

Portage Township Schools Technology Skills and Indiana Computer Science Standards Quick Reference Guide
 Educating, Empowering, and Inspiring Excellence

Grade: Kindergarten	Teachers:	Resources:
Computer Science	<p>Code Studio:</p> <ul style="list-style-type: none"> ● Create your own account using your @portage.k12.in.us email address ● Course One for all Kindergarten students ● Unplugged lessons are available when devices are not. 	<p>https://studio.code.org</p> <p>You have the option of creating accounts for all of your students, it is very easy to do. With managed accounts, you have the ability to track progress and manage accounts.</p> <p>ISTE Standards Alignment: https://code.org/curriculum/docs/k-5/framework_course1.pdf</p> <p>Reference to Indiana Computer Science Standards: Computer Science Standards K</p>
Skills	<p><i>District's Technology Skills Scope and Sequence</i></p> <p>Kindergarten Skills Introduction and Reinforcement</p>	<p>K-5 Scope and Sequence</p> <p>Math Seeds, Reading Eggs/Eggspress, Study Island, Education City (Computer Skills), AR, NWEA</p>
Digital Citizenship	<p>Common Sense Media</p> <ul style="list-style-type: none"> ● Select Grade Band: K-2 ● Select Unit 1 ● Complete Lessons: 1-5 <p><i>Note: All printable PDFs do not require having a device in the classroom. Some lessons have introductory video that can be shown before lesson.</i></p>	<p>https://www.common Sense Media.org/educators/scope-and-sequence</p> <p>Students take the unit one assessment at the end of the year.</p> <p>Digital Citizenship Outline</p>

Grade: 1	Teachers:	Resources:
Computer Science	Code Studio: <ul style="list-style-type: none"> ● Create your own account using your @portage.k12.in.us email address ● Course Two for First Grade Students. ● Unplugged lessons are available when devices are not. 	https://studio.code.org You have the option of creating accounts for all of your students, it is very easy to do. With managed accounts, you have the ability to track progress and manage accounts. ISTE Standards Alignment: https://code.org/curriculum/docs/k-5/framework_course2.pdf Reference to Indiana Computer Science Standards: Computer Science Standards 1
Skills	<i>District's Technology Skills Scope and Sequence</i> First Grade Skills Introduction and Reinforcement	K-5 Scope and Sequence www.typing.com Introduction to typing, skills will not be assessed. Reading Eggs/Eggspress, Study Island, Education City (Computer Skills), AR, NWEA
Digital Citizenship	Common Sense Media <ul style="list-style-type: none"> ● Select Grade Band: K-2 ● Select Unit 2 ● Complete Lessons: 1-5 <i>Note: All printable PDFs do not require having a device in the classroom. Some lessons have introductory video that can be shown before lesson.</i>	https://www.common sense media.org/educators/scope-and-sequence Students take the unit one assessment at the beginning of the year. Students take the unit two assessment at the end of the year. Digital Citizenship Outline

Grade: 2	Teachers:	Resources
Computer Science	<p>Code Studio:</p> <ul style="list-style-type: none"> • Create your own account using your @portage.k12.in.us email address • Course Two for Second Grade Students. • Unplugged lessons are available when devices are not. 	<p>https://studio.code.org</p> <p>You have the option of creating accounts for all of your students, it is very easy to do. With managed accounts, you have the ability to track progress and manage accounts.</p> <p>ISTE Standards Alignment: https://code.org/curriculum/docs/k-5/framework_course2.pdf</p> <p>Reference to Indiana Computer Science Standards: Computer Science Standards 2</p>
Skills	<p><i>District's Technology Skills Scope and Sequence</i></p> <p>Second Grade Skills Introduction and Reinforcement</p>	<p>K-5 Scope and Sequence</p> <p>www.typing.com</p> <p>Introduction to typing, skills will not be assessed.</p> <p>Study Island, Education City (Computer Skills), AR, NWEA</p>
Digital Citizenship	<p>Common Sense Media</p> <ul style="list-style-type: none"> • Select Grade Band: K-2 • Select Unit 3 • Complete Lessons: 1-5 <p><i>Note: All printable PDFs do not require having a device in the classroom. Some lessons have introductory video that can be shown before lesson.</i></p>	<p>https://www.common sense media.org/educators/scope-and-sequence</p> <p>Students take the unit two assessment at the beginning of the year.</p> <p>Students take the unit three assessment at the end of the year.</p> <p>Digital Citizenship Outline</p>

