

EAST RUTHERFORD SCHOOL DISTRICT

EDUCATIONAL TECHNOLOGY CURRICULUM

Grades 3-5



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New Jersey Student Learning Standards

NJSLS 2016

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The following maps outline the New Jersey Student Learning Standards for Technology for Grades 3-5. Below is a list of assessment tools that are recommended for tracking student progress in these areas. In addition, resources that can be used in conjunction with instruction of these standards are provided but not limited to the list below.

Assessment:

Formative Assessment
Class- Work Review
Project- Based Assessment
Self- Assessment
Teacher Observation
Group & Cooperative Work
Student-Created Rubrics

Resources & Programs

www.weblender.com

<https://tech4learning.com>

Google Classroom & Applications (Docs, Slides, Sheets, Forms, Maps, Sites, etc.)

Microsoft Office

Excel

Word

Web Lender

Pixie 2 & 3

Google Image

References:

NJ Technology Standards: <http://www.state.nj.us/education/cccs/2014/tech/81.pdf>

NJ 21st Century Life & Career Standards: <http://www.state.nj.us/education/cccs/2014/career/9.pdf>

Interdisciplinary Connections are listed as their own category throughout the curriculum map. These connections include but are not limited to the following:

- Language Arts
- Science
- Social Studies
- Mathematics

Essential Question(s): How can digital tools be used to access, manage, evaluate, and synthesize information in order to solve problems?

Standard: 8.1 **Educational Technology:** All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate and to create and communicate knowledge.

Strand: A. Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems and operations.

Career Ready Practices:

CRP2. Apply appropriate academic and technical skills.

CRP4. Communicate clearly and effectively and with reason.

CRP6. Demonstrate creativity and innovation.

CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.

CRP10. Plan education and career paths aligned to personal goals.

CRP11. Use technology to enhance productivity.

Interdisciplinary Connections:

- Mathematics
- Science
- Language Arts

Content Statements	Cumulative Progress Indicator	Example Activities	Resources
Understand and use technology systems.	8.1.5.A.1 Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems.	<ul style="list-style-type: none">● Letter to Teachers● Inserting Images● Text Structure● Inserting Borders	<ul style="list-style-type: none">● Microsoft Excel● Microsoft PowerPoint● Microsoft Word

<p>Select and use applications effectively and productively.</p>	<p>8.1.5.A.2 Format a document using a word processing application to enhance text and include graphics, symbols and/ or pictures.</p> <p>8.1.5.A.3 Use a graphic organizer to organize information about problem or issue.</p> <p>8.1.5.A.4 Graph data using a spreadsheet, analyze and produce a report that explains the analysis of the data.</p> <p>8.1.5.A.5 Create and use a database into a spreadsheet; analyze and produce a report that explains the analysis of the data.</p> <p>8.1.5.A.6 Export data from a database into a spreadsheet; analyze and produce a report that explains the analysis of the data.</p>	<ul style="list-style-type: none"> ● Letter to Teachers ● Inserting Images ● Text Structure ● Inserting Borders 	<ul style="list-style-type: none"> ● Microsoft Word ● Microsoft PowerPoint ● Microsoft Excel
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Essential Question(s): How can digital tools be used to access, manage, evaluate, and synthesize information in order to solve problems?

How can students use technology to enhance, develop, and demonstrate creativity?

Standard: 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate and to create and communicate knowledge.

Strand: B. Creativity and Innovation: Students demonstrate creative thinking, construct knowledge and develop innovative products and process using technology.

Career Ready Practices:

CRP2. Apply appropriate academic and technical skills.

CRP4. Communicate clearly and effectively and with reason.

CRP6. Demonstrate creativity and innovation.

CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.

CRP11. Use technology to enhance productivity.

Interdisciplinary Connections:

- Mathematics
- Science
- Language Arts

Content Statements	Cumulative Progress Indicator	Example Activities	Resources
Apply existing knowledge to generate new ideas, products, or processes. Create original works as a means of personal	8.1.5.B.1 Collaborative to produce a digital story about a significant local event or issue based on first-person interviews.	<ul style="list-style-type: none">● Creating Quizzes	<ul style="list-style-type: none">● Microsoft PowerPoint● Microsoft Word

or group expression.			
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<p>Essential Question(s): How can digital tools be used to access, manage, evaluate, and synthesize information in order to solve problems?</p> <p>How can students use technology to communicate and begin to work collaboratively.</p>			
<p>Standard: 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate and to create and communicate knowledge.</p>			
<p>Strand: C. Communication and Collaboration: <i>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.</i></p>			
<p>Career Ready Practices:</p> <p>CRP2. Apply appropriate academic and technical skills.</p> <p>CRP4. Communicate clearly and effectively and with reason.</p> <p>CRP6. Demonstrate creativity and innovation.</p> <p>CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.</p> <p>CRP11. Use technology to enhance productivity.</p>			
<p>Interdisciplinary Connections:</p> <ul style="list-style-type: none"> ● Mathematics ● Science ● Language Arts ● Social Studies 			
Content Statements	Cumulative Progress Indicator	Example Activities	Resources
Interact, collaborate, and publish with peers, experts, or others by employing a variety of digital environments and	8.1.5.C.1 Engage in online discussions with learners of other cultures to investigate a worldwide issue from multiple perspectives and sources, evaluate findings and present	<ul style="list-style-type: none"> ● Student survey ● Student tables ● Student spreadsheets 	<ul style="list-style-type: none"> ● Images ● Microsoft Excel ● Microsoft PowerPoint ● Microsoft Word

<p>media.</p> <p>Communicate information and ideas to multiple audiences using a variety of media and formats.</p> <p>Develop cultural understanding and global awareness by engaging with learners of other cultures.</p>	<p>possible solutions, using digital tools and online resources for all steps.</p>		
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Essential Question(s): How can digital tools be used to access, manage, evaluate, and synthesize information in order to solve problems?

