://www.terrace.qld.edu.au/moo/moobiesguide/</u>

# Example 2 - Moodle

A Moodle, like any LMS [Learning Management System – there are lots: Blackboard, Desire2Learn ...] provides a stage for teachers to place content, tools to allow students to interact and contribute using that content, and tools to collect students responses.

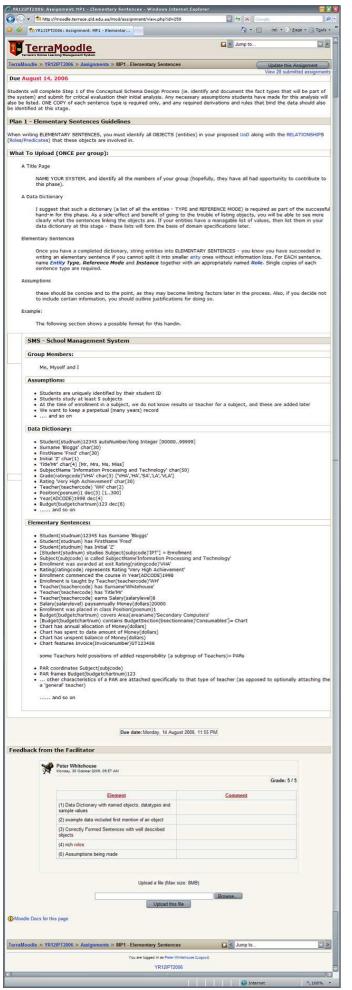
I use our Moodle to stage multi-part Major Projects [for both IIS and SSE components of the course] in a course that provides both vertical and horizontal scaffolding, making the tasks doable by all ability levels.

I use "assignment" activities in-world with file uploaders for hand in on each stage, "separate group" management so the other tools are collaborative and shared. I use forums for group members to post and annotate versions of documents – thus giving me a version history and proof of authorship



Within the Moodle, teachers have a large selection of RESOURCE and ACTIVITY builders that allow you to define the scope and sequence of a task. In the above screen shot you can see a "Guidelines" section that contains much of the vertical scaffolding for the task – Meta documents as RESOURCES, providing overall details.

The "Hand-In Centre" provides the interactive ACTIVITIES that contain file uploaders for each section presented in a vertical sequence. Within each uploader, horizontal scaffolding provides details on how to successfully complete the stage.



Rather than leave it to chance, I specify what would constitute an acceptable hand in, and provide an example of the style that the document should take.

I take the time to enumerate the things I am looking for in this, a "completion" phase, and provide "nominal" marks for each of the key elements.

The beauty of such a scheme is that students get immediate and useful feedback on the deficiencies of their hand in and rectify it immediately – this is particularly important in an assignment that is sequential – i.e. the next stage is dependent on the previous stage being completed successfully.

The other benefits of the approach are that you take a huge task – in this case the development of a database system from scratch – and dissect it into smaller, more manageable chunks. Chunking is an important structural aid for students who struggle to understand things, and invaluable in keeping students organized.

I am \_not\_ suggesting this is the only approach, but my preferred approach. I like these sorts of tools because I can leave helpful and persistent comments amongst their handed in work and that makes final grading that much less painful as I have been actively part of the development process.

Students appreciate the extra care and attention to detail and have often remarked that they have felt supported but not constrained by this approach.

