RESEARCH & INFORMATION FLUENCY

In the 21st Century classroom, students find, navigate through, and evaluate large amounts of information. Teachers provide guided and independent research opportunities for students to make informed decisions and create products.

Entry (1)	Developing (2-3)	Approaching (4-5)	Ideal/Target (6-7)
and information acquisition. directs student use of print / digital resources. provides controlled opportunities for student search and analysis of media a	 models search techniques and critical analysis of various media and information sources. provides controlled opportunities for student search and analysis of media and 	Teacher: • plans and implements strategies to guide student investigation. • supports students as they acquire, evaluate, and ethically use information.	Teacher: develops, facilitates and assesses a learning environment where students are consistently engaged in the following: Students:
	information sources.	Students: develop questions to guide research. apply research methods to find and evaluate resources. critique and select information from a digital tools assemble, eand utilize in apply varied skills to find evaluate resources. use informations to assemble, eand utilize in apply varied skills to find evaluate resources.	apply valled recealers
Students: locate and acquire information using provided resources.	Students: locate, acquire and document the source of information.		resources to accomplish real-world

Modern tools that promote research and information fluency include search engines, databases, social bookmarking, push/ pull technologies and organizational structures and strategies.

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COMMUNICATION & COLLABORATION

In a 21st Century classroom, students communicate and collaborate effectively to reach a common goal or create a product. The teacher utilizes a variety of communication methods, structures student interaction in groups, and engages students in collaborative projects.

Entry (1)	Developing (2-3)	Approaching (4-5)	Ideal/Target (6-7)
Teacher: disseminates information with limited student interaction. initiates and regulates communication opportunities.	Teacher: creates structures for student communication within the classroom. provides opportunities for students to work in groups on products and projects.	Teacher: models effective communication. provides opportunities for students to make global connections. establishes group norms to facilitate effective collaboration. Students:	Teacher: develops, facilitates and assesses a learning environment where students are consistently engaged in the following: Students: initiate communication in real and non-real time.
Students: work independently to create individual products. rely on teacher prompts to ask questions or communicate with others.	Students: communicate using a variety of techniques. work in groups to accomplish measurable tasks or products.	 communicate with audiences within and beyond the classroom. assume one or more roles within their team to more effectively create collaborative products. 	 communicate and collaborate with learners of diverse cultural backgrounds. form collaborative teams to solve realworld problems and create original works.

Technologies that foster communication and collaboration include electronic messaging, multimedia publishing, video conferencing, shared authoring tools, and social networking applications.

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CRITICAL THINKING & PROBLEM SOLVING

Students will apply knowledge and skills in practical ways to solve real world problems. The teacher provides the activities, experiences, and feedback needed for students to develop critical thinking and problem solving skills.

Entry (1)	Developing (2-3)	Approaching (4-5)	Ideal/Target (6-7)
Teacher: disseminates information with limited real world connections. challenges students to complete tasks based on information recall.	Teacher: provides direct instruction on critical thinking and problem solving skills. creates opportunities for students to solve basic problems.	Teacher: incorporates problemand project-based learning into instruction. utilizes open-ended questions and emphasizes higher order thinking skills. guides and encourages	Teacher: develops, facilitates and assesses a learning environment where students are consistently engaged in the following:
Students: use limited range of	Students: use resources including technology to make decisions and solve problems. can justify their decision-making or problem-solving practices when prompted.	the use of appropriate resources to solve authentic problems.	 use multiple resources to plan, design, and execute real-world problems. use technology to collaborate and solve authentic problems. develop and answer open-ended questions using higher order thinking skills.
resources to solve comprehension-based tasks. do not elaborate on the reasoning behind their decision-making or problem-solving practices.		 use technology to work with limited teacher help to solve problems. engage in open-ended learning experiences that require higher order thinking skills. 	

Critical thinking and problem solving require specific behaviors that ultimately lead to insights and quality decisions. Modern tools that encourage and promote thinking critically and solving problems are flexible, varied and include simulation and data visualization software in addition to the tools included in the Research & Information Fluency and Communication and Collaboration sections.

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CREATIVITY & INNOVATION

In the 21st Century classroom, students develop original ideas and create products by applying critical thinking, research methods, communication tools, and collaborative processes. Teachers provide experiences that allow students to create unique ideas and products.

Entry (1)	Developing (2-3)	Approaching (4-5)	Ideal/Target (6-7)
Teacher: Imits instruction to specific content. makes connections to existing knowledge. Students: make connections to existing knowledge. create standard products following teacher direction.	Teacher: provides instruction to accommodate a range of learning styles, interests, and capabilities. prompts students to identify trends, make predictions and think skillfully.	Teacher: Includes skills-based learning outcomes that exceed minimum requirements outlined in state standards. Includes skills-based learning outcomes that exceed minimum requirements outlined in state standards. Includes skills-based learning outcomes that exceed minimum requirements outlined in state standards.	Teacher: develops, facilitates and assesses a learning environment where students are consistently engaged in the following:
	Students: engage in activities that have some aspects of choice or open-ended response. question, summarize and make predictions on their existing base of knowledge.	communication, and critical thinking skills. Students: identify trends and make predictions independently. apply existing knowledge to create ideas and products.	apply critical thinking, research methods, and communication tools to create original work. collaborate effectively beyond the classroom to create original work.

Creativity and innovation ultimately lead to new products, perspectives and insights. Modern tools that augment and accelerate creativity and innovation are flexible and varied. Examples of such powerful tools are included in the Research & Information Fluency and Communication and Collaboration sections of this document.