How can technology be used to develop legal and ethical behavior?

Standard: 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate and to create and communicate knowledge.

Strand: D. Digital Citizenship: *Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.*

Career Ready Practices:

CRP2. Apply appropriate academic and technical skills.

CRP4. Communicate clearly and effectively and with reason.

CRP6. Demonstrate creativity and innovation.

CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.

CRP11. Use technology to enhance productivity.

Interdisciplinary Connections:

- Mathematics
- Science
- Language Arts
- Social Studies

Content Statements	Cumulative Progress Indicator	Example Activities	Resources
Advocate and practice safe, legal, and responsible use of information and technology. <hr/> Demonstrate personal	8.1.5.D.1 Understand the need for and use of copyrights. <hr/> 8.1.5.D.2 Analyze the resource citations in online materials for	<ul style="list-style-type: none"> ● Budgets ● Spreadsheets ● Bar charts 	<ul style="list-style-type: none"> ● Microsoft Excel ● Microsoft PowerPoint ● Microsoft Word

<p>responsibility for lifelong learning.</p> <hr/> <p>Exhibit leadership for digital citizenship</p>	<p>proper use.</p> <hr/> <p>8.1.5.D.3 Demonstrate an understanding of the need to practice cyber safety, cyber security, and cyber ethics when using technologies and social media.</p> <hr/> <p>8.1.5.D.4 Understand digital citizenship and demonstrate an understanding of the personal consequences of inappropriate use of technology and social media.</p>		
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<p>Essential Question(s): How can digital tools be used to access, manage, evaluate, and synthesize information in order to solve problems?</p> <p>How can students use digital tools to gather information?</p>			
<p>Standard: 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate and to create and communicate knowledge.</p>			
<p>Strand: E: Research and Information Fluency: <i>Students apply digital tools to gather, evaluate, and use information.</i></p>			
<p>Career Ready Practices:</p> <p>CRP2. Apply appropriate academic and technical skills.</p> <p>CRP4. Communicate clearly and effectively and with reason.</p> <p>CRP6. Demonstrate creativity and innovation.</p> <p>CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.</p> <p>CRP11. Use technology to enhance productivity.</p>			
<p>Interdisciplinary Connections:</p> <ul style="list-style-type: none"> ● Mathematics ● Science ● Language Arts ● Social Studies 			
Content Statements	Cumulative Progress Indicator	Example Activities	Resources
<p>Plan strategies to guide inquiry.</p> <p>Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.</p>	<p>8.1.5.E.1 Use digital tools to research and evaluate the accuracy of, relevance to, and appropriateness of using print and non-print electronic information sources to complete a</p>	<ul style="list-style-type: none"> ● Famous landmarks ● Resources ● PowerPoints 	<ul style="list-style-type: none"> ● Researching ● Microsoft PowerPoint ● Microsoft Word ● Microsoft Excel

Evaluate and select information sources and digital tools based on the appropriateness for specific tasks.	variety of tasks.		
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<p>Essential Question(s): How can digital tools be used to access, manage, evaluate, and synthesize information in order to solve problems?</p> <p>How can technology be used to enhance, develop and demonstrate critical thinking skills?</p>			
<p>Standard: 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate and to create and communicate knowledge.</p>			
<p>Strand: F: Critical thinking, problem solving, and decision making: <i>Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.</i></p>			
<p>Career Ready Practices:</p> <p>CRP2. Apply appropriate academic and technical skills.</p> <p>CRP4. Communicate clearly and effectively and with reason.</p> <p>CRP6. Demonstrate creativity and innovation.</p> <p>CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.</p> <p>CRP11. Use technology to enhance productivity.</p>			
<p>Interdisciplinary Connections:</p> <ul style="list-style-type: none"> ● Mathematics ● Science ● Language Arts ● Social Studies 			
Content Statements	Cumulative Progress Indicator	Example Activities	Resources
<p>Identify and define authentic problems and significant questions for investigation.</p> <p>Plan and manage activities to develop a</p>	<p>8.1.5.F.1 Apply digital tools to collect, organize, and analyze data that support a scientific finding.</p>	<ul style="list-style-type: none"> ● United states Research ● Collecting Data ● Brosur 	<ul style="list-style-type: none"> ● Researching ● Microsoft PowerPoint ● Microsoft Word ● Weblender

<p>solution or complete a project.</p> <p>Collect and analyze data to identify solutions and/or make informed decisions.</p> <p>Use multiple processes and diverse perspectives to explore alternative solutions</p>			
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