Grade: 3	Teacher:	Resources
Computer Science	Code Studio: <ul style="list-style-type: none"> ● Create your own account using your @portage.k12.in.us email address ● Course Three for Third Grade Students. ● Unplugged lessons are available when devices are not. 	<p>https://studio.code.org You have the option of creating accounts for all of your students, it is very easy to do. You have the ability to track progress and manage accounts.</p> <p>ISTE Standards Alignment: https://code.org/curriculum/docs/k-5/framework_course3.pdf</p> <p>Reference to Indiana Computer Science Standards: Computer Science Standards 3</p>
Skills	<p>Basic Functions of a Computer <i>Skills listed on District's Technology Skills Scope and Sequence</i></p> <p>Third Grade Skills Introduction and Reinforcement</p>	<p>K-5 Scope and Sequence</p> <p>www.typing.com Students will log in to typing.com using their google account and begin to log their skills and report them to their teacher. Introduction to typing, skills will be assessed.</p> <p>Study Island, Education City (Computer Skills), AR, NWEA</p>
Digital Citizenship	<p>Common Sense Media</p> <ul style="list-style-type: none"> ● Select Grade Band: 3-5 ● Select Unit 1 ● Complete Lessons: 1-5 <p><i>Note: All printable PDFs do not require having a device in the classroom.</i></p>	<p>https://www.common Sense Media.org/educators/scope-and-sequence</p> <p>Students take the unit three (Band K-2) assessment at the beginning of the year.</p> <p>Students take the unit one assessment at the end of the year.</p> <p>Digital Citizenship Outline</p>

Grade: 4	Teacher:	Resources:
Computer Science	<p>Code Studio:</p> <ul style="list-style-type: none"> ● Create your own account using your @portage.k12.in.us email address ● Course Three for Fourth Grade Students. ● Unplugged lessons are available when devices are not. 	<p>https://studio.code.org</p> <p>You have the option of creating accounts for all of your students, it is very easy to do. You have the ability to track progress and manage accounts.</p> <p>ISTE Standards Alignment: https://code.org/curriculum/docs/k-5/framework_course3.pdf</p> <p>Reference to Indiana Computer Science Standards: Computer Science Standards 4</p>
Skills	<p>Basic Functions of a Computer <i>Skills listen on District's Technology Skills Scope and Sequence</i></p> <p>Fourth Grade Skills Introduction and Reinforcement</p>	<p>K-5 Scope and Sequence</p> <p>www.typing.com</p> <p>Students will log in to typing.com using their google account and begin to log their skills and report them to their teacher.</p> <p>Introduction to typing, skills will not be assessed. Study Island, Education City (Computer Skills), AR, NWEA</p>
Digital Citizenship	<p>Common Sense Media</p> <ul style="list-style-type: none"> ● Select Grade Band: 3-5 ● Select Unit 2 ● Complete Lessons: 1-5 <p><i>Note: All printable PDFs do not require having a device in the classroom. Some lessons have introductory video that can be shown before lesson.</i></p>	<p>https://www.commonsensemedia.org/educators/scope-and-sequence</p> <p>Students take the unit one assessment at the beginning of the year.</p> <p>Students take the unit two assessment at the end of the year.</p> <p>Digital Citizenship Outline</p>

Grade: 5	Teacher:	Resources:
Computer Science	Code Studio: <ul style="list-style-type: none"> ● Create your own account using your @portage.k12.in.us email address ● Course Three for Fifth Grade Students. ● Unplugged lessons are available when devices are not. 	https://studio.code.org You have the option of creating accounts for all of your students, it is very easy to do. You have the ability to track progress and manage accounts. ISTE Standards Alignment: https://code.org/curriculum/docs/k-5/framework_course3.pdf Reference to Indiana Computer Science Standards: Computer Science Standards 5
Skills	Basic Functions of a Computer <i>Skills listen on District's Technology Skills Scope and Sequence</i> Fifth Grade Skills Introduction and Reinforcement	K-5 Scope and Sequence www.typing.com Students will log in to typing.com using their google account and begin to log their skills and report them to their teacher. Introduction to typing, skills will not be assessed. Study Island, Education City (Computer Skills), AR, NWEA
Digital Citizenship	Common Sense Media <ul style="list-style-type: none"> ● Select Grade Band: 3-5 ● Select Unit 3 ● Complete Lessons: 1-5 <i>Note: All printable PDFs do not require having a device in the classroom. Some lessons have introductory video that can be shown before lesson.</i>	https://www.common Sense Media.org/educators/scope-and-sequence Students take the unit two assessment at the beginning of the year. Students take the unit three assessment at the end of the year. Digital Citizenship Outline

