

# Industrial Technology

## Architectural Drafting

2007

Nature of Technology	Technology and Society Interaction	Technology for Productivity	Technology and Communications Applications
<p><b>Definition:</b> Students learn that technology is exponential, driven by history, design, and commercialization shaped by need, creative/inventive thinking, economic factors and cultural influences.</p>	<p><b>Definition:</b> Students recognize and understand the impact technology has on society and history. Students engage in ethical use of technology</p>	<p><b>Definition:</b> Students learn the operation of technology through the use of technology and productivity tools.</p>	<p><b>Definition:</b> Students use an array of technologies and apply design concepts to communicate with multiple audiences, acquire and disseminate information and enhance learning.</p>
<p><b>Questions:</b> What is technology? What makes technology useful?</p>	<p><b>Questions:</b> What are ethical ways for using technology? How does technology affect technology?</p>	<p><b>Questions:</b> What tools increase industry productivity? How are technology tools used to increase productivity?</p>	<p><b>Questions:</b> Is technology an effective way to communicate and problem solve?</p>
<p><b>Indicators:</b> 1. Understand the influence of architecture throughout history on current design 2. Recognize how construction and architecture are influenced by emerging technology 3. Apply technological knowledge in decision making 4. Examine and apply other fields of study when solving architectural problems</p>	<p><b>Indicators:</b> 5. Interpret and practice responsible citizenship relative to the environment and human interaction 6. Recognize the need for building codes and their benefit to community 7. Demonstrate an understanding of the relationship between people, architecture and the environment 8. Recognize emerging trends in architecture</p>	<p><b>Indicators:</b> 9. Understand how software increases productivity 10. Identify, select and apply appropriate technology tools and resources to produce creative works, and to construct technology-enhanced models</p>	<p><b>Indicators:</b> 11. Apply appropriate communication design principles in presented projects 12. Create, publish and present information, utilizing formats appropriate to architectural presentations 13. Identify drawings needed in an architectural plan; select appropriate tools and design collaborative interactive projects and activities to communicate with others.</p>

Technology and Information Literacy	Design	Designed World
<p><b>Definition:</b> Students engage information literacy strategies, use the Internet technology tools and resources, and apply information management skills to answer questions and expand knowledge.</p>	<p><b>Definition:</b> Students apply problem- solving strategies demonstrating the nature of design, the role of engineering, and the role of assessment.</p>	<p><b>Definition:</b> Students understand their role in the designed world.</p>
<p><b>Questions:</b> What makes a person technologically literate? How is technology applied?</p>	<p><b>Questions:</b> What is the problem solving and design process?</p>	<p><b>Questions:</b> What processes and materials are used in industrial technology and how are they graphically represented?</p>
<p><b>Indicators:</b> 14. Identify architectural styles and their respective features 15. Apply a research process model to conduct research on the construction needs of architectural designs 16. Evaluate electronic and published resources related to construction, and determine their strengths and weaknesses</p>	<p><b>Indicators:</b> 17. Apply the problem solving design process as it pertains to architecture 18. Recognize the role of teamwork in engineering design and of prototyping in the architectural</p>	<p><b>Indicators:</b> 19. Classify, demonstrate, examine and appraise construction technologies 20. Classify, demonstrate, examine and appraise electrical and mechanical systems 21. Classify, demonstrate, examine and appraise manufacturing technologies</p>