

## Skills Comparison Chart

<b>AASL Standards for the 21<sup>st</sup>-Century Learner</b>	<b>Partnership for 21<sup>st</sup>-Century Skills</b>	<b>National Education Technology Standards and Performance Indicators for Students</b>
<p><b>1. Learners use skills, resources, &amp; tools to inquire, think critically and gain knowledge.</b></p>	<p><b>-Learning &amp; Innovation Skills</b>  <b>-Information, Media &amp; Technology Skills</b>  <b>-Life &amp; Career Skills</b></p>	<p><b>1. Creativity and Innovation:</b> Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.  <b>3. Research and Information Fluency:</b> Students apply digital tools to gather, evaluate, and use information.  <b>4. Critical Thinking, Problem Solving, and Decision Making:</b> Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.  <b>6. Technology Operations and Concepts:</b> Students demonstrate a sound understanding of technology concepts, systems, and operations.</p>
<p>1.1.1. Follow an inquiry-based process in seeking knowledge in curricular subjects, and make the real-world connection for using this process in own life.</p>		<p>3.a. Plan strategies to guide inquiry.            4.a. Identify and define authentic problems and significant questions for investigation.</p>
<p>1.1.2. Use prior and background knowledge as context for new learning.</p>		<p>1.a. Apply existing knowledge to generate new ideas, products, or processes.            6.d. Transfer current knowledge to learning of new technologies.</p>
<p>1.1.3. Develop and refine a range of questions to frame the search for new understanding.</p>	<p><b>Critical Thinking and Problem Solving:</b> Identify and ask significant questions that clarify various points of view and lead to better solutions.</p>	<p>4.a. Identify and define authentic problems and significant questions for investigation.</p>
<p>1.1.4. Find, evaluate, and select appropriate sources to answer questions.</p>	<p><b>Information Literacy:</b> Access information efficiently (time) and effectively (sources).</p>	<p>3.b. Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.            3.c. Evaluate and select information sources and digital tools based on the appropriateness to specific tasks.            4.c. Collect and analyze data to identify solutions and/or make informed decisions.</p>

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1.1.5. Evaluate information found in selected sources on the basis of accuracy, validity, appropriateness for needs, importance, and social and cultural context.	<b>Information Literacy:</b> Evaluate information critically and competently.	3.b. Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media. 3.c. Evaluate and select information sources and digital tools based on the appropriateness to specific tasks. 4.c. Collect and analyze data to identify solutions and/or make informed decisions.
1.1.6. Read, view, and listen for information presented in any format (e.g., textual, visual, media, digital) in order to make inferences and gather meaning.	<b>Communication and Collaboration:</b> Listen effectively to decipher meaning, including knowledge, values, attitudes and intentions. <b>Information Literacy:</b> Manage the flow of information from a wide variety of sources.	1.c. Use models and simulations to explore complex systems and issues. 3.b. Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.
1.1.7. Make sense of information gathered from diverse sources by identifying misconceptions, main and supporting ideas, conflicting information, and point of view or bias.	<b>Critical Thinking and Problem Solving:</b> -Effectively analyze and evaluate evidence, arguments, claims and beliefs. - Analyze and evaluate major alternative points of view. <b>Media Literacy:</b> Understand both how and why media messages are constructed and for what purposes.	3.b. Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media. 4.c. Collect and analyze data to identify solutions and/or make informed decisions. 4.d. Use multiple processes and diverse perspectives to explore alternative solutions.
1.1.8. Demonstrate mastery of technology tools for accessing information and pursuing inquiry.	<b>Information &amp; Communication Technologies (ICT):</b> Use technology as a tool to research, organize, evaluate & communicate information.	6.a. Understand and use technology systems.
1.1.9. Collaborate with others to broaden and deepen understanding.		

