

# CONNECTIONS: ISTE Standards, 21<sup>st</sup> Century Skills, and NYS Learning Standards

## 1. Creativity and Innovation

Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.

ISTE a. apply existing knowledge to generate new ideas, products, or processes.

- **Students will be creating products to demonstrate during the summit.**

### SKILLS

- 21<sup>st</sup> Century Skills Connection: Creativity & Innovation
- 21<sup>st</sup> Century Skills Connection: Flexibility & Adaptability
- 21<sup>st</sup> Century Skills Connection: Productivity & Accountability

### NYS STANDARDS

- ELA1.LR1: Listening & Reading
- ELA1.SW2: Speaking & Writing
- MST1: Analysis, Inquiry & Design
- MST6: Interconnectedness: Common Themes

ISTE b. create original works as a means of personal or group expression.

- **Students would develop and produce multimedia presentations for the various projects.**

### SKILLS

- 21<sup>st</sup> Century Skills Connection: Creativity & Innovation
- 21<sup>st</sup> Century Skills Connection: Communication & Collaboration
- 21<sup>st</sup> Century Skills Connection: Media Literacy
- 21<sup>st</sup> Century Skills Connection: Initiative & Self-Direction
- 21<sup>st</sup> Century Skills Connection: Social & Cross-Cultural Skills
- 21<sup>st</sup> Century Skills Connection: Productivity & Accountability

### NYS STANDARDS

- ELA1.LR1: Listening & Reading
- ELA1.SW2: Speaking & Writing
- MST1: Analysis, Inquiry & Design
- MST6: Interconnectedness: Common Themes

ISTE c. use models and simulations to explore complex systems and issues.

- **Students would be utilizing the Internet2 resources through out the project process to gain knowledge and expertise.**

### SKILLS

- 21<sup>st</sup> Century Skills Connection: Creativity & Innovation
- 21<sup>st</sup> Century Skills Connection: ICT (Information, Communications & Technology) Literacy

### NYS STANDARDS

- MST1: Analysis, Inquiry & Design
- MST6: Interconnectedness: Common Themes

ISTE d. identify trends and forecast possibilities.

- **Students will identify global issues and act as advocates during both the project and summit.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Creativity & Innovation
- 21<sup>st</sup> Century Skills Connection: Information Literacy
- 21<sup>st</sup> Century Skills Connection: Flexibility & Adaptability
- 21<sup>st</sup> Century Skills Connection: Initiative & Self-Direction

NYS STANDARDS

- MST1: Analysis, Inquiry & Design
- MST6: Interconnectedness: Common Themes

## 2. Communication and Collaboration

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.

Students:

ISTE a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media.

- **Students will have the ability to interact with experts by utilizing the Internet2 resources, as well as share their learning products with the learning community during the summit.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Communication & Collaboration
- 21<sup>st</sup> Century Skills Connection: ICT (Information, Communications & Technology) Literacy
- 21<sup>st</sup> Century Skills Connection: Media Literacy
- 21<sup>st</sup> Century Skills Connection: Flexibility & Adaptability
- 21<sup>st</sup> Century Skills Connection: Social & Cross-Cultural Skills
- 21<sup>st</sup> Century Skills Connection: Productivity & Accountability

NYS STANDARDS

- ELA1.LR1: Listening & Reading
- ELA1.SW2: Speaking & Writing
- MST1: Analysis, Inquiry & Design
- MST5: Technology

ISTE b. communicate information and ideas effectively to multiple audiences using a variety of media and formats.

- **Students will incorporate a variety of media and formats to share information during the summit to showcase their projects.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Communication & Collaboration
- 21<sup>st</sup> Century Skills Connection: Information Literacy
- 21<sup>st</sup> Century Skills Connection: Media Literacy
- 21<sup>st</sup> Century Skills Connection: Social & Cross-Cultural Skills

#### NYS STANDARDS

- ELA1.LR1: Listening & Reading
- ELA1.SW2: Speaking & Writing
- MST1: Analysis, Inquiry & Design
- MST5: Technology

ISTE c. develop cultural understanding and global awareness by engaging with learners of other cultures.

