

Ninth - Twelfth Grade Technology Standards and Objectives

<i>Objective</i>	<i>Novice</i>	<i>Partial Mastery</i>	<i>Mastery</i>	<i>Above Mastery</i>	<i>Distinguished</i>
<p>Standard 1: Basic Operations and Concepts (TEC.S.1)</p> <p>TEC.9-12.1.1 use data input skills appropriate to the task.</p> <p>TEC.9-12.1.2 demonstrate knowledge and appropriate use of hardware components, software programs, and their connections.</p>	<p>The student performing at the novice level demonstrates considerable need for the development of fundamental knowledge and skills, characterized by fragmented and incomplete performance in technology basic operations and concepts. Performance needs considerable development. The student requires considerable direction to use data input skills appropriate to the task and demonstrates basic knowledge of hardware components, software programs, and their connections.</p>	<p>The student performing at the partial mastery level demonstrates basic but inconsistent performance of fundamental knowledge and skills characterized by errors and or omissions in technology basic operations and concepts. Performance needs further development. The student requires assistance to use data input skills appropriate to the task and demonstrates knowledge of hardware components, software programs, and their connections.</p>	<p>The student demonstrates fundamental grade level or course knowledge and skills by showing consistent and accurate academic performance that meets the standard in technology basic operations and concepts. The student uses data input skills appropriate to the task and demonstrates knowledge and appropriate use of hardware components, software programs, and their connections.</p>	<p>The student demonstrates competent and proficient performance and shows a thorough and effective application of knowledge and skills that exceeds the standard in technology basic operations and concepts. The student uses data input skills appropriate to the task and demonstrates knowledge and appropriate use of hardware components, software programs, and their connections. The student performing at the above mastery level also assists others, employs troubleshooting strategies, and makes appropriate choices among technology systems and resources.</p>	<p>The student demonstrates exceptional and exemplary performance with distinctive and sophisticated application of knowledge and skills that exceeds the standard in technology basic operations and concepts. The student uses data input skills appropriate to the task and demonstrates knowledge and appropriate use of hardware components, software programs, and their connections. The student performing at the distinguished level also independently analyzes, evaluates and applies appropriate choices among technology systems and resources.</p>

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<p>Standard 2: Social, Ethical and Human Issues (TEC.S.2)</p> <p>TEC.9-12.2.1 practice ethical behavior in using computer-based technology for class assignments and projects.</p> <p>TEC.9-12.2.2 adhere to Fair Use and Multimedia Copyright Guidelines, citing sources of copyrighted materials in papers, projects and multi-media presentations.</p>	<p>The student demonstrates considerable need for the development of fundamental knowledge and skills, characterized by fragmented and incomplete performance in social, ethical and human issues in technology. Performance needs considerable development. Under supervision, the student practices ethical behavior in using computer-based technology for class assignments and projects. The student has a minimal understanding of Fair Use and Multimedia Copyright Guidelines, and rarely and/or inaccurately cites sources of copyrighted materials in papers, projects and multi-media presentations.</p>	<p>The student demonstrates basic but inconsistent performance of fundamental knowledge and skills characterized by errors and or omissions in social, ethical and human issues in technology. Performance needs further development. With assistance, the student practices ethical behavior in using computer-based technology for class assignments and projects. The student understands Fair Use and Multimedia Copyright Guidelines, and inconsistently cites sources of copyrighted materials in papers, projects and multi-media presentations.</p>	<p>The student demonstrates fundamental grade level or course knowledge and skills by showing consistent and accurate academic performance that meets the standard in social, ethical and human issues in technology. The student practices ethical behavior in using computer-based technology for class assignments and projects. The student adheres to Fair Use and Multimedia Copyright Guidelines, citing sources of copyrighted materials in papers, projects and multi-media presentations.</p>	<p>The student demonstrates competent and proficient performance and shows a thorough and effective application of knowledge and skills that exceeds the standard in social, ethical and human issues in technology. The student practices ethical behavior in using computer-based technology for class assignments and projects. The student adheres to Fair Use and Multimedia Copyright Guidelines, citing sources of copyrighted materials in papers, projects and multi-media presentations. The student performing at the above mastery level also recognizes the implications and consequences resulting from illegal and unethical behaviors among peers, family, and community regarding the use of technology and information.</p>	<p>The student demonstrates exceptional and exemplary performance with distinctive and sophisticated application of knowledge and skills that exceeds the standard in social, ethical and human issues in technology. The student practices ethical behavior in using computer-based technology for class assignments and projects. The student adheres to Fair Use and Multimedia Copyright Guidelines, citing sources of copyrighted materials in papers, projects and multi-media presentations. The student performing at the distinguished level also recognizes and articulates the implications and consequences resulting from illegal and unethical behaviors among peers, family, and community regarding the use of technology and information.</p>