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<p>2. Learners use skills, resources, &amp; tools to draw conclusions, make informed decisions, apply knowledge to new situations, and create new knowledge.</p>	<p>-Learning &amp; Innovation Skills -Information, Media &amp; Technology Skills -Life &amp; Career Skills</p>	<p><b>1. Creativity and Innovation:</b> Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.  <b>2. Communication and Collaboration:</b> Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.  <b>3. Research and Information Fluency:</b> Students apply digital tools to gather, evaluate, and use information.  <b>4. Critical Thinking, Problem Solving, and Decision Making:</b>  Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.  <b>6. Technology Operations and Concepts:</b> Students demonstrate a sound understanding of technology concepts, systems, and operations.</p>
<p>2.1.1. Continue an inquiry-based research process by applying critical-thinking skills (analysis, synthesis, evaluation, organization) to information and knowledge in order to construct new understandings, draw conclusions, and create new knowledge.</p>	<p><b>Think creatively:</b> Use a wide range of idea creation techniques (such as brainstorming).  <b>Critical thinking and Problem Solving:</b> Synthesize and make connections between information and arguments</p>	<p>1.a. Apply existing knowledge to generate new ideas, products, or processes.  1.d. Identify trends and forecast possibilities.  3.b. Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.  4.b. Plan and manage activities to develop a solution or complete a project.  4.c. Collect and analyze data to identify solutions and/or make informed decisions.</p>
<p>2.1.2. Organize knowledge so that it is useful.</p>		<p>3.b. Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.</p>

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2.1.3. Use strategies to draw conclusions from information and apply knowledge to curricular areas, real-world situations, and further investigations.	<p><b>Critical Thinking and Problem Solving:</b></p> <ul style="list-style-type: none"> <li>-Use various types of reasoning (inductive, deductive, etc. as appropriate to the situation.</li> <li>-Interpret information and draw conclusions based on the best analysis.</li> </ul> <p><b>Information Literacy:</b> Use information accurately and creatively for the issue or problem at hand.</p>	<p>1.d. Identify trends and forecast possibilities.</p> <p>4.b. Plan and manage activities to develop a solution or complete a project.</p> <p>4.c. Collect and analyze data to identify solutions and/or make informed decisions.</p>
2.1.4. Use technology and other information tools to analyze and organize information.	<p><b>Information &amp; Communication Technologies (ICT):</b> Use technology as a tool to research, organize, evaluate &amp; communicate information.</p>	<p>1.c. Use models and simulations to explore complex systems and issues.</p> <p>3.b. Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.</p> <p>3.c. Evaluate and select information sources and digital tools based on the appropriateness to specific tasks.</p> <p>3.d. Process data and report results.</p> <p>4.c. Collect and analyze data to identify solutions and/or make informed decisions.</p> <p>6.a. Understand and use technology systems.</p>
2.1.5. Collaborate with others to exchange ideas, develop new understandings, make decisions, and solve problems.		<p>1.b. Create original works as a means of personal or group expression.</p>
2.1.6. Use the writing process, media and visual literacy, and technology skills to create products that express new understandings.	<p><b>Communication and Collaboration:</b> - Articulate thoughts and ideas effectively using oral, written and nonverbal communication skills in a variety of forms and contexts.</p> <p><b>Information &amp; Communication Technologies (ICT):</b> Use technology as a tool to research, organize, evaluate &amp; communicate information.</p>	<p>1.b. Create original works as a means of personal or group expression.</p> <p>2.d. Contribute to project teams to produce original works or solve problems.</p> <p>3. d. Process data and report results.</p> <p>6. b. Select and use applications effectively and productively.</p>

