

SEM: <i>tech</i> Type II Processes	P21 Framework for 21st Century Learning	ISTE Standards for Students
Basic Skills (Learning How-to Learn Skills)		
Analyzing data Organizing data		Process data and report results
Making inferences and predicting Identifying trends and patterns		Identify trends and forecast possibilities
Innovation Skills		
Generating Ideas Iterating Modification techniques	Think creatively	
Iterating	Implement innovation	Apply existing knowledge to generate new ideas, products, or processes Create original works as a means of personal or group expression
Problem solving	Solve problems	Identify and define authentic problems and significant questions for investigation
Critical thinking	Reason effectively	Use multiple processes and diverse perspectives to explore alternative solutions
Decision making	Make judgments and decisions	
Understanding whole/part relationships Understanding cause and effect	Use systems thinking	Use models and simulations to explore complex systems and issues

Identifying the “big picture”, patterns, themes, sequences		
Collaborating	Work creatively with others	Create original works as a means of personal or group expression
Self-regulatory Skills		
Coping behaviors Flexibility	Adapt to change Be flexible	
Planning Monitoring progress Persevering	Manage goals and time Produce results	Plan and manage activities to develop solution or complete a project
Self-regulation	Work independently Be self-directed in learning Manage projects	Demonstrate personal responsibility for lifelong learning Transfer current knowledge to learning of new technologies Plan and manage activities to develop solution or complete a project
Socio-affective Skills		
Understanding yourself Values clarification		
Working in groups	Work creatively with others	Contribute to project teams to produce original works or solve problems
Peer relationships	Collaborate with others	Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media
Understanding others	Work effectively in diverse teams	Develop cultural understanding and global awareness by

	Interact effectively with others	engaging with learners of other cultures
Analyzing strengths Dealing with conflict	Guide and lead others Be responsible to others	Exhibit leadership for digital citizenship
Communication Skills		
Communicating effectively	Communicate clearly Interact effectively with others	Communicate information and ideas effectively to multiple audiences using a variety of media and formats Develop cultural understanding and global awareness by engaging with learners of other cultures
Information & Media Literacy Skills		
Searching for information Evaluating information	Access and evaluate information Use and manage information Analyze media	Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media
Communicating effectively Curating	Create media products	Evaluate and select information sources and digital tools based on the appropriateness to specific tasks
Technology skills		
Identify types and sources of data Ability to conduct self-assessment of web-based information	Apply technology effectively	Understand and use technology systems Select and use applications effectively and productively Advocate and practice safe, legal, and responsible use of information and technology. Troubleshoot systems and applications