

# **Instructional Technology Services (ITS)**

## **List of Recommended 21<sup>st</sup> Century Skills**

### **SY 2007-2008**

*Each of the following Instructional Technology Services offerings, collectively or individually, has been developed to support effective integration of technology into curriculum with a focus on 21<sup>st</sup> century skills development.*

#### **1. Online Student Profile**

Online student profiles provide a formative snapshot or summative assessment of student achievement. In contrast to traditional paper-based student portfolios, online student profiles support a paperless environment and are easy to duplicate and transport. Writing evidence and multimedia projects can be easily uploaded and published for a global audience. ITS will provide training for and provide support to teachers who wish to implement online student profiles in the classroom.

***ITS training for and on-going support to teachers who wish to implement online student profiles to assess student progress and learning will include:***

- introducing an online student profile application;
- logging into the online profile server;
- creating student portfolio accounts;
- creating a bio;
- adding subject-area categories;
- scanning, importing and uploading best works;
- reflecting on best works;
- expressing and sharing thoughts through journals;
- downloading profile.

**Note:**

ITS is proposing to use the Pupil Pages (<http://www.pupilpages.com>) online portfolio tool. Cost for the Pupil Pages service is \$800 for a district license plus \$5 per student. ITS is proposing to cover the cost of the district license, and pay for two classes at each campus to pilot integrating online profiles. ITS staff will be available to demo and train on the product at each campus prior to implementation.

**NETS-S Alignment:**  
Communication & Collaboration  
Technology Operations and Concepts

**Technology Integration/ 21<sup>st</sup> Century Skills Alignment:**  
Design and Develop  
Effective Communication

## **2. Integrating the NEW Internet to Support Teaching and Learning**

The NEW Internet or Web 2.0 provides teachers and students powerful and effective web-based applications that serve the information to you, the user. Learn how to effectively integrate these applications. interact with online information and collaborate with others to enhance the teaching and learning experience.

***ITS will support the NEW Internet by:***

- Providing faculty in-service training on the NEW Internet or Web 2.0 concept.
- Providing integration support for NEW Internet or Web 2.0 applications throughout curriculum.

**Note:**

ITS will utilize multi-modal training methods/strategies to deliver training to faculty at each campus.

<b>NETS-S Alignment:</b> Creativity and Innovation Communication and Collaboration Research and Information Fluency	<b>Technology Integration/ 21<sup>st</sup> Century Skills Alignment:</b> Identifying & Evaluating Design & Develop Digital Literacy Effective Communication Inventive Thinking
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## **3. Analog Parents and Digital Children**

This parent-focused seminar is designed to highlight differences in the way today's digital or media generation learn compared to previous generations. The seminar will also inform parents of current social networking trends and tools, and familiarize them with technology resources that are available to students here at KS. Finally, parents will discover how they can support ethical and safe use of technology in the home to extend the learning experience beyond school.

***ITS will provide demonstrations and/or hands-on training of online resources. Topics may include:***

- Digital Literacy
- Copyright & Ethics
- Social Networking & Online Communities

**Note:**

ITS will be responsible for creating all training materials, leading initial training sessions with the intent of developing trainers at each campus to carry the program forward.

<b>NETS-S Alignment:</b>	<b>Technology Integration/ 21<sup>st</sup> Century Skills Alignment:</b> Identifying & Evaluating
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#### 4. Online Content Management Systems (CMS)

CMS is a digital system of processes and technologies that support the evolutionary life cycle of digital information. Digital information can be referred as content or more precisely as “digital content.” Digital content takes on many forms as text, documents, photos (graphics), multimedia files (audio or video), email, websites (web pages) or any other types of data which follows a content lifecycle which requires management. Digital content has a lifecycle consisting of six phases: create, update, publish, translate, archive and retire. CMS is a collaborative process that involves the content author, editor, publisher, administrator, webmaster and consumer. CMS can be secured at the file, group, or the user level, so sensitive documents can be available for only those who are given access. Users may access files from school, home, or anywhere in the world via the internet. Revisions are easy, and updates are immediate. CMS not only alleviates the cost of paper, but of printing and copying equipment as well. Add the cost of file cabinets, office real estate, and man-power, and the cost of maintaining a paper system becomes unmanageable. Most importantly, going paperless is environment-friendly.

***ITS will support the roll-out of a digital system of communication by providing training to all KS users in education in the following:***

- Communication Software & Webmail
- Web Design
- Online Student Information
- Student Portfolios

**Note:**

ITS will be responsible for developing training material to include printed material, online tutorial resources, and training courses.

