

**BARRINGTON MIDDLE SCHOOL
TECHNOLOGY CURRICULUM – MAP**

Nat'l Education Technology STANDARDS (NETS)	Nat'l Education Technology (NETS) Outcomes/Benchmarks	RESEARCH-BASED INSTRUCTIONAL STRATEGIES	RESOURCES	RESEARCH-BASED ASSESSMENT EVIDENCE
<p>1. Basic Operations and Concepts</p> <p>1.a. Students demonstrate a sound understanding of the nature and operation of technology systems.</p> <p>1.b. Students are proficient in the use of technology.</p>	<p>Prior to Completion of Grade 8 Students will:</p> <p>Apply strategies for identifying and solving routine hardware and software problems. (1)</p> <p>Demonstrate and understanding of concepts underlying hardware, software, and connectivity, and of practical applications to learning and problem solving. (1,6)</p>	<p>Discuss the difference and interaction with between hardware and software.</p> <p>Model and discuss how to solve real- world computer problems.</p>	<ul style="list-style-type: none"> • BMS Network • All available Network resources • Projectors • Online Resources • Hardware/Software Basics • Supplemental Text 	<p>Authentic Assessment:</p> <p>Informal: Observation, performance- based assessment, oral communication.</p> <p>Formal: Pre assessment, end of unit assessments.</p> <p>Assessments of end of product/artifact through the use of Digital Portfolio.</p>

**BARRINGTON MIDDLE SCHOOL
TECHNOLOGY CURRICULUM – MAP**

Nat'l Education Technology STANDARDS (NETS)	Nat'l Education Technology (NETS) Outcomes/Benchmarks	RESEARCH-BASED INSTRUCTIONAL STRATEGIES	RESOURCES	RESEARCH-BASED ASSESSMENT EVIDENCE
<p>2. Social, Ethical, and Human Issues</p> <p>2.a. Students understand the ethical, cultural, and societal issues related to technology.</p> <p>2.b. Students practice responsible use of technology systems, information, and software.</p> <p>2.c. Students develop positive attitudes towards technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.</p>	<p>Demonstrate knowledge of current changes in information technologies and the effect those changes have on the workplace and society. (2)</p> <p>Exhibit legal and ethical behaviors when using information and technology, and discuss consequences of misuse. (2)</p> <p>Research and evaluate the accuracy relevance, appropriateness, comprehensiveness, and bias electronic information sources concerning real-world problems. (2,5,6)</p>	<p>Discuss, model, and provide experiences whereby students can learn about various technologies and how they affect the world and solving problems.</p> <p>Model appropriate and ethical use of informational technologies and discuss consequences of illegal and unethical behaviors.</p> <p>Discuss, demonstrate and provide opportunities to evaluate online resources.</p>	<ul style="list-style-type: none"> • BMS Network • All available Network resources • Projectors • Online Resources • Hardware/Software Basics • Digital Instructional Templates 	<p>Authentic Assessment:</p> <p>Informal: Observation, performance- based assessment, oral communication.</p> <p>Formal: Pre assessment, end of unit assessments.</p> <p>Assessments of end of product/artifact through the use of Digital Portfolio.</p>

**BARRINGTON MIDDLE SCHOOL
TECHNOLOGY CURRICULUM – MAP**

Nat'l Education Technology STANDARDS (NETS)	Nat'l Education Technology (NETS) Outcomes/Benchmarks	RESEARCH-BASED INSTRUCTIONAL STRATEGIES	RESOURCES	RESEARCH-BASED ASSESSMENT EVIDENCE
<p>3. Technology Productivity Tools</p> <p>3.a. Students use technology tools to enhance learning, increase productivity, and promote creativity.</p> <p>3.b. Students use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.</p>	<p>Use content-specific tools, software, and simulations (e.g., environmental probes, graphing calculators, exploratory environments, Web tools) to support learning and research. [3,5)</p> <p>Apply productivity/multi media tools and peripherals to support personal productivity, group collaboration, and learning throughout the curriculum. (3,6)</p>	<p>Model the use of Microsoft Office applications, Internet use, for the construction of reports, research projects and presentations.</p> <p>Provide opportunities for students to interact with available software programs that support personal productivity, group collaboration, and learning throughout the curriculum.</p>	<ul style="list-style-type: none"> • BMS Network • All Available Resources • • Movie Maker/ Media Player • Worksheets • Overhead Projectors • Internet • Digital Instructional Templates 	<p>Authentic Assessment:</p> <p>Informal: Observation, performance- based assessment, oral communication.</p> <p>Formal: Pre assessment, end of unit assessments.</p> <p>Assessments of end of product/artifact through the use of Digital Portfolio.</p>

