

# WV 21<sup>st</sup> Century Learning Skills Matrix

Objectives	Grades K-2	Grades 3-4	Grades 5-8	Grades 9-12
<b>Information and Communication Skills</b>	<p>Student uses text, people and electronic resources (e.g. interactive books, educational software, CD-ROMs, elementary multimedia encyclopedias and search engines) to locate information for classroom assignments and is able to identify the author and purpose for each source located. 21C.O.PK-2.1.LS1</p> <p>Student can accurately interpret and create simple visuals (e.g. charts, maps, graphs and models) and use this information to solve problems and communicate information. 21C.O.PK-2.1.LS2</p> <p>Student articulates thoughts and ideas, representative of real and imaginary experiences, clearly and effectively through oral, written or multimedia communication. 21C.O.PK-2.1.LS3</p>	<p>Student identifies information needed to solve a problem or complete an assignment, conducts a search and prioritizes various sources based on credibility and relevance, retrieves relevant information from a variety of media sources, and uses this information to create an effective presentation. 21C.O.3-4.1.LS1</p> <p>Student accurately interprets symbols and visuals and can distinguish fact from opinion when presented with visuals through various media; student uses his/her knowledge to construct new knowledge and communicate information. 21C.O.3-4.1.LS2</p> <p>Student, cognizant of audience and purpose, articulates thoughts and ideas accurately and effectively through oral, written or multimedia communications. 21C.O.3-4.1.LS3</p>	<p>Student, when presented with a problem, identifies the information needed, uses text, people, online databases and search engines to filter relevant information efficiently, analyzes information for biases, synthesizes information gathered and creates an effective and efficient response to the problem. 21C.O.5-8.1.LS1</p> <p>Student interprets abstract visuals and creates products (e.g. digital storytelling) that reflect a growing understanding of visual language and require the effective use of tools (e.g. cropped photos, original charts and graphs, well-chosen images from databases, video clips). 21C.O.5-8.1.LS2</p> <p>Student presents thoughts, ideas, and conceptual understanding efficiently, accurately and in a compelling manner and enhances the oral or written presentation through the use of technology. 21C.O.5-8.1.LS3</p>	<p>Student recognizes information needed for problem solving, can efficiently browse, search and navigate online to access relevant information, evaluates information based on credibility, social, economic, political and/or ethical issues, and presents findings clearly and persuasively using a range of technology tools and media. 21C.O.9-12.1.LS1</p> <p>Student analyzes and interprets visuals and recognizes the impact digital media influences (e.g. design, technique, and rate of speed) have on audiences. The student's visual products reflect a sophisticated understanding of subject, digital media and design techniques. 21C.O.9-12.1.LS2</p> <p>Student creates information using advanced skills of analysis, synthesis and evaluation and shares this information through a variety of oral, written and multimedia communications that target academic, professional and technical audiences and purposes. 21C.O.9-12.1.LS3</p>