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<p><b>3. Learners use skills, resources, &amp; tools to share knowledge and participate ethically and productively as members of our democratic society.</b></p>	<p><b>-Learning &amp; Innovation Skills</b>  <b>-Information, Media &amp; Technology Skills</b>  <b>-Life &amp; Career Skills</b></p>	<p><b>2. Communication and Collaboration:</b> Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.  <b>3. Research and Information Fluency:</b> Students apply digital tools to gather, evaluate, and use information.  <b>5. Digital Citizenship:</b> Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.  <b>6. Technology Operations and Concepts:</b> Students demonstrate a sound understanding of technology concepts, systems, and operations.</p>
<p>3.1.1. Conclude an inquiry-based research process by sharing new understandings and reflecting on the learning.</p>		<p>3.d. Process data and report results.</p>
<p>3.1.2. Participate and collaborate as members of a social and intellectual network of learners.</p>	<p><b>Communication and Collaboration:</b> Demonstrate ability to work effectively and respectfully with diverse teams.  <b>Information &amp; Communication Technologies (ICT) Literacy:</b> Use digital technologies, communication/networking tools and social networks appropriately to access, manage, integrate, evaluate and create information to successfully function in a knowledge economy.</p>	<p>2.c. Develop cultural understanding and global awareness by engaging with learners of other cultures.</p>
<p>3.1.3. Use writing and speaking skills to communicate new understandings effectively.</p>	<p><b>Work Creatively with Others:</b> Develop, implement and communicate new ideas to others effectively.</p>	

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3.1.4. Use technology and other information tools to organize and display knowledge and understanding in ways that others can view, use, and assess.	<p><b>Media Literacy:</b> Understand and utilize the most appropriate media creation tools, characteristics and conventions.</p> <p><b>Information &amp; Communication Technologies (ICT) Literacy:</b> Use technology as a tool to research, organize, evaluate &amp; communicate information.</p>	<p>2.b. Communicate information and ideas effectively to multiple audiences using a variety of media and formats.</p> <p>3.c. Evaluate and select information sources and digital tools based on the appropriateness to specific tasks.</p> <p>3.d. Process data and report results.</p> <p>6.a. Understand and use technology systems.</p> <p>6.b. Select and use applications effectively and productively.</p>
3.1.5. Connect learning to community issues.		
3.1.6. Use information and technology ethically and responsibly.	<p><b>Information &amp; communication Technologies (ICT) Literacy:</b> Apply a fundamental understanding of the ethical/legal issues surrounding the access and use of information technologies.</p>	<p>3.b. Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.</p> <p>5.a. Advocate and practice safe, legal, and responsible use of information and technology.</p>

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<b>4. Learners use skills, resources, &amp; tools to pursue personal and aesthetic growth.</b>	<ul style="list-style-type: none"> <li>-Learning &amp; Innovation Skills</li> <li>-Information, Media &amp; Technology Skills</li> <li>-Life &amp; Career Skills</li> </ul>	<p><b>2. Communication and Collaboration:</b> Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.</p> <p><b>5. Digital Citizenship:</b> Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.</p> <p><b>6. Technology Operations and Concepts:</b> Students demonstrate a sound understanding of technology concepts, systems, and operations.</p>
4.1.1. Read, view, and listen for pleasure and personal growth.		5.c. Demonstrate personal responsibility for lifelong learning..
4.1.2. Read widely and fluently to make connections with self, the world, and previous reading.		
4.1.3. Respond to literature and creative expressions of ideas in various formats and genres.		5.c. Demonstrate personal responsibility for lifelong learning.
4.1.4. Seek information for personal learning in a variety of formats and genres.		5.c. Demonstrate personal responsibility for lifelong learning.
4.1.5. Connect ideas to own interests and previous knowledge and experience.		
4.1.6. Organize personal knowledge in a way that can be called upon easily.		
4.1.7. Use social networks and information tools to gather and share information.	<p><b>Information &amp; Communication Technologies (ICT) Literacy:</b> Use digital technologies, communication/networking tools and social networks appropriately to access, manage, integrate, evaluate and create information to successfully function in a knowledge economy.</p>	<p>1.b. Create original works as a means of personal or group expression.</p> <p>2.a. Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media.</p>
4.1.8. Use creative and artistic formats to express personal learning.		1.b. Create original works as a means of personal or group expression.