Grade: 6	Teacher:	Resources:
Computer Science (Blended into Science classes)	Code Studio: <ul style="list-style-type: none"> ● Create your own account using your @portage.k12.in.us email address ● Course Four for Sixth Grade Students. 	<p>https://studio.code.org You have the option of creating accounts for all of your students, it is very easy to do. You have the ability to track progress and manage accounts.</p> <p>ISTE Standards Alignment: https://code.org/curriculum/docs/k-5/framework_course4.pdf</p> <p>Reference to Indiana Computer Science Standards: Computer Science Standards 6</p>
Skills	Basic Functions of a Computer <i>Skills listed on District's Technology Skills Scope and Sequence</i>	<p>6-12 Scope and Sequence</p> <p>www.typing.com Students will log in to typing.com using their google account and begin to log their skills and report them to their teacher. Study Island, AR, IXL Math, IXL Language Arts, Discovery Education Social Studies, NWEA, Schoology</p>
Digital Citizenship	Common Sense Media <ul style="list-style-type: none"> ● Select Grade Band: 6-8 ● Select Unit 1 ● Complete Lessons: 1-5 <p><i>Note: All printable PDFs do not require having a device in the classroom. Some lessons have introductory video that can be shown before lesson.</i></p>	<p>https://www.common Sense Media.org/educators/scope-and-sequence</p> <p>Students take the unit three (Band 3-5) assessment at the beginning of the year.</p> <p>Students take the unit one assessment at the end of the year. Digital Citizenship Outline</p>

Grade: 7	Teacher:	Resources:
Computer Science (Blended into Science classes)	Code Studio: <ul style="list-style-type: none"> ● Create your own account using your @portage.k12.in.us email address ● Course Four for Seventh Grade Students. 	https://studio.code.org You have the option of creating accounts for all of your students, it is very easy to do. You have the ability to track progress and manage accounts. ISTE Standards Alignment: https://code.org/curriculum/docs/k-5/framework_course4.pdf Reference to Indiana Computer Science Standards: Computer Science Standards 7
Skills	Basic Functions of a Computer <i>Skills listed on District's Technology Skills Scope and Sequence</i>	6-12 Scope and Sequence www.typing.com Students will log in to typing.com using their google account and begin to log their skills and report them to their teacher. Study Island, AR, IXL Math, IXL Language Arts, Discovery Education Social Studies, NWEA, Schoology
Digital Citizenship	Common Sense Media <ul style="list-style-type: none"> ● Select Grade Band: 6-8 ● Select Unit 2 ● Complete Lessons: 1-5 <i>Note: All printable PDFs do not require having a device in the classroom. Some lessons have introductory video that can be shown before lesson.</i>	https://www.common Sense Media.org/educators/scope-and-sequence Students take the unit one assessment at the beginning of the year. Students take the unit two assessment at the end of the year. Digital Citizenship Outline

Grade: 8	Teacher:	Resources:
Computer Science (Blended into Science classes)	<p>Code Studio:</p> <ul style="list-style-type: none"> • Create your own account using your @portage.k12.in.us email address • Course Four for Eighth Grade Students. 	<p>https://studio.code.org</p> <p>You have the option of creating accounts for all of your students, it is very easy to do. You have the ability to track progress and manage accounts.</p> <p>ISTE Standards Alignment: https://code.org/curriculum/docs/k-5/framework_course4.pdf</p> <p>Reference to Indiana Computer Science Standards: Computer Science Standards 8</p>
Skills	<p>Basic Functions of a Computer <i>Skills listen on District's Technology Skills Scope and Sequence</i></p>	<p>6-12 Scope and Sequence</p> <p>www.typing.com</p> <p>Students will log in to typing.com using their google account and begin to log their skills and report them to their teacher. Study Island, AR, IXL Math, IXL Language Arts, Discovery Education Social Studies, NWEA, Schoology</p>
Digital Citizenship	<p>Common Sense Media</p> <ul style="list-style-type: none"> • Select Grade Band: 6-8 • Select Unit 3 • Complete Lessons: 1-5 <p><i>Note: All printable PDFs do not require having a device in the classroom. Some lessons have introductory video that can be shown before lesson.</i></p>	<p>https://www.common sense media.org/educators/scope-and-sequence</p> <p>Students take the unit two assessment at the beginning of the year.</p> <p>Students take the unit three assessment at the end of the year.</p> <p>Digital Citizenship Outline</p>