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<p><b>Thinking and Reasoning Skills</b></p>	<p>Student engages with teacher assistance in a critical thinking process by conducting basic evaluations using simple criteria. 21C.O.PK-2.2.LS1</p> <p>Student identifies parts of a system and explains how those parts interact with one another. 21C.O.PK-2.2.LS2</p> <p>Student engages in a problem solving process using objects to solve problems and demonstrates learning by explaining how they solved the problem. 21C.O.PK-2.2.LS3</p> <p>Student engages in discovery, exploration and experimentation to reach unexpected answers. Student makes unusual associations and provides a variety of solutions to problems. 21C.O.PK-2.2.LS4</p>	<p>Student engages, with teacher assistance, in a critical thinking process that synthesizes knowledge and ideas. 21C.O.3-4.2.LS1</p> <p>Student identifies parts of a system and explains how those parts interact with one another. 21C.O.3-4.2.LS2</p> <p>Student engages in a problem solving process that promotes questioning, planning investigations and finding answers and solutions. 21C.O.3-4.2.LS3</p> <p>Student generates ideas for solutions to problems and asks questions in order to create unusual, unique or clever products. Student begins to cognitively recognize the skills of adapting, improving, modifying, and expanding existing thoughts or ideas to create products. 21C.O.3-4.2.LS4</p>	<p>Student engages in a critical thinking process that supports synthesis and conducts evaluations by applying comprehensive criteria. 21C.O.5-8.2.LS1</p> <p>Student draws conclusions from a variety of data sources to analyze and interpret systems. 21C.O.5-8.2.LS2</p> <p>Student engages in a problem solving process that divides complex problems into simple parts in order to devise solutions. 21C.O.5-8.2.LS3</p> <p>Student creates thoughtful ideas and solutions and takes risks as he/she works toward goal despite mistakes. Student begins to consistently think of all the possibilities and diverges to become more expansive with his/her thoughts/ideas that lead to the creation of original products. 21C.O.5-8.2.LS4</p>	<p>Student engages in a critical thinking process that supports synthesis and conducts evaluation using complex criteria. 21C.O.9-12.2.LS1</p> <p>Student draws conclusions from a variety of data sources to analyze and interpret systems 21C.O.9-12.2.LS2</p> <p>Student engages in a problem solving process by formulating questions and applying complex strategies in order to independently solve problems. 21C.O.9-12.2.LS3</p> <p>Student visualizes the connection between seemingly unrelated ideas and independently produces solutions that are fresh, unique, original and well developed. Student shows capacity for originality, concentration, commitment to completion, and persistence to develop unique and cogent products. 21C.O.9-12.2.LS4</p>
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<p><b>Personal and Workplace Skills</b></p>	<p>Student manages negative emotions, aligns his/her goals to the goals of others, and works cooperatively and productively with others in small groups. 21C.O.PK-2.3.LS1</p> <p>Student demonstrates ability to assume different roles and responsibilities as assigned by the teacher and abandons ineffective strategies when introduced to more effective strategies for solving a problem or completing a task. 21C.O.PK-2.3.LS2</p> <p>Student understands the defined learning goal and uses age-appropriate instructional rubrics and tools to assess his/her performance in meeting the goal within the timeline established by the teacher. 21C.O.PK-2.3.LS3</p>	<p>Student manages and preempts negative emotions before they escalate, exercises self-restraint without assistance, and works productively in a variety of group settings. 21C.O.3-4.3.LS1</p> <p>Student is flexible in assuming various roles and responsibilities in the classroom and the school, and with minimal assistance, considers alternative methods, solutions and perspectives to solving a problem or completing a task. 21C.O.3-4.3.LS2</p> <p>Student engages in the goal setting process, and with guidance, demonstrates ability to change focus and direction or use different strategies, while using instructional rubrics and other tools to monitor and evaluate his/her performance. 21C.O.3-4.3.LS3</p>	<p>Student manages emotions and behaviors, engages in collaborative work assignments requiring compromise, and demonstrates flexibility by assuming different roles and responsibilities within various team structures. 21C.O.5-8.3.LS1</p> <p>Student is flexible in approach to solving problems and completing tasks, considers alternative methods, solutions and perspectives, abandons strategies that do not work, and reallocates time and resources as priorities change. 21C.O.5-8.3.LS2</p> <p>Student sets challenging goals and strategically plans to reach those goals, monitors performance and adjusts effort and strategies, seeks assistance when needed, and demonstrates focused commitment to reaching the established goals. 21C.O.5-8.3.LS3</p>	<p>Student remains composed and focused, even under stress, willingly aligns his/her personal goals to the goals of others when appropriate, approaches conflict from win-win perspective, and derives personal satisfaction from achieving group goals. 21C.O.9-12.3.LS1</p> <p>Student independently considers multiple perspectives and can represent a problem in more than one way, quickly and calmly changes focus and goals as the situation requires, and actively seeks innovations (e.g. technology) that will enhance his/her work. 21C.O.9-12.3.LS2</p> <p>Student demonstrates ownership of his/her learning by setting goals, monitoring and adjusting performance, extending learning, using what he/she has learned to adapt to new situations, and displaying perseverance and commitment to continued learning. 21C.O.9-12.3.LS3</p>
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	<p>Student knows the difference between right and wrong, is accepting of others in work and play groups, and shows regard for peers and adults within the school by keeping work, play and public areas clean and organized. 21C.O.PK-2.3.LS4</p> <p>Student uses clearly defined teacher directions and interpersonal skills to move others toward the goal. 21C.O.PK-2.3.LS5</p> <p>Student focuses on a project goal, and with teacher guidance, frames appropriate questions related to the goal, considers possible courses of action, selects a plan of action and completes the project. 21C.O.PK-2.3.LS6</p>	<p>Student appreciates, accepts and works cooperatively with others, in both academic and social contexts, shares responsibility for continued improvement of the academic performance and climate of the school, and exhibits ethical behavior while working alone or communicating with others. 21C.O.3-4.3.LS4</p> <p>Student uses his/her interpersonal skills when in an assigned leadership role, helps others stay focused and successfully moves the group toward the goal. 21C.O.3-4.3.LS5</p> <p>Student focuses on the larger goal of a project, frames appropriate questions related to the goal, develops and initiates a plan of action with specific tasks and appropriate benchmarks, and completes the project on time. 21C.O.3-4.3.LS6</p>	<p>Student demonstrates ethical behavior and works responsibly and collaboratively with others, in academic and social contexts, to accomplish both individual and team goals related to improved academic, extracurricular and co-curricular performances. 21C.O.5-8.3.LS4</p> <p>Student exhibits interpersonal and problem-solving skills when in the role of leader. He/she helps others stay focused on the goal, monitors progress of the group, and successfully moves the group toward the goal. 21C.O.5-8.3.LS5</p> <p>Student maintains focus on larger project goal, frames appropriate questions, reflects on possible courses of action and their likely consequences, develops and initiates a plan of action with appropriate smaller objectives and benchmarks, and submits the completed project when due. 21C.O.5-8.3.LS6</p>	<p>Student demonstrates ethical behavior and works responsibly and collaboratively with others in the context of the school and the larger community, and he/she demonstrates civic responsibility through engagement in public discourse and participation in service learning. 21C.O.9-12.3.LS4</p> <p>Student exhibits positive leadership through interpersonal and problem-solving skills that contribute to achieving the goal. He/she helps others stay focused, distributes tasks and responsibilities effectively, and monitors group progress toward the goal without undermining the efforts of others. 21C.O.9-12.3.LS5</p> <p>Student maintains a strong focus on the larger project goal and frames appropriate questions and planning processes around goal. Prior to beginning work, student reflects upon possible courses of action and their likely consequences; sets objectives related to the larger goal; and establishes benchmarks for monitoring progress. While working on the project, student adjusts time and resources to allow for completion of a quality product. 21C.O.9-12.3.LS6</p>
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