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<p>Standard 3: Technology Productivity Tools (TEC.S.3)</p> <p>TEC.9-12.3.1 integrate advanced technology application skills in the use of the word processor, database and spreadsheet</p> <p>TEC.9-12.3.2 select and use appropriate technology tools to efficiently collect, analyze and display data that is relevant to class assignments.</p> <p>TEC.9-12.3.3 practice and refine knowledge and skills in databases in preparing classroom assignments and projects.</p> <p>TEC.9-12.3.4 create, publish, and present projects related to content areas using a variety of technological tools.</p>	<p>The student demonstrates considerable need for the development of fundamental knowledge and skills, characterized by fragmented and incomplete performance in technology productivity tools. Performance needs considerable development. Under supervision, the student demonstrates basic technology application skills in the use of the word processor, database, and spreadsheet. Under supervision, the student uses technology tools to collect and display data that is relevant to class assignments. Under supervision, the student practices knowledge and skills in databases in preparing classroom assignments and projects. Under supervision, the student creates, publishes, and presents projects related to content areas using some technological tools.</p>	<p>The student demonstrates basic but inconsistent performance of fundamental knowledge and skills characterized by errors and or omissions in technology productivity tools. Performance needs further development. With assistance, the student integrates technology application skills in the use of the word processor, database, and spreadsheet. With assistance, the student uses appropriate technology tools to collect and display data that is relevant to class assignments. With assistance, the student practices knowledge and skills in databases in preparing classroom assignments and projects. With assistance, the student creates, publishes, and presents projects related to content areas using a variety of technological tools.</p>	<p>The student demonstrates fundamental grade level or course knowledge and skills by showing consistent and accurate academic performance that meets the standard in technology productivity tools. The student integrates advanced technology application skills in the use of the word processor, database, and spreadsheet. The student selects and uses appropriate technology tools to efficiently collect, analyze and display data that is relevant to class assignments. The student practices and refines knowledge and skills in databases in preparing classroom assignments and projects. The student creates, publishes, and presents projects related to content areas using a variety of technological tools.</p>	<p>The student demonstrates competent and proficient performance and shows a thorough and effective application of knowledge and skills that exceeds the standard in technology productivity tools. The student fully integrates advanced technology application skills in the use of the word processor, database, and spreadsheet. The student selects and uses appropriate technology tools to efficiently collect, analyze and display data that is relevant to class assignments. The student practices and refines knowledge and skills in databases in preparing classroom assignments and projects. The student creates, publishes, and presents projects related to content areas using a variety of technological tools. The student at the above mastery level can also assist others in the use of technology tools and resources for managing and communicating personal/professional information.</p>	<p>The student demonstrates exceptional and exemplary performance with distinctive and sophisticated application of knowledge and skills that exceeds the standard in technology productivity tools. The student integrates advanced technology application skills in the use of the word processor, database, and spreadsheet. The student selects and uses appropriate technology tools to efficiently collect, analyze and display data that is relevant to class assignments. The student practices and refines knowledge and skills in databases in preparing classroom assignments and projects. The student creates, publishes, and presents projects related to content areas using a variety of technological tools. The student at the distinguished level independently analyzes, evaluates and applies innovative technology solutions for personal and academic productivity.</p>

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<p>Standard 4: Technology Communication Tools (TEC.S.4)</p> <p>TEC.9-12.4.1 use telecommunications and online resources for the purpose of communicating with audiences inside and outside of the classroom.</p>	<p>The student demonstrates considerable need for the development of fundamental knowledge and skills, characterized by fragmented and incomplete performance in technology communication tools. Performance needs considerable development. Under supervision, the student uses telecommunications and online resources for the purpose of communicating with audiences inside the classroom.</p>	<p>The student demonstrates basic but inconsistent performance of fundamental knowledge and skills characterized by errors and or omissions in technology communication tools. Performance needs further development. With assistance, the student uses telecommunications and online resources for the purpose of communicating with audiences inside and outside of the classroom.</p>	<p>The student demonstrates fundamental grade level or course knowledge and skills by showing consistent and accurate academic performance that meets the standard in technology communication tools. The student uses telecommunications and online resources for the purpose of communicating with audiences inside and outside of the classroom.</p>	<p>The student demonstrates competent and proficient performance and shows a thorough and effective application of knowledge and skills that exceeds the standard in technology communication tools. The student uses telecommunications and online resources for the purpose of communicating with audiences inside and outside of the classroom. The student performing at the above mastery level also collaborates with peers, experts and others using telecommunications and collaborative tools to synthesize and evaluate curriculum-related problems, issues and information, and to draw conclusions about the solutions or products for audiences inside and outside the classroom.</p>	<p>The student demonstrates exceptional and exemplary performance with distinctive and sophisticated application of knowledge & skills that exceeds the standard in technology communication tools. The student uses telecommunications and online resources for the purpose of communicating with audiences inside and outside of the classroom. The student performing at the distinguished level also makes inferences, determines cause/effect relationships, and formulates logical predictions about the curriculum-related problems, issues and information. Through telecommunication projects, students verify their thinking, support conclusions, & establish connections with previously studied projects.</p>