Grade: 9-12		Teacher:	Resources:
Computer Science			
Skills		<p>Basic Functions of a Computer <i>Skills listen on District's Technology Skills Scope and Sequence</i></p>	<p>6-12 Scope and Sequence</p> <p>www.typing.com Students will log in to typing.com using their google account and begin to log their skills and report them to their teacher.</p> <p>IXL Math, AR, A+, Naviance, Plato (Foreign Language, Ed Options (Latin), Schoology</p>
Digital Citizenship Completed During Tribe Time		<p>Common Sense Media</p> <ul style="list-style-type: none"> ● Select Grade Band: 9-12 ● Select Unit 1 (9th) ● Select Unit 2 (10th) ● Select Unit 3 (11th) ● Select Unit 4 (12th) ● Complete Lessons: 1-5 <p><i>Note: All printable PDFs do not require having a device in the classroom.</i></p> <p><i>Some lessons have introductory video that can be shown before lesson.</i></p>	<p>https://www.common sense media.org/educators/scope-and-sequence</p> <p>Students take the unit assessment at the end of the year.</p> <p>Digital Citizenship Outline</p>

Kindergarten

Introduce:

Basic Operations	K-2.CD.1 3-5.CD.1	Turn on a computer and log in
Basic Operations	K-2.CD.1 3-5.CD.1	Use pointing device such as a mouse to manipulate shapes, icons, click on urls, radio buttons, check boxes, use scroll button
Basic Operations	K-2.DI.3 3-5.CD.2,3	Use desktop icons, windows and menus to open applications and documents
Basic Operations	K-2.CD.1 3-5.CD.1	Keyboarding <ul style="list-style-type: none"> · Use proper posture and ergonomics · Locate and use letter and number keys with left and right hand placement · Locate and use correct finger, hand for space bar, return/enter and shift key · Gain proficiency and speed in touch typing
Multimedia/Presentation	K-2.PA.1 3-5.NC.1	Watch online videos and use play, pause, rewind and forward buttons while taking notes
Responsible Use, Copyright, and Plagiarism	K-2.IC.1 3-5.IC.1	Explain and demonstrate compliance with classroom, school rules (RUP) regarding responsible use of electronic devices and networks

Responsible Use, Copyright, and Plagiarism	K-2.IC.2 3-5.IC.2	Explain responsible uses of technology and digital information; describe possible consequences of inappropriate use
Responsible Use, Copyright, and Plagiarism	K-2.IC.2 3-5.IC.2	Identify cyberbullying and describe strategies to deal with such a situation
Research and Information Gathering	K-2.PA.1 3-5.IC.3,4	Use age appropriate technologies to locate, collect, organize content from media collection for specific purposes, citing sources
Research and Information Gathering	K-2.NC.2	Evaluate teacher-selected or self-selected Internet resources in terms of their usefulness for research
Research and Information Gathering	K-2.NC.2 3-5.PA.1	Identify and analyze the purpose of a media message (to inform, persuade, and entertain)

First Grade

Introduce:

Basic Operations	K-2.CD.1 3-5.NC.2	File Management – saving documents
Word Processing	K-2.DI.1 3-5.NC.2	Use a word processing (Word, Docs, Pages) application to write, edit, print and save simple assignments
Word Processing	K-2.DI.1 3-5.NC.2	<ul style="list-style-type: none"> · Copy and paste images within the document and from outside sources · Insert and size a graphic in a document
Multimedia/ Presentation	K-2.PA.2 3-5.NC.2	Create, edit and format text on a slide (Power Point, Slides, Keynote)
Multimedia/ Presentation	K-2.PA.2 3-5.NC.2	Create a series of slides and organize them to present research or convey an idea
Responsible Use, Copyright, and Plagiarism	K-2.IC.1 3-5.IC.4	Explain fair use guidelines for the use of copyrighted materials (e.g. text, images, music, video in student projects) and giving credit to creators
Responsible Use, Copyright, and Plagiarism	K-2.IC.2 3-5.IC.2,3	Recognize and describe potential risks and dangers associated with various forms of online communication (social media)
Communication/ Collaboration	K-2.NC.1 3-5.NC.1	Use a variety of age-appropriate technologies (e.g. drawing program, presentation software) to communicate and exchange ideas