<b>NETS-S Alignment:</b>	<b>Technology Integration/ 21<sup>st</sup> Century Skills Alignment:</b> Design & Develop Effective Communication High Productivity
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#### 5. Internet Safety

ITS is committed to empowering students, teachers and parents to make the Internet a safer place. With the resources provided by I-Safe, a non-profit foundation dedicated to protecting the online experiences of youth, ITS will facilitate meaningful, informative discussions in the fight to safeguard our children’s online experience through parent training and online training modules.

<b>NETS-S Alignment:</b> Digital Citizenship	<b>Technology Integration/ 21<sup>st</sup> Century Skills Alignment:</b> Digital Literacy
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## 6. Publishing for a Global Audience

Global Audience is interchangeable with Global Community and Online Community. A community is defined as “the direct and interactive elements of a web site” (Bradley Kirkland, Online Publisher). “Polls, surveys, chat rooms, message boards (also known as “forums”), discussion lists, and any other functionality that allows your audience to interact with you and other visitors to your site fall into this category.” People participate in online communities to share ideas and experiences, to obtain information, and to network with other community members for personal and professional reasons. Therefore, creating a class website is a suitable method for communicating and publishing class information that students and parents can easily access.

***ITS will support Web Publishing by:***

- Providing B credit courses focused on integrating web publication in education
- Providing support to teachers who integrate web publishing into their curriculum

<b>NETS-S Alignment:</b>	<b>Technology Integration/ 21<sup>st</sup> Century Skills Alignment:</b>
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## 7. Technology Learning Communities (TLC): Teachers Mentoring Teachers

The Technology Learning Communities (TLC) is a professional development model based on the Technology Study Group (TSG) model (Gora, K. and Hinson, J., 2003-2004, *Learning & Leading with Technology*; vol. 31, no. 4). TLC is designed to encourage teachers to teach and learn from each other in a supportive environment, where the activities are ongoing, relevant, and targeted to help its community participants meet specific teaching and learning goals. TLC also provides teachers the opportunity to lead in-house professional development and empower colleagues to integrate technology into their teaching practices confidently and effectively. A mentoring program like TLC will also help to leverage the services that ITS currently provides all KS campuses.

***ITS will support teachers who wish to mentor by:***

- *advising and providing as-needed training;*
- *developing a communication process for participating mentors ;*
- *developing an accountability process with the coordinator from Unit;*
- *providing mutually agreed-upon technology tools as compensation.*

**Note:**

ITS will be responsible for creating all training materials, leading initial training sessions with the intent of developing trainers at each campus to carry the program forward.

<b>NETS-S Alignment:</b>	<b>Technology Integration/ 21<sup>st</sup> Century Skills Alignment:</b>
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## 8. Digital Literacy

Digital Literacy is the ability to comprehend and identify, from a wide range of formats and tools, the appropriate use of technology related to productivity, presentation and information gathering. For educators, digital literacy also encompasses the incorporation of teaching strategies that support learning and communication that are relevant for today's digital generation of students. With online access and IM being the norm amongst kids today, it is essential that we provide digital literacy education and support teachers in incorporating learning environments that support and are relevant to digital literacy in the classroom.

***ITS will provide support for digital literacy by:***

- Providing faculty in-service training and B credit courses on Digital Literacy
- Communicating educational technology trends
- Providing guidance for Digital Literacy in specific curricula areas

**Support for Maui and Hawaii Campus:**

For Maui and Hawaii Campus, ITS is proposing to do a combination of onsite training sessions for those wishing to be tech mentors. PolyCom video conferencing technology will be used to conduct follow up meetings and project planning, allow ITS staff to meet with teachers on a regular basis for implementation and support of the technology priorities.

<b>NETS-S Alignment:</b> Research and Information Fluency Digital Citizenship Technology Operations and Concepts	<b>Technology Integration/ 21<sup>st</sup> Century Skills Alignment:</b> Digital Literacy
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## 9. Creative Multimedia

Multimedia enhances teaching and learning in the classroom. Creative Multimedia means that computer information can be represented through audio, graphics, image, video and animation in addition to traditional media (text and graphics.) Multimedia allows students to construct their own learning. An integral component of project-based learning, multimedia derives power through the weaving of digital photo images, video, digital copyright-free music, and narrative with creative thinking. At Kamehameha, students develop critical thinking and collaboration skills through project-based learning via digital multimedia.

***ITS will instruct, coordinate, and support the classrooms.***

- ITS will provide training and instruction throughout the school year and/or in the summer.
- ITS will continue to provide support to teachers who integrate multimedia into their

projects and products.

<b>NETS-S Alignment:</b>	<b>Technology Integration/ 21<sup>st</sup> Century Skills Alignment:</b>