**BARRINGTON MIDDLE SCHOOL
TECHNOLOGY CURRICULUM – MAP**

Nat'l Education Technology STANDARDS (NETS)	Nat'l Education Technology (NETS) Outcomes/Benchmarks	RESEARCH-BASED INSTRUCTIONAL STRATEGIES	RESOURCES	RESEARCH-BASED ASSESSMENT EVIDENCE
<p>4. Technology Communications Tools</p> <p>4.a. Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.</p> <p>4.b. Students use a variety of media and formats to communicate information and idea effectively to multiple audiences.</p>	<p>Design, develop, publish, and present products (e.g. Web pages, videotapes) using technology resources that demonstrate and communicate curriculum concepts to audiences inside and outside the classroom. (4,5,6)</p> <p>Collaborate with peers, experts, and others using telecommunications and collaborative tools to investigate curriculum-related problems, issues and information, and to develop solutions or products for audiences inside and outside the classroom. (4,5)</p>	<p>Discuss how to use all available resources to communicate ideas and concepts to a broad range of audiences both inside and outside the classroom i.e. Internet, email and websites</p> <p>Demonstrate how to use telecommunications presentations, websites, email, and the internet to communicate with multiple audiences.</p>	<ul style="list-style-type: none"> • BMS Network • All Available Resources • Movie Maker/ Media Player • Worksheets • Overhead Projectors • Internet • Digital Instructional Templates 	<p>Authentic Assessment:</p> <p>Informal: Observation, performance- based assessment, oral communication.</p> <p>Formal: Pre assessment, end of unit assessments.</p> <p>Assessments of end of product/artifact through the use of Digital Portfolio.</p>

**BARRINGTON MIDDLE SCHOOL
TECHNOLOGY CURRICULUM – MAP**

Nat'l Education Technology STANDARDS (NETS)	Nat'l Education Technology (NETS) Outcomes/Benchmarks	RESEARCH-BASED INSTRUCTIONAL STRATEGIES	RESOURCES	RESEARCH-BASED ASSESSMENT EVIDENCE
<p>5. Technology Research Tools</p> <p>5.a. Students use technology to locate, evaluate, and collect information from a variety of sources.</p> <p>5.b. Students use technology tools to process data and report results.</p> <p>5.c. Students evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks.</p>	<p>Research and evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources concerning real-world problems. (2,5,6)</p> <p>Use content-specific tools, software, and simulations (e.g., environmental probes, graphing calculators, exploratory environments, Web tools) to support learning and research. [3,5]</p> <p>Collaborate with peers, experts, and others using telecommunications and collaborative tools to investigate curriculum-related problems, issues and information, and to develop solutions or products for audiences inside and outside the classroom. (4,5)</p> <p>Design, develop, publish, and present products (e.g. Web pages, videotapes) using technology resources that demonstrate and communicate curriculum concepts to audiences inside and outside the classroom. (4,5,6)</p> <p>Select and use appropriate tools and technology resources to accomplish a variety of tasks and solve problems. (5,6)</p>	<p>Model and facilitate how technology resources can be used independently and collectively to: solve problems, collect & analyze data, prepare written works, and provide opportunities to enhance learning and cooperation throughout the curriculum.</p> <p>Model and facilitate how to design and prepare written and oral works for publication to communicate ideas and solutions to audiences.</p>	<ul style="list-style-type: none"> • BMS Network • All Available Resources • Movie Maker/ Media Player • Worksheets • Overhead Projectors • Internet • Digital Instructional Templates 	<p>Authentic Assessment:</p> <p>Informal: Observation, performance- based assessment, oral communication.</p> <p>Formal: Pre assessment, end of unit assessments.</p> <p>Assessments of end of product/artifact through the use of Digital Portfolio.</p>

**BARRINGTON MIDDLE SCHOOL
TECHNOLOGY CURRICULUM – MAP**

Nat'l Education Technology STANDARDS (NETS)	Nat'l Education Technology (NETS) Outcomes/Benchmarks	RESEARCH-BASED INSTRUCTIONAL STRATEGIES	RESOURCES	RESEARCH-BASED ASSESSMENT EVIDENCE
<p>6. Technology Problem-solving and Decision-making Tools</p> <p>6.a. Students use technology resources for solving-problems and making informed decisions.</p> <p>6.b. Students employ technology in the development of strategies for solving problems in the real world.</p>	<p>Research and evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources concerning real-world problems. (2,5,6)</p> <p>Apply productivity/multi media tools and peripherals to support personal productivity, group collaboration, and learning throughout the curriculum. (3,6)</p> <p>Design, develop, publish, and present products (e.g. Web pages, videotapes) using technology resources that demonstrate and communicate curriculum concepts to audiences inside and outside the classroom. (4,5,6)</p> <p>Select and use appropriate tools and technology resources to accomplish a variety of tasks and solve problems. (5,6)</p> <p>Research and evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources concerning real-world problems. (2,5,6)</p>	<p>Provide student's with opportunities to explore and use technology resources to; solve problems, collect & analyze data, prepare written works, and to collaborate with other students.</p> <p>Provide students with opportunities to use technology to enhance learning and cooperation throughout the curriculum.</p> <p>Provide opportunities for students to design and prepare written and oral works for publication to communicate ideas and solutions to audiences.</p>	<ul style="list-style-type: none"> • BMS Network • All Available Resources • Movie Maker/ Media Player • Worksheets • Overhead Projectors • Internet • Digital Instructional Templates 	<p>Authentic Assessment:</p> <p>Informal: Observation, performance- based assessment, oral communication.</p> <p>Formal: Pre assessment, end of unit assessments.</p> <p>Assessments of end of product/artifact through the use of Digital Portfolio.</p>

**BARRINGTON MIDDLE SCHOOL
TECHNOLOGY CURRICULUM – MAP**