

Industrial Technology

CAD I

2007

Nature of Technology	Technology and Society Interaction	Technology for Productivity	Technology and Communications Applications
<p>Definition: 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>Definition: Students recognize and understand the impact technology has on society and history. Students engage in ethical use of technology</p>	<p>Definition: Students learn the operation of technology through the use of technology and productivity tools.</p>	<p>Definition: Students use an array of technologies and apply design concepts to communicate with multiple audiences, acquire and disseminate information and enhance learning.</p>
<p>Questions: What is technology? What makes technology useful?</p>	<p>Questions: What are ethical ways for using technology? How does technology affect technology?</p>	<p>Questions: What tools increase industry productivity? How are technology tools used to increase productivity?</p>	<p>Questions: Is technology an effective way to communicate and problem solve?</p>
<p>Indicators: 1. Are able to communicate graphically 2. Decide between technologies used to communicate graphically 3. Relate the nature of drafting to the technology sector 4. Integrates drafting technology to maximize efficiency</p>	<p>Indicators: 5. Maximize usage of electronic media to graphically communicate 6. Understand the exponential growth of technology 7. Practice responsible use of technology</p>	<p>Indicators: 8. Effectively complete mechanical and electronic drawings 9. Understand the advantages of electronic storage 10. Demonstrate proficiency in a productivity tools (CAD, mechanical drawing, modeling) 11. Recognize state of the art technologies and their potential impact</p>	<p>Indicators: 12. Complete the problem solving process 13. Modifies solutions during design state 14. Presents projects graphically</p>

Technology and Information Literacy	Design	Designed World
<p>Definition: 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>Definition: Students apply problem- solving strategies demonstrating the nature of design, the role of engineering, and the role of assessment.</p>	<p>Definition: Students understand their role in the designed world.</p>
<p>Questions: What makes a person technologically literate? How is technology applied?</p>	<p>Questions: What is the problem solving and design process?</p>	<p>Questions: What processes and materials are used in industrial technology and how are they graphically represented?</p>
<p>Indicators: 15. Select proper technologies for productivity 16. Identify utilized technology 17. Recognize how drawing are used in the technology sector</p>	<p>Indicators: 18. Understand the value of team work 19. Utilize the design process to evaluate a final solution 20. Understand and apply research, development and experimentation to problem solving</p>	<p>Indicators: 21. Identify and understand materials used in industrial technologies 22. Identify graphic symbols that represent processes and materials</p>