

Transforming Teaching and Learning with Technology

Instructional Technology Module Five

Course Description

Using technology effectively means setting goals beyond student engagement. Teachers can increase student understanding by incorporating technology into their instruction. This professional development module highlights innovative web-based instructional resources and as well as ways technology can promote effective dialogue among teachers, students, and families.

Competencies

Upon completion of this course, participants will be able to

- Identify benefits of teaching and communicating with technology
- Use web-based resources available to teachers
- Apply course concepts to their classroom practice

Materials

All materials are accessed via the [CaseNEX website](#) using the PIN provided and the user name/password you create.

All readings listed can be found by going to *Class Materials*→*Virtual Library*→*Readings (Search)*.

If you do not have the most recent versions of the following software, please download each from the given sites.

- [RealPlayer](#)
- [Adobe Reader](#)
- [QuickTime](#) (caroline, please remove this and add WMP to all)

Cases Used

- Plymouth-Whitemarsh High School

Course Schedule

Find session dates by selecting *Syllabus* on the top menu bar. For typical courses, final Discussions, Journals, and Workbooks are due by Saturday at midnight unless otherwise noted. Please see the News Flash for any alterations of the course schedule posted by your instructor.

Introductory Session

Exploring the CaseNEX Site

Complete these tasks prior to the beginning of Session 1.

Readings

Read the course requirements, paying special attention to the Case-Analysis and Workbook Assignment Rubrics. They will be used by your instructor throughout the course to evaluate assignments where appropriate.

Discussion

Post one entry introducing yourself to your classmates. Describe your experiences and comfort-level using technology in the classroom. (100 words or fewer)

Journal

What are ways you have used technology as a communication tool with students, parents, and colleagues? What have been the positive and negative **consequences** of this type of communication? (100 words or fewer)

Note

Use CaseMail to send a note to your instructor stating that you will be taking this course. To do so, click on CaseMail on the top menu bar and then 'Click here to create a new message.' Use the marked link to look up an address. Continue linking down until you see the class list. Select the instructor's name and then compose your message and hit 'Post Message.'

Session 1

Teaching with Technology

Case

- Plymouth-Whitemarsh High School, *Giving up the Chalk*

Readings

- Cognitive Tools
http://projects.coe.uga.edu/epltt/index.php?title=Cognitive_Tools
- How does Technology Influence Student Learning?
- 23 Learning 2.0 Things <http://plcmcl2-things.blogspot.com/>
- Wiki as a Teaching Tool <http://ijkl.org/Volume3/IJKLOv3p057-072Parker284.pdf>

Additional Resources

- How-to Articles from Microsoft
<http://www.microsoft.com/education/howto.msp>
- Teaching with Technology: Lesson Plans

Discussion

Review the Roles of Cognitive Tools section in Table 1 of the reading "Cognitive Tools." Categorize the various technologies evident in the case into one of the four roles and discuss the **consequences** of these technologies on students and staff at Plymouth-Whitemarsh High School. Using your own **knowledge** about effective teaching models and strategies, identify ways the case illustrates how the use of technology may lead to the development of higher-order thinking and problem-solving skills in students.

Journal

Select and complete 3-4 web-based exercises from this session's reading "23 Learning 2.0 Things." Reflect on your experiences completing these tasks and identify the specific **knowledge** you gain from each exercise and how you might use these tools in your classroom.

Note

Check your CaseMail (linked from top menu bar) and News Flash (on the right when you login) for notes from your instructor every time you log on to the site.

Session 2

Encouraging Web-Based Communication

Case

- Plymouth-Whitemarsh High School

Readings

- Blog Rules <http://www.edtechmag.com/k12/issues/november-december-2006/blog-rules.html>
- Teacher Designed Web Pages as a Classroom Tool <http://my-ecoach.com/online/webresourcelist.php?rlid=5742>

Additional Resources

- Web 2.0 and Teaching: A Brief Intro
http://docs.google.com/View?docid=dgjp7zrm_9fdnz5p

Discussion

Focusing on the case video, identify areas where teachers at Plymouth-Whitemarsh, both inside and outside the classroom, use paper-based activities or face-to-face communication. Recommend **actions** they might take to increase efficiency by moving to web-based methods. Identify the positive and negative **consequences** of these methods.

Journal

Share the ways your school trains and supports teachers who integrate technology into their classrooms. Considering the **perspectives** of all teachers, what would it specifically take for some of your colleagues to “give up the chalk?”