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<p>Standard 5: Technology Research Tools (TEC.S.5)</p> <p>TEC.9-12.5.1 use a variety of strategies to acquire information from electronic resources.</p> <p>TEC.9-12.5.2 conduct online research and evaluate the information found as to the validity, appropriateness, content and usefulness.</p>	<p>The student demonstrates considerable need for the development of fundamental knowledge and skills, characterized by fragmented and incomplete performance in technology research tools. Performance needs considerable development. Under supervision, the student uses strategies to acquire information from electronic resources. Under supervision, the student conducts online research and includes information with little assessment of its validity, appropriateness, content and usefulness.</p>	<p>The student demonstrates basic but inconsistent performance of fundamental knowledge and skills characterized by errors and or omissions in technology research tools. Performance needs further development. With assistance, the student uses a variety of strategies to acquire information from electronic resources. With assistance, the student conducts online research and evaluates the information found as to the validity, appropriateness, content and usefulness.</p>	<p>The student demonstrates fundamental grade level or course knowledge and skills by showing consistent and accurate academic performance that meets the standard in technology research tools. The student uses a variety of strategies to acquire information from electronic resources. The student conducts online research and evaluates the information found as to the validity, appropriateness, content and usefulness.</p>	<p>The student demonstrates competent and proficient performance and shows a thorough and effective application of knowledge and skills that exceeds the standard in technology research tools. The student uses a variety of strategies to acquire information from electronic resources. The student conducts online research and evaluates the information found as to the validity, appropriateness, content and usefulness. The student performing at the above mastery level analyzes and draws conclusions from electronic information sources and applies acquired knowledge logically to technology projects.</p>	<p>The student demonstrates exceptional and exemplary performance with distinctive and sophisticated application of knowledge and skills that exceeds the standard in technology research tools. The student uses a variety of strategies to acquire information from electronic resources. The student conducts online research and evaluates the information found as to the validity, appropriateness, content and usefulness. The student performing at the distinguished level synthesizes information to articulate new knowledge.</p>

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<p>Standard 6: Technology Problem-solving and Decision-making Tools (TEC.S.6)</p> <p>TEC.9-12.6.1 investigate and apply expert systems, intelligent agents, and simulations in real world situations.</p>	<p>The student demonstrates considerable need for the development of fundamental knowledge and skills, characterized by fragmented and incomplete performance in technology problem-solving and decision-making tools. Performance needs considerable development. Under supervision, the student investigates expert systems, intelligent agents, and simulations in real world situations.</p>	<p>The student demonstrates basic but inconsistent performance of fundamental knowledge and skills characterized by errors and or omissions in technology problem-solving and decision-making tools. Performance needs further development. With assistance, the student investigates and begins to apply expert systems, intelligent agents, and simulations in real world situations.</p>	<p>The student demonstrates fundamental grade level or course knowledge and skills by showing consistent and accurate academic performance that meets the standard in technology problem-solving and decision-making tools. The student investigates and applies expert systems, intelligent agents, and simulations in real world situations.</p>	<p>The student demonstrates competent and proficient performance and shows a thorough and effective application of knowledge and skills that exceeds the standard in technology problem-solving and decision-making tools. The student investigates and applies expert systems, intelligent agents, and simulations in real world situations. The student performing at the above mastery level also uses technology tools to construct new knowledge.</p>	<p>The student demonstrates exceptional and exemplary performance with distinctive and sophisticated application of knowledge and skills that exceeds the standard in technology problem-solving and decision-making tools. The student investigates and applies expert systems, intelligent agents, and simulations in real world situations. The student performing at the distinguished level also conceptualizes, designs, and implements problem solving and decision making technologies in the development of strategies for solving problems in the real world.</p>