Reinforcement:

Basic Operations	K-2.CD.1 3-5.CD.1	Turn on a computer and log in
Basic Operations	K-2.CD.1 3-5.CD.1	Use pointing device such as a mouse to manipulate shapes, icons, click on urls, radio buttons, check boxes, use scroll button
Basic Operations	K-2.DI.3 3-5.CD.2,3	Use desktop icons, windows and menus to open applications and documents
Basic Operations	K-2.CD.1 3-5.CD.1	<p>Keyboarding</p> <ul style="list-style-type: none"> · Use proper posture and ergonomics · Locate and use letter and number keys with left and right hand placement · Locate and use correct finger, hand for spacebar, return/enter and shift key · Gain proficiency and speed in touch typing
Multimedia/Presentation	K-2.PA.1 3-5.NC.1	Watch online videos and use play, pause, rewind and forward buttons while taking notes
Responsible Use, Copyright, and Plagiarism	K-2.IC.1 3-5.IC.1	Explain and demonstrate compliance with classroom, school rules (RUP) regarding responsible use of electronic devices and networks
Responsible Use, Copyright, and Plagiarism	K-2.IC.2 3-5.IC.2	Explain responsible uses of technology and digital information; describe possible consequences of inappropriate use
Responsible Use, Copyright, and	K-2.IC.2 3-5.IC.2	Identify cyberbullying and describe strategies to deal with such a situation

Plagiarism		
Research and Information Gathering	K-2.PA.1 3-5.IC.3,4	Use age appropriate technologies to locate, collect, organize content from media collection for specific purposes, citing sources
Research and Information Gathering	K-2.NC.2	Evaluate teacher-selected or self-selected Internet resources in terms of their usefulness for research
Research and Information Gathering	K-2.NC.2 3-5.PA.1	Identify and analyze the purpose of a media message (to inform, persuade, and entertain)

Second Grade

Introduce:

Word Processing	K-2.DI.1 3-5.NC.2	Highlight text, copy and paste text
Word Processing	K-2.DI.1 3-5.NC.2	Proofread and edit writing using appropriate resources (e.g. dictionary, spell checker, grammar, and thesaurus)
Multimedia/ Presentation	K-2.PA.2 3-5.NC.2	Use painting and drawing tools/applications to create and edit work
Responsible Use, Copyright, and Plagiarism	K-2.IC.1 3-5.IC.2	Identify and explain the strategies for the safe and efficient use of electronic devices (e.g. passwords, virus protection, spam, pop up blockers)
Research and Information Gathering	K-2.PA.1	Perform basic searches on databases, (e.g. library, card catalog, encyclopedia) to locate information
Communication/ Collaboration	K-2.NC.1 3-5.NC.1	Work collaboratively online with other students under teacher supervision
Communication/ Collaboration	K-2.PA.2 3-5.NC.1,2	Create projects that use text and various forms of graphics, audio, and video, (with proper citations) to communicate ideas
Communication/ Collaboration	K-2.NC.1,2 3-5.NC.1,2	Use district approved Web 2.0 tools for communication and collaboration

Reinforcement:

Basic Operations	K-2.CD.1 3-5.NC.2	File Management – saving documents
Word Processing	K-2.DI.1 3-5.NC.2	Use a word processing (Word, Docs, Pages) application to write, edit, print and save simple assignments
Word Processing	K-2.DI.1 3-5.NC.2	Use menu/tool bar functions (e.g. font/size/style/line spacing/margins) to format, edit, and print a document
Word Processing	K-2.DI.1 3-5.NC.2	<ul style="list-style-type: none"> · Copy and paste images within the document and from outside sources · Insert and size a graphic in a document
Multimedia/ Presentation	K-2.PA.2 3-5.NC.2	Create, edit and format text on a slide (Power Point, Slides, Keynote)
Multimedia/ Presentation	K-2.PA.2 3-5.NC.2	Create a series of slides and organize them to present research or convey an idea
Responsible Use, Copyright, and Plagiarism	K-2.IC.1 3-5.IC.4	Explain fair use guidelines for the use of copyrighted materials (e.g. text, images, music, video in student projects) and giving credit to creators
Responsible Use, Copyright, and Plagiarism	K-2.IC.2 3-5.IC.2,3	Recognize and describe potential risks and dangers associated with various forms of online communication (social media)

