

## 21<sup>st</sup> Century Skills, eLibrary, and BookCarts for Differentiated Learning

| 21 <sup>st</sup> Century Skills              | Skills Definitions   | eLibrary Support Examples   |
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| <b>Creativity and Innovation</b>             | <ol style="list-style-type: none"> <li>1. Demonstrating originality and inventiveness in work.</li> <li>2. Developing, implementing and communicating new ideas to others.</li> <li>3. Being open and responsive to new and diverse perspectives.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Provide <a href="#">models</a> for a variety of student reports and presentations.</li> <li>2. Provide 7 media types +websites for all curriculum areas and levels.</li> </ol>  |
| <b>Critical Thinking and Problem Solving</b> | <ol style="list-style-type: none"> <li>1. Exercising sound reasoning in understanding.</li> <li>2. Making complex choices and decisions.</li> <li>3. Understanding systems interconnections.</li> <li>4. Identifying and asking significant questions that clarify various points of view and lead to better solutions.</li> <li>5. Framing, analyzing and synthesizing information in order to solve problems and answer questions.</li> </ol>  | <ol style="list-style-type: none"> <li>1 &amp; 2. Provide <a href="#">models and strategies</a> for activities that integrate the <a href="#">Bloom Taxonomy</a> for higher-order thinking.</li> <li>2 &amp; 5. Provide teachers and students with <a href="#">activities</a> that engage and challenge them to use critical thinking to make informed choices to solve problems.</li> <li>4. Provide <a href="#">professional development</a> that focuses on motivating student research by brainstorming and/or addressing essential questions for critical thinking.</li> </ol> |
| <b>Communication</b>                         | <ol style="list-style-type: none"> <li>1. Articulate thoughts and ideas clearly and effectively through speaking and writing.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Each inquiry-based learning activity provides an opportunity and a model that integrates critical thinking with both <a href="#">oral and written reports</a>.</li> </ol>   |
| <b>Collaboration</b>                         | <ol style="list-style-type: none"> <li>1. Demonstrating ability to work effectively with diverse teams.</li> <li>2. Exercising flexibility and willingness to be helpful in making necessary compromises to accomplish a common goal.</li> <li>3. Assuming shared responsibility for collaborative work.</li> </ol>  | <ol style="list-style-type: none"> <li>3. <i>My List</i> can be used by students to share selected resources by emailing links and descriptions to each other.</li> <li>3. eLibrary <a href="#">BookCarts</a> can be created or copied and adapted to include team activities and reports.</li> </ol>   |
| <b>Information Literacy</b>                  | <ol style="list-style-type: none"> <li>1. Accessing information efficiently and effectively, evaluating information critically and competently, and using information accurately and creatively for the issue or problem at hand.</li> <li>2. Possessing a fundamental understanding of the ethical and legal issues surrounding the access to and use of information.</li> </ol>  | <ol style="list-style-type: none"> <li>1. Every inquiry-based learning activity provides opportunities for students to learn these fundamentals.</li> <li>2. The use of citations in all ProQuest models for reports and presentations emphasizes ethical and legal concerns.</li> <li>2. The <a href="#">Citation Tool</a> and easy access to citation information facilitates including correct citations.</li> </ol>   |
| <b>Media Literacy</b>                        | <ol style="list-style-type: none"> <li>1. Understand how media messages are constructed, for what purposes and using which tools, characteristics and conventions.</li> <li>2. Examine how individuals interpret messages differently, how values and points of view are included or excluded, and how media can influence beliefs and behaviors</li> <li>3. Possess a fundamental understanding of the ethical/legal issues surrounding the access and use of information.</li> </ol> | <ol style="list-style-type: none"> <li>2. eLibrary provides <a href="#">8 text and visual media</a> types to help teacher help students compare and contrast the impact of media on bias and the expression of ideas.</li> <li>3. The <a href="#">Citation Tool</a> and easy access to citation information facilitates including correct citations.</li> </ol>   |

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| <b>ICT Literacy</b>                     | 1. Using digital technology, communication tools and/or networks appropriately to access, manage, integrate, evaluate and create information in order to function in a knowledge economy.<br>2. Using technology as a tool to research, organize, evaluate and communicate information and the possession of a fundamental understanding of the ethical/legal issues surrounding the access and use of information.   | <b>1. Every inquiry-based learning activity provides these essential 21<sup>st</sup> Century skills.</b><br><br><b>2. The use of citations in all ProQuest models for reports and presentations emphasizes ethical and legal concerns.</b><br><br><b>2. The <a href="#">Citation Tool</a> and easy access to citation information facilitates including correct citations.</b>                                |
| <b>Flexibility and Adaptability</b>     | 1. Adapting to varied roles and responsibilities.<br>2. Working effectively in a climate of ambiguity and changing priorities.  | <b>1. Choosing from a variety of media and <a href="#">presentation methods</a> to express original and reasoned thought on real-world issues related to the curriculum.</b><br><br><b>2. Learning how to learn beyond the textbook and multiple choice testing.</b>  |
| <b>Initiative and Self-Direction</b>    | 1. Monitoring one’s own understanding and learning needs.<br>2. Going beyond basic mastery of skills and/or curriculum to explore and expand one’s own learning and opportunities to gain expertise.<br>3. Utilizing time efficiently and managing workload.<br>4. Defining, prioritizing and completing tasks without direct oversight.<br>5. Demonstrating initiative to advance skill levels towards a professional level.<br>6. Demonstrating commitment to learning as a lifelong process. | <b>2. Provide a variety of <a href="#">credible content and tools</a> that help students to understand and solve academic and personal problems.</b><br><br><b>3. Use <i>My List, Reference, and Citation</i> tools to manage information.</b><br><br><b>6. Provide <a href="#">inquiry-based learning activities</a> that expand, enrich, and update learning beyond the textbook— independent learning.</b> |
| <b>Social and Cross-Cultural Skills</b> | 1. Working appropriately and productively with others.<br>2. Leveraging the collective intelligence of groups when appropriate.<br>3. Bridging cultural differences and using differing perspectives to increase innovation and the quality of work.  | <b>1. eLibrary <a href="#">BookCarts</a> and <a href="#">CourseCarts</a> provide teachers with a tool to <i>differentiate learning</i> by content, process, and product so that students can work together in ways that address their learning styles.</b>  |

Supporting Structures -- Access to the Web and personal computing

- Brainstorming, concept mapping software
- Digital images
- Digital production tools (digital photography and video)
- Graphics software (drawing, painting, image editing)
- Interactive online sites
- Multimedia resources (clip art, video, sound, animations)
- Ongoing professional development on the promotion of an inquiry approach through the use of technology
- Online authoring, brainstorming, graphics, spreadsheet and presentation software
- Online collaboration, conferencing, communication tools
- Online sources
- Presentation tools
- Print resources including books, newspapers, magazines and maps
- Productivity/publishing tools (ex. word processing, page layout, etc.)
- Search engines and online search strategies
- Software applications for creating information content including Web authoring, podcasting, video and other audio tools
- Spreadsheet and graphing software
- TV, Video and DVD
- Video editing software
- Web publishing software
- Word processing software