

# Technology Use in Classrooms

	<b>Tier 1: Teacher Productivity Station</b> (Supports the learning experience)	<b>Tier 2: Instructional Presentation and Student Productivity</b> (Enhances the learning experience)	<b>Tier 3: Student-Centered Learning Classroom</b> (Transforms the learning experience)
<b>Observable and Best Practices</b>	<p>This tier focuses on the teacher using technology to get his/her job done. The teacher:</p> <ul style="list-style-type: none"> <li>• Produces learning materials more effectively</li> <li>• Communicates quickly with e-mail</li> <li>• Finds instructional resources on the Internet</li> <li>• Keeps / Organizes student information, grades more effectively</li> <li>• Classroom Website: Post grades, classroom information, calendar, information for parents, etc.</li> </ul>	<p>This tier involves teacher facilitation of large group learning activities and student productivity use of (word processing, etc.) technology:</p> <ul style="list-style-type: none"> <li>• Brainstorm and share ideas</li> <li>• Deliver visual presentations</li> <li>• Represent information visually</li> <li>• Conduct one-computer classroom lessons</li> <li>• Facilitate group discussions and lessons</li> <li>• Students write papers, reports on computer or smart keyboard (DANA, Neo)</li> <li>• Classroom Website: Post educational sites and resources</li> </ul>	<p>This tier promotes student learning and the use of technology through project based learning:</p> <ul style="list-style-type: none"> <li>• Inquiry-based, essential questions</li> <li>• Research, analyze data and problem-solve</li> <li>• Write, develop and publish products</li> <li>• Invent products through programming</li> <li>• Creating and using WebQuests and Curriculum Pages</li> <li>• Authoring/reviewing work online</li> <li>• Classroom Website: Post student work and projects (SHARE)</li> </ul>
<b>Professional Development Possibilities</b>	<ul style="list-style-type: none"> <li>• Office-suite software training</li> <li>• Internet I (searching for information, copyright, citations)</li> <li>• Internet II (finding instructional resources on the Internet)</li> <li>• MarcoPolo awareness training</li> </ul>	<ul style="list-style-type: none"> <li>• Presentation systems/techniques</li> <li>• Presentation software (PowerPoint, Keynote)</li> <li>• Graphic Organizer (Inspiration)</li> <li>• One-computer classroom strategies</li> <li>• Group Processes Program-Solving software (Decisions/Decisions, etc.)</li> <li>• Using handhelds and smart keyboards for writing and other student projects</li> </ul>	<ul style="list-style-type: none"> <li>• Using tech. in project-based learning</li> <li>• Graphics and video-editing</li> <li>• Web publishing</li> <li>• WebQuests and Curriculum Pages</li> <li>• Using graphing calculators, probeware and/or robotics for problem-solving</li> <li>• Internet safety for students</li> </ul>
<b>Required Conditions</b>	<ul style="list-style-type: none"> <li>• Computer network</li> <li>• Technical Support ensuring successful operation of computers and network</li> <li>• Administrative expectations for technology use for administrative purposes</li> </ul>	<p>Conditions in Tier 1, plus:</p> <ul style="list-style-type: none"> <li>• Good access to computers for student use</li> <li>• Technical Support for projector/document camera use</li> <li>• Administrative expectations for technology use for instructional purposes</li> </ul>	<p>Conditions in Tier 2, plus:</p> <ul style="list-style-type: none"> <li>• School-based technology integration coach</li> <li>• Ubiquitous access to computers for student use</li> <li>• Opportunity for publishing and sharing online</li> <li>• Administrative expectations and support for technology use for project-based learning</li> </ul>
<b>Technology Resources</b>	<p>Standard technology resources, including:</p> <ul style="list-style-type: none"> <li>• Standards-based computer</li> <li>• Access to at least one printer</li> <li>• Internet access</li> <li>• Office suite productivity software</li> <li>• MarcoPolo and other online teacher lesson resources (use as is)</li> <li>• Access to student management software</li> </ul>	<p>Resources in Tier 1, plus:</p> <ul style="list-style-type: none"> <li>• Document camera</li> <li>• Projector</li> <li>• Inspiration (graphic organizing software)</li> <li>• MarcoPolo, WebQuest and other online teacher lesson resources from the Internet (adapt and use)</li> <li>• Printer(s) in classroom (BW Laser) (Color Inkjet)</li> </ul>	<p>Resources in Tier 2, plus selected:</p> <ul style="list-style-type: none"> <li>• Multimedia production technology (digital camera, camcorder, video-editing software, etc.)</li> <li>• Web publishing software</li> <li>• Handhelds, graphing calculators</li> <li>• Science Probeware</li> <li>• Robotics</li> <li>• High tech classrooms or computer labs</li> </ul>
<b>Estimated Costs</b> (Excluding tax)	<p>Computer ..... \$1,000            Printer (or share of networked laser printer) .. \$200            Office Suite ..... \$56</p>	<p>Document Camera ..... \$499            Projector ..... \$774            Cart/Projector Mount..... \$125            Inspiration ..... \$30            Portable DANA Lab ..... \$12,000            Portable Laptop Lab ..... \$45,000</p>	<b>Depends on solution(s) selected.</b>
<b>Other Supportive Technologies</b>		<ul style="list-style-type: none"> <li>• Electronic Whiteboards..... \$1500</li> <li>• Audience Response Systems..... \$1500</li> <li>• Classroom Audio System ..... \$320</li> </ul>	