- **Students will identify global issues and act as advocates during both the project and summit.**

#### SKILLS

- 21<sup>st</sup> Century Skills Connection: Communication & Collaboration
- 21<sup>st</sup> Century Skills Connection: Social & Cross-Cultural Skills

#### NYS STANDARD

- MST6: Interconnectedness: Common Themes

ISTE d. contribute to project teams to produce original works or solve problems.

- **The projects highlight will demonstrate students working in teams to produce original works based on global issues.**

#### SKILLS

- 21<sup>st</sup> Century Skills Connection: Communication & Collaboration
- 21<sup>st</sup> Century Skills Connection: Flexibility & Adaptability
- 21<sup>st</sup> Century Skills Connection: Initiative & Self-Direction
- 21<sup>st</sup> Century Skills Connection: Social & Cross-Cultural Skills

#### NYS STANDARD

- ELA1.LR1: Listening & Reading
- ELA1.SW2: Speaking & Writing
- MST1: Analysis, Inquiry & Design
- MST6: Interconnectedness: Common Themes

### 3. Research and Information Fluency

Students apply digital tools to gather, evaluate, and use information.

Students:

ISTE a. plan strategies to guide inquiry.

- **Students are participating in project-based learning and guided inquiry.**

#### SKILLS

- 21<sup>st</sup> Century Skills Connection: Critical Thinking & Problem Solving
- 21<sup>st</sup> Century Skills Connection: Communication & Collaboration
- 21<sup>st</sup> Century Skills Connection: ICT (Information, Communications & Technology) Literacy
- 21<sup>st</sup> Century Skills Connection: Flexibility & Adaptability
- 21<sup>st</sup> Century Skills Connection: Initiative & Self-Direction
- 21<sup>st</sup> Century Skills Connection: Productivity & Accountability

#### NYS STANDARD

- ELA1.LR1: Listening & Reading
- ELA1.SW2: Speaking & Writing
- MST1: Analysis, Inquiry & Design
- MST2: Information Systems

ISTE b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.

- **Students will be able to utilize Internet2 resources, as well as other applicable information cites/experts to create the final products.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: ICT (Information, Communications & Technology) Literacy
- 21<sup>st</sup> Century Skills Connection: Information Literacy
- 21<sup>st</sup> Century Skills Connection: Media Literacy

NYS STANDARDS

- ELA1.LR1: Listening & Reading
- ELA1.SW2: Speaking & Writing
- MST1: Analysis, Inquiry & Design
- MST2: Information Systems
- MST5: Technology

ISTE c. evaluate and select information sources and digital tools based on the appropriateness to specific tasks.

- **Students will analyze and evaluate the resources available to them through Internet2, and determine which information is most relevant to their projects.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: ICT (Information, Communications & Technology) Literacy
- 21<sup>st</sup> Century Skills Connection: Information Literacy

NYS STANDARDS

- ELA1.LR1: Listening & Reading
- ELA1.SW2: Speaking & Writing
- MST1: Analysis, Inquiry & Design
- MST2: Information Systems
- MST5: Technology

ISTE d. process data and report results.

- **Students will draw conclusions based on the resources available to them through Internet2, and report out during the global summit.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Communication & Collaboration
- 21<sup>st</sup> Century Skills Connection: ICT (Information, Communications & Technology) Literacy
- 21<sup>st</sup> Century Skills Connection: Information Literacy

NYS STANDARDS

- MST1: Analysis, Inquiry & Design
- MST2: Information Systems

#### 4. Critical Thinking, Problem Solving, and Decision Making

Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.

Students:

ISTE a. identify and define authentic problems and significant questions for investigation.

- **Student projects reflect authentic global issues.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Critical Thinking & Problem Solving
- 21<sup>st</sup> Century Skills Connection: Initiative & Self-Direction

NYS STANDARDS

- MST1: Analysis, Inquiry & Design
- MST6: Interconnectedness: Common Themes

ISTE b. plan and manage activities to develop a solution or complete a project.

- **Students will participate in the Global Summit and showcase completed projects.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Critical Thinking & Problem Solving
- 21<sup>st</sup> Century Skills Connection: Communication & Collaboration
- 21<sup>st</sup> Century Skills Connection: Media Literacy
- 21<sup>st</sup> Century Skills Connection: Flexibility & Adaptability
- 21<sup>st</sup> Century Skills Connection: Productivity & Accountability

NYS STANDARDS

- MST1: Analysis, Inquiry & Design
- MST6: Interconnectedness: Common Themes

ISTE c. collect and analyze data to identify solutions and/or make informed decisions.

