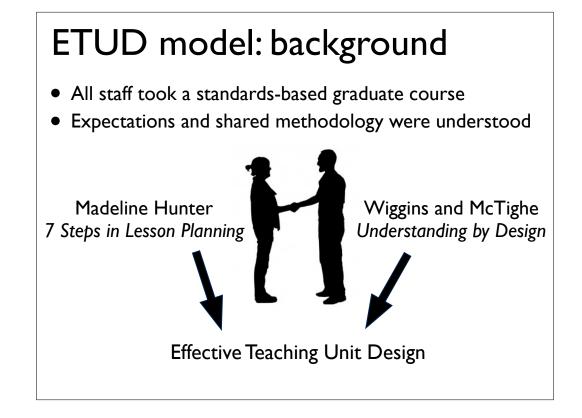
Overview of unit design template using technology

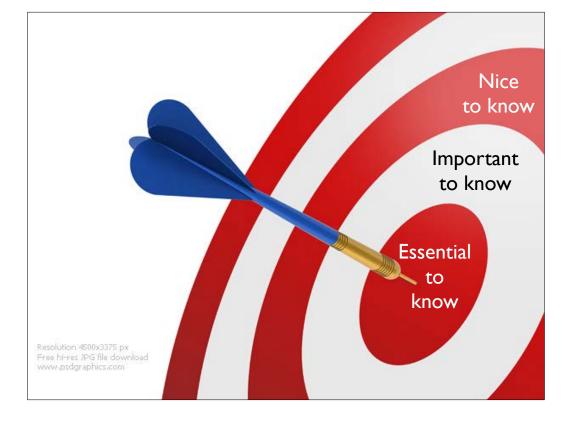
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A little background on the adoption of the ETUD (Effective Teaching Unit Design) model of unit development. Over a period of 2 years, all administrators and teachers took the same graduate level course dealing with standardsbased unit design.

The idea is that the expectations for use and a shared vocabulary were to be adopted district-wide The ETUD was a district creation that borrowed the best parts of both the Understanding by Design model and Madeline Hunter's 7 steps in lesson plan

http://jfmueller.faculty.noctrl.edu/205/madelinehunter.htm http://www.d.umn.edu/~hrallis/courses/3204fa06/assignments/lessonplanning/ubd_template.htm



The biggest challenge when developing the EUTD was first differentiating what was essential to know, important to know and nice to know and developing the essential question for the unit.

single s	ubject ETUD Pla		
Note: Type in the gray area Unit Information	s.		
School:			
Grade/Subject:			
Topic/Theme:			
Estimated unit length Teacher(s):	n.		
2. Essential Question	now and be able to do		
andaras, and benc	chmarks identified for this unit? (includ	e attached rubrics, samples, an	Knowledge, Learning d grading criterla.)
aranaaras, ana benc	nmarks identified for this unit? (includ	e attached rubilcs, samples, an	
4. Teaching/Presentation,	/Student Learning Experiences		d grading criterla.)
		Establish what methods will be used for students to acquire the Estential Knowledge, Learning Standards and Benchmarks (Key Questions in Learon Pinaning, Sec Questions in Learon Pinaning, Sec Bioom's Taxamom')	
4. Teaching/Presentation, Subject	/Student Learning Experiences Establish the context: activating prior knowledge, providing background knowledge, unravelling	Establish what methods will be used for students to acquire the Essential knowledge. Learning Standards and Benchmarks (Key Question Constructions Wheel, and Question Constructions Wheel, and	d grading criterla.)
4. Teaching/Presentation,	/Student Learning Experiences Establish the context: activating prior knowledge, providing background knowledge, unravelling	Establish what methods will be used for students to acquire the Essential knowledge. Learning Standards and Benchmarks (Key Question Constructions Wheel, and Question Constructions Wheel, and	d grading criterla.)
4. Teaching/Presentation, Subject Printed Materials:	/Student Learning Experiences Establish the context: activating prior knowledge, providing background knowledge, unravelling	Establish what methods will be used for students to acquire the Essential knowledge. Learning Standards and Benchmarks (Key Question Constructions Wheel, and Question Constructions Wheel, and	d grading criterla.)
4. Teaching/Presentation, Subject Printed Materials: Supplies: Internet Sites:	/Student Learning Experiences Establish the context: activating prior knowledge, providing background knowledge, unravelling	Establish what methods will be used for students to acquire the Essential knowledge. Learning Standards and Benchmarks (Key Question Constructions Wheel, and Question Constructions Wheel, and	d grading criterla.)
4. Teaching/Presentation Subject Printed Materials: Supplies: Internet Sites: Other:	/Student Learning Experiences Establish the context: activating prior knowledge, providing background knowledge, unravelling	Establish what methods will be used for students to acquire the Essential knowledge. Learning Standards and Benchmarks (Key Question Constructions Wheel, and Question Constructions Wheel, and	d grading criteria.)
4. Teaching/Presentation Subject Printed Materials: Supplies: Internet Sites: Other:	/Student Learning Experiences Establish the context activating prior knowledge and experiences, unaveling contrains r Differentiated Instruction	Establish what methods will be used for students to acquire the Essential knowledge. Learning Standards and Benchmarks (Key Question Constructions Wheel, and Question Constructions Wheel, and	d grading criteria.)
. Teaching/Presentation, ubject Printed Materials: Supplies: nternet Sites; Dither: Accommodations fo	/Student Learning Experiences Extrabilish the context a citivaling prior knowledge and experiences, unaveling contrusions r Differentiated Instruction nt:	Establish what methods will be used for students to acquire the Essential knowledge. Learning Standards and Benchmarks (Key Question Constructions Wheel, and Question Constructions Wheel, and	d grading criteria.)