Third Grade
Introduce:

Spreadsheet tables/charts	3-5.NC.2	Demonstrate an understanding of the spreadsheet as a tool to record, organize, and graph information
Spreadsheet tables/charts	3-5.NC.2	Identify and explain terms and concepts related to spreadsheets (i.e. cell, column, row, values, labels, chart/graph)
Spreadsheet tables/charts	3-5.NC.2	Enter/edit data in spreadsheets and perform calculations using formulas
Spreadsheet tables/charts	3-5.PA.1	Use mathematical symbols (e.g. + add, - minus, * multiply, /divide, ^exponents)
Spreadsheet tables/charts	3-5.PA.1	Use spreadsheets and other applications to make predictions, solve problems, and draw conclusions
Multimedia/Presentation	3-5.NC.2	Copy and paste or import graphics; change their size and position on a slide
Responsible Use, Copyright, and Plagiarism	3-5.IC.2	Demonstrate safe email practices, recognition of the potentially public exposure of email and appropriate email etiquette
Research and Information Gathering	3-5.PA.1,2	Use content specific technology tools (e.g. environmental probes, sensors, measuring devices, and simulations) to gather and analyze data
Research and Information	3-5.NC.1	Use Web 2.0 tools (e.g. online discussions, blogs, and wikis) to gather and share information

Gathering		
Communication/ Collaboration	3-5.NC.1,2	Use teacher developed guidelines to evaluate multimedia presentations for organization, content, design, presentation and appropriateness of citations

Reinforcement:

Word Processing	K-2.DI.1 3-5.NC.2	Highlight text, copy and paste text
Word Processing	K-2.DI.1 3-5.NC.2	Proofread and edit writing using appropriate resources (e.g. dictionary, spell checker, grammar, and thesaurus)
Multimedia/ Presentation	K-2.PA.2 3-5.NC.2	Use painting and drawing tools/applications to create and edit work
Responsible Use, Copyright, and Plagiarism	K-2.IC.1 3-5.IC.2	Identify and explain the strategies for the safe and efficient use of electronic devices (e.g. passwords, virus protection, spam, pop up blockers)
Research and Information Gathering	K-2.PA.1	Perform basic searches on databases, (e.g. library, card catalog, encyclopedia) to locate information
Communication/ Collaboration	K-2.NC.1 3-5.NC.1	Work collaboratively online with other students under teacher supervision

Communication/ Collaboration	K-2.PA.2 3-5.NC.1,2	Create projects that use text and various forms of graphics, audio, and video, (with proper citations) to communicate ideas
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Communication/ Collaboration	K-2.NC.1,2 3-5.NC.1,2	Use district approved Web 2.0 tools for communication and collaboration
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Fourth Grade

Introduce:

None

Reinforce:

Spreadsheet tables/charts	3-5.NC.2	Demonstrate an understanding of the spreadsheet as a tool to record, organize, and graph information
Spreadsheet tables/charts	3-5.NC.2	Identify and explain terms and concepts related to spreadsheets (i.e. cell, column, row, values, labels, chart/graph)
Spreadsheet tables/charts	3-5.NC.2	Enter/edit data in spreadsheets and perform calculations using formulas
Spreadsheet tables/charts	3-5.PA.1	Use mathematical symbols (e.g. + add, - minus, * multiply, /divide, ^exponents)
Spreadsheet tables/charts	3-5.PA.1	Use spreadsheets and other applications to make predictions, solve problems, and draw conclusions
Multimedia/Presentation	3-5.NC.2	Copy and paste or import graphics; change their size and position on a slide
Responsible Use, Copyright, and Plagiarism	3-5.IC.2	Demonstrate safe email practices, recognition of the potentially public exposure of email and appropriate email etiquette
Research and Information Gathering	3-5.PA.1,2	Use content specific technology tools (e.g. environmental probes, sensors, measuring devices, and simulations) to gather and analyze data

Research and Information Gathering	3-5.NC.1	Use Web 2.0 tools (e.g. online discussions, blogs, and wikis) to gather and share information
Communication/ Collaboration	3-5.NC.1,2	Use teacher developed guidelines to evaluate multimedia presentations for organization, content, design, presentation and appropriateness of citations

Fifth Grade:

Introduce:

None

Reinforce:

None

Students should demonstrate all of the K-5 skills throughout the school year.