- **Students will be able to utilize Internet2 resources, as well as other applicable information cites/experts, to develop an advocacy action plan for their global project.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Critical Thinking & Problem Solving
- 21<sup>st</sup> Century Skills Connection: ICT (Information, Communications & Technology) Literacy
- 21<sup>st</sup> Century Skills Connection: Information Literacy

NYS STANDARDS

- ELA1.LR1: Listening & Reading
- MST1: Analysis, Inquiry & Design
- MST6: Interconnectedness: Common Themes

ISTE d. use multiple processes and diverse perspectives to explore alternative solutions.

- **Students will use a variety of Internet2 resources, including expert voices, to gain insight and diverse perspectives about global issues.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Critical Thinking & Problem Solving
- 21<sup>st</sup> Century Skills Connection: ICT (Information, Communications & Technology) Literacy
- 21<sup>st</sup> Century Skills Connection: Flexibility & Adaptability

NYS STANDARDS

- MST1: Analysis, Inquiry & Design
- MST6: Interconnectedness: Common Themes

## 5. Digital Citizenship

Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.

Students:

ISTE a. advocate and practice safe, legal, and responsible use of information and technology.

- **Students will practice internet safety skills as they navigate the resources provided by the Internet2.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: ICT (Information, Communications & Technology) Literacy
- 21<sup>st</sup> Century Skills Connection: Initiative & Self-Direction
- 21<sup>st</sup> Century Skills Connection: Leadership & Responsibility

NYS STANDARDS

- MST5: Technology

ISTE b. exhibit a positive attitude toward using technology that supports collaboration, learning, and productivity.

- **Students will show a positive attitude by contributing during the global summit.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Communication & Collaboration
- 21<sup>st</sup> Century Skills Connection: Initiative & Self-Direction
- 21<sup>st</sup> Century Skills Connection: Social & Cross-Cultural Skills
- 21<sup>st</sup> Century Skills Connection: Leadership & Responsibility

ISTE c. demonstrate personal responsibility for lifelong learning.

- **Students will develop empathy for global issues as a result of their research and project development.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Communication & Collaboration
- 21<sup>st</sup> Century Skills Connection: Initiative & Self-Direction
- 21<sup>st</sup> Century Skills Connection: Leadership & Responsibility

ISTE d. exhibit leadership for digital citizenship.

- **Students will lead project sharing sessions during the Global Summit, in which they will demonstrate digital citizenship.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Initiative & Self-Direction
- 21<sup>st</sup> Century Skills Connection: Social & Cross-Cultural Skills
- 21<sup>st</sup> Century Skills Connection: Leadership & Responsibility

## 6. Technology Operations and Concepts

Students demonstrate a sound understanding of technology concepts, systems, and operations.

Students:

ISTE a. understand and use technology systems.

- **Students will be able to navigate the Internet2 resources and show understanding of technology systems during the Global Summit.**

NYS STANDARDS

- MST2: Information Systems
- MST5: Technology

ISTE b. select and use applications effectively and productively.

- **Students will select and use appropriate application to develop their multimedia projects and collaborate during the Global Summit.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Media Literacy

NYS STANDARDS

- MST2: Information Systems
- MST5: Technology

ISTE c. troubleshoot systems and applications.

- **Students will use problem-solving and decision making skills to navigate and use the Internet2 resources productively.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Critical Thinking & Problem Solving
- 21<sup>st</sup> Century Skills Connection: ICT (Information, Communications & Technology) Literacy
- 21<sup>st</sup> Century Skills Connection: Media Literacy
- 21<sup>st</sup> Century Skills Connection: Flexibility & Adaptability

NYS STANDARDS

- MST2: Information Systems
- MST5: Technology

ISTE d. transfer current knowledge to learning of new technologies.

- **Students will develop multimedia projects and transfer their knowledge to others during the Global Summit.**

SKILLS

- 21<sup>st</sup> Century Skills Connection: Communication & Collaboration
- 21<sup>st</sup> Century Skills Connection: Media Literacy
- 21<sup>st</sup> Century Skills Connection: Initiative & Self-Direction

NYS STANDARDS

- MST1: Analysis, Inquiry & Design
- MST2: Information Systems
- MST5: Technology