There were two versions of the ETUD template. Teachers had to use to move and adapt their current units and lessons to this newly adopted model.

There was a single subject template and an integrated subject version. Of course, since most teachers had singlecontent area units, that was the form that was primarily used.

And, there was no real plan for technology infusion at that point.

ote: Type in the gray areas.	
Unit Information	
School:	
Grade/Subject:	
opic/Theme:	
stimated unit length	
feacher(s):	
2. Essential Question	

To help teachers think more about the use of technology as an assessment tool, the library media specialists and the instructional technology specialists created a version of the integrated subject ETUD.

The top part was the same.

4. Teaching/Presentation/	Student Learning Experienc	-05					
Subject	Shadent Learning experiences Establish the context: activating prior knowledge, providing background knowledge and experiences, unraveling confusions		Establish what methods will be used for students to acquire the Essential Knowledge, Learning Standards and Benchmarks (Key Questions in Lesson Planning, the Question Construction Wheel, and Bloom's Taxonomy)		Independent studies		
Content Area							
Information Literacy							
Technology Liferacy		Camera Computers/Chr Digital camera DVD Player	omebooks re: (Click box adsheet	xes of all equipment bel Printer Printer Projection syste Scanner Speakers es of all software needed Image editing Audio editing Concept mappin		felevision/Monitor a felevision/Monitor a fideo camera /ideo conferencing nteractive whiteboa ocument camera Other: Veb page developm Vord processing fideo editing	equipment rd
		Online databas Web 2.0 tools		Coding tools		Other and specific a	pps:
		Printed Materials: Supplies:	-				
		Internet Sites:	-				
		Other:					
		Accommodation					
		Resource Stu	dent:				
		Non-Native I Speaker:	English				
		Gifted Stude	nt:				

However, they added both the information literacy and technology skills areas and included technology tools to pick from.

They left the content area blank, so the ETUD could be adapted for any subject area.

Integrated Studies ETUD Tem www.Type in the gray areas. Unit Information	plate				
School:					
Grade/Subject:					
Topic/Theme: Estimated unit length:	4. reaching/rresentation	Establish the context: activating prior	Establish what methods will be	Independent studies	
	Subject	knowledge, providing background	used for students to acquire the	independent studies	
Teacher(s): Lesential Knowledge, Learning Standard(s) and Benchmarks What students will know and be able to do Technology Litracy Know Students will demonstrate knowledge and skills in the use of the computer an		knowledge and experiences, unraveling confusions	Essential Knowledge, Learning Standards and Benchmarks (Key Questions in Lesson Planning, the Question Construction Wheel, and Bloom's Taxonomy)		
Able to do: 175 1.18 Insert image (e.g. graphics, clip art, tables) from other files into word- 175 1.23 Create an original spreadsheet, entering simple formulas 175 3.8 Organize data that is collected using a variety of tools.	Content Area				
Information Literacy Know Students will demonstrate knowledge and skills in searching for a Creative Cor					
Able to do: Able to do: 4.20 Using a provided forfant, create correct citations for text and images, 4.20 Using a provided forfant, create correct 2.3 With assistence present a final product using an appropriate format 7.1 Use a provided checklist or rubric to determine that project is complete an	Information Literacy	Students will have had practice locating	Demonstration and lecture	Students will be encouraged	
	information Eneracy	students win mave nad practice rocating the dropdown menu in Google Images that leads to the Creative Commons licensed images.	Demonstration and rectire Screencast of the process of locating the image as well as the attribution information Practice	students will be encouraged wrap the text around the imag once resized and place the attribution text directly below the image in the report	
	Technology Literacy	Students will already have experience using the menu/toolbar to format the appearance of documents; students will be reminded about using a spreadsheet to manipulate data; they will introduced to the concept of using both of these pieces of software to create a document with supporting data imbedded in it	Demonstration and lecture Construct a document Explain the process	Students will be encouraged try to embed, rather than cop the spreadsheet information into the word processing document to demonstrate the real-time changes that occur	

This group of librarians and tech teachers, from grades K-8, then looked at the technology and information literacy standards and chose the ones that they felt a classroom teacher could handle on their own with a cart of devices or in a lab.