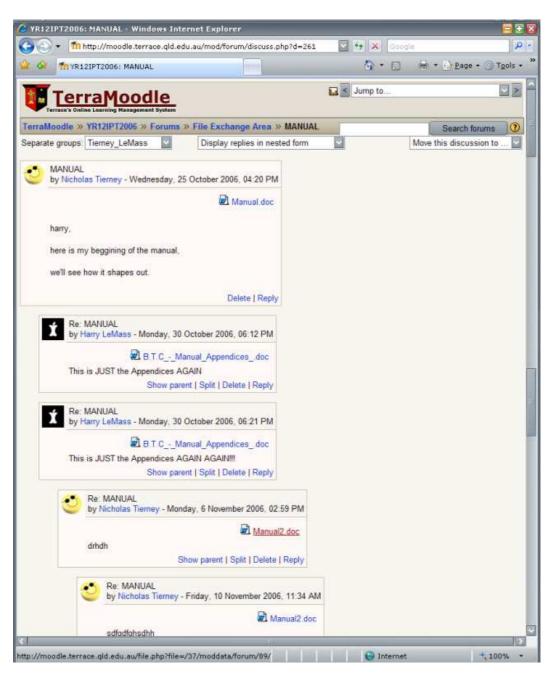
Ø YR12IPT	2006; MP1 - Elementary Sen	ences - V	Vindows Internet I	Explorer			0	
<b>OO</b> -	mhttp://moodle.terrace.qld.e	du.au/moo	l/assignment/submis	sions.php?id=258	🖌 🍫 🕺 😡	jle	2	•
🔆 🅸 🖪	😽 🕸 🎢 YR12IPT2006: MP1 - Elementary Sentences 👘 🔹 🐘 Page + 🎯 Tools - 🎽							
	TerraMoodle							
TerraMood	lle » YR12IPT2006 » Assignn	ients » N	IP1 - Elementary S	entences » Submissions	0	Update this As	ssignment	
				Carr_Dormer IIJKLMNOPQRSTUVN IJKLMNOPQRSTUVN				
-	First name / Surname 🖣	Grade-	Comment-	Last modified (Learner)	Last modified (	Facilitator)	Status	
1	James Carr	5/5	ElementComment (1)	Elementary_Sentences.doc Wednesday, 23 August 2006, 09:13 AM	Saturday, 2 Septe 10:25 PM	mber 2006,	Update	
2	Christopher Dormer	<mark>5/5</mark>	ElementComment (1)		Saturday, 2 Septe 10:26 PM	mber 2006,	Update	
	Submissions shown per page: 10 Allow quick grading: Save preferences Moodle Docs for this page							-
TerraMood	Ile » YR12IPT2006 » Assignn	ients » N	IP1 - Elementary S	entences » Submissions 🔜	< Jump to		<u>&gt;</u>	
-			You are logged in a	s Peter Whitehouse (Logout)				
			YR	12IPT2006				
K								
					😔 Internet		100%	t 11

As the owner of the course, I get to manage student and group sections, and by "updating" I get to see the actual hand in, mark and make comments on it.

C Feedb	ack:James Carr:MP1 - Elementary Sentence			
	<ul> <li>M http://moodle.terrace.qld.edu.au/mod/as</li> <li>M YR12IPT2006: MP1 - Ele</li> </ul>	signment/submissions.php?id=2 ck:James Car ×	58&userid=123 💟 😽 🗙 Googi	e P -
*	Construction of the second sec	☑ B I ∐ S X x² ⊫ ③ B I ∭ S ∞ ↔ ↔ I □		
	Element	Comment		
	(1) Data Dictionary with named objects, datatypes and sample values	data types? edit: good		
	Path: Save changes Cancel	Save and show next	Next	
	James Carr Wednesday, 23 August 2006, 09:13 AM (8 days 9 hours la	te) 🖉 Elem	entary_Sentences.doc	
() Moodle	e Docs for this page			
			😜 Internet	* 100% -

Those comments are immediately available back to the student.

Version control and document management can be achieved many ways, I like a solution that works the way students are used to – many routinely use forums and other online tools and the file exchange area is a forum that they control:



As a teacher, I value being able to see a document develop, and this provides vivid proof of authorship. The tool also allows me to contribute to the thread, suggesting refinements along the way.

In a Moodle, the course itself provides the vertical scaffolding, each element of the course (activities and resources) flesh out the scaffolding vertically. Far from " dumbing down" the task, this approach enriches and supports student learning and that, dear reader is what it should all be about.

## So What?

Finding ways of getting kids to engage in learning is what any effective teacher strives to do. Evaluating the effectiveness of the chosen learning activities and bringing to a conscious level the decisions and procedures that enable that is what a professional teacher does.

Moodle, like MOO has many user management features that, as a teacher, I like – the ability to display user login and activity patterns, a rich collection of tools to set my learning experiences in and the engaging nature of the environment are all good reasons to adopt a technology. Breaking the barriers that are the four walls of the classroom, to facilitate learning outside of class time is also a compelling reason to consider such tools.

In this paper I have tried to look practically at the assignment setting process. As a panel chair I despaired at the mediocre assessment being used in certain schools and the lukewarm to disengaged responses elicited from students to those items, without surprise really. I have seen the power of a really good item, how it inspires the student to go beyond their understanding and those sorts of moments, sadly rare in a teacher's life, are what contribute to make the profession so satisfying.

I am not trying to set myself up here as an oracle of all that is good and correct in assessment. I am learning, and still making mistakes. My students still ask me questions that indicate that I have the design of the item wrong, and my district panel still suggests modifications to the ways I do things and that is fantastic. I love to learn about new ways to do things and would encourage you [presumably as you are interested enough to read this stuff to the end] to continually explore ways of connecting with your students in real and empowering ways.

If you have a question, please send me an email. I cannot guarantee an expert answer, but at least you will get what I reckon. Email: <a href="mailto:wonko@wonko.info">wonko@wonko.info</a>