They then created 4 project-based assessments at each grade level that were content-neutral, but included the tech and information literacy components.

GRADING RUBRIC	Exceeds Expectations	Meets Expectations	Does Not Meet Expectations	Not Present						
Students will locate a CC-licensed image and	The student includes the image, the attribution is	The student includes the image, the attribution is	The student includes th image but the correct	EXEMPL. Science	AR OF COMPL	ETED WORD PRO	CESSING DOCUMENT WIT	TH INSERT	TED SPREADSHEET AND IMA	GE
the attribution for such and insert both into the document Students will create a	below the image, and the text is wrapped around the image to provide a better viewing experience. The spreadsheet includes	below the image,	attribution is not includ	Inter Harriane Karria was one of the most powerful furnicines to bit the coast of the United States in recorded meteorological history. The wind speed reached up to 155 miles per boar, making it a Category 5 sorem. During August of 2005, there were six furnicanes, roopical depressions, and topoical sorms. Each of these types of weather centrals categories and average wind speed. Following is a spreaddheer that lists the drom and the total average length of daration and average wind speed.						
Students will create a spreadsheet with row and column headings Students will use menus	The spreadsheet includes descriptive row and column headings with color/shading.	The spreadsheet includes descriptive row and column headings. The spreadsheet includes	The spreadsheet includ row and columns that have headers that may : be meaningful. The spreadsheet contai							
and toolbar items to add borders to their spreadsheet.		both inside and outside borders.	some borders, but not a cells are bordered.		ita for August 21					
Students will include a row/column with sum/avg of data in the spreadsheet		The spreadsheet includes the use of the SUM/AVG functions in the summary row.	Some columns have sum/avg functions utilized.	Name Harvey Irene Ten	Type T storm Hurricane T depression	Duration (days) 7 14 2	Top speed (mph)	65 105 35		
Students will enter data into the cells of the spreadsheet	Data is in the cells is added with background colors.	The spreadsheet includes entered data in each cell.	Some cells of the spreadsheet are empty.	Jose Katrina Lee Average	T storm Hurricane Istorm	3 9 2 6.166666667		50 175 40 133333		
Students will create a word processing document with a minimum of one paragraph	The word processing document includes advanced formatting functions (change in font, etc.)	The word processing document adheres to proper format and includes an opening paragraph.	The word processing document includes only brief amount of information.	of Gourse. http://www.wunderground.com/tropical/sumat.html of Usafter:Underground_com/tropical/sumat.html Usafter/Underground_com/tropical/sumat.html						
Students will copy-and- paste their spreadsheet into the word processing document and resize as	Students embed the spreadsheet into the word processing document so data is changeable by	The spreadsheet is inserted after the opening paragraph in the word processing document and	The spreadsheet is inserted in the incorrec place in the word processing document o	Harricane Karima, which made the average number of days of the events number over six days. In addition, the very high top speed of word becoment of the strange speed of these wather events to over security-cipht number over six days. In addition, the very high top speed of kore of the strange speed of these wather events to over security-cipht number over six days. In addition, the very high top speed of kore of the strange speed of these wather events to over security-cipht number over six days. In addition, the very high top speed of kore over the strange speed of these wather events to over security-cipht number over six days. In addition, the very high top speed of kore over the strange speed of the strange speed of the strange speed security of the strange speed of the strange speed of the strange speed security of the strange security of the str						and peed of
necessary Students will add an additional paragraph of information following their pasted spreadsheet.	edits to the spreadsheet. The additional paragraph includes advanced formatting functions (change in font, etc.)	re-sized if necessary. The additional paragraph is added after the inserted graph and follows proper format.	not resized for easy viewing. The additional paragray includes only a small b of information and/or i added in the incorrect place.	- Hard			Comparison of the second			
				North Contraction	(teal)/ Security Breatty be					

They also included a rubric and an exemplar assessment, as well as how-to instructions for the teacher.



We then had the teachers come together by grade level in computer labs, and, take a single discipline ETUD and move it into the new format with a technology assessment. Then, the teachers created the technology exemplar for that unit with support from both the computer teachers and library media specialists. The idea is that they would feel comfortable supporting students creating the same or similar assessment.