

Warren Township Schools Computer Science Curriculum

District Mission Statement

The Mission of the Warren Township School District, in partnership with the family and community, is to create an environment in which each child is valued and experiences the challenge and excitement of learning.

Computer Science Curriculum Goals

All students will be expected to develop skills in the use of technology as a tool to enhance learning so that they may be prepared to achieve personal, academic and career goals.

Students will be expected to:

- Select appropriate technological tools such as telecommunications and networking for problem-solving, writing and research,
- Develop, locate, organize, synthesize, summarize and evaluate information, and
- Use this research to produce products and presentations.

The Computer Science Curriculum is aligned to standards as expressed by the New Jersey Core Content Standards (2004). These standards, with benchmarks at Grades 4 and 8, demonstrate the expectations that our students must meet in order to become functional and contributing members of the society of the 21st century and the challenges of their future.

Warren Township Schools

Computer Science Skills Array

BASIC COMPUTER SKILLS AND TOOLS												APPLICATION OF PRODUCTIVITY TOOLS												
Grade	Use technology vocabulary	Understand and use features of an operating system.	Use grade appropriate effective input and output of text and data.	Use files, folders, or networking resources to store or retrieve data.	Use computer icons.	Create, organize and manipulate shortcuts.	Produce grade appropriate documents using age appropriate software.	Create and use graphic organizers to create, construct or design a document.	Plan and create a database, define fields, input data, and produce a report using sort and query.	Produce and interpret graphs and charts by entering data on a spreadsheet.	Merge information from one document to another.	Create and produce a grade appropriate multimedia presentation/project.	Explain the purpose of an Acceptable Use Policy and consequence of inappropriate use of technology.	Practice safe Internet usage and appropriate Internet and email etiquette.	Demonstrate an understanding of how current and future technology impacts or will impact society.	Recognize and exhibit social, legal and ethical behaviors when using information and technology; understand consequences for misuse (i.e., plagiarism of copyrighted material)	Choose appropriate technology information resources to support research and solve real world problems.	Identify and use appropriate, accurate and relevant electronic information sources to solve real problems.	Compose, send, and organize email messages with and without attachments.	Locate specific information by searching a database; evaluate the accuracy and relevance of that information.	Utilize and manipulate computer applications to independently or collaboratively solve problems.	Identify hardware problems and suggest solutions to solve them.	Identify a problem and formulate a strategy to solve the problem using technology tools, brainstorming, flowcharting, and appropriate resources.	
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Basic Operations & Concepts						Software Applications						Social, Ethical & Human Issues				Information Access Research Tools		Problem Solving & Decision Making Skills						

**Warren Township Schools
Internet Safety Curriculum Matrix**

LESSONS

	CyberCommunity Citizenship	Personal Safety & Internet Use	CyberSecurity	Intellectual Property	CyberBullying	
Kindergarten	Technology Teachers	Technology Teachers	Technology Teachers			
Grade 1	Technology Teachers	Technology Teachers	Technology Teachers			
Grade 2	Technology Teachers	Technology Teachers	Technology Teachers			
Grade 3	Technology Teachers	Technology Teachers	Technology Teachers	Librarians		
Grade 4	Technology Teachers	Technology Teachers	Technology Teachers	Librarians	Guidance Counselors	
	CyberCommunity Citizenship	Personal Safety & Internet Use	CyberSecurity	Intellectual Property	CyberBullying	CyberPredator Awareness
Grade 5	Technology Teachers	Technology Teachers	Technology Teachers	Librarians	Guidance Counselors	Guidance Counselors
Grade 6	Technology Teacher	Technology Teacher	Technology Teacher	Librarian	Guidance Counselors	Guidance Counselors
Grade 7	Technology Teachers	Technology Teachers	Technology Teachers	Librarian	Guidance Counselors	Guidance Counselors
Grade 8	Librarian	Librarian	Librarian	Librarian	Guidance Counselors	Guidance Counselors
LESSON DESCRIPTIONS						
CyberCommunity Citizenship		Concept of a Community on the Internet and Member "Citizen" Responsibilities/Acceptable Use Policy				
Personal Safety & Internet Use		Personal Safety While Online and Need for Adult Supervision and Guidance/Netiquette/Identity Theft				
CyberSecurity		Danger of Computer Viruses and Protecting Computers from Online "Invasion"/Prevention Techniques				
Intellectual Property		Concepts, Vocabulary, Plagiarism,Copyrights and Appropriate Citations				
CyberBullying		Courses of Action and Resources to Address Online Bullying				
CyberPredator Awareness		Age-Appropriate Introduction to Online Predator Danger and Protective Techniques				

**Warren Township Schools
Computer Science Curriculum
Kindergarten**

Basic Computer Skills & Tools/Basic Operations & Concepts				
Standards	Strands	Objectives	Resources	Assessment
NJCCCS		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(4)	A.1,2	•Identify and demonstrate proper use of monitor.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1, 2	•Identify and demonstrate proper use of keyboard.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1,2	•Identify and demonstrate proper use mouse.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1, 2	•Identify and demonstrate proper use of printer.	SMART Board/Lab Work Station	Teacher Observation/Hard Copy
8.1.(4)	A.3	Use proper posture while practicing keyboarding.	Kid Keys 2.0 Teacher Demonstration	Teacher Observation
8.1.(4)	A.3	Use alphabet keys.	Kid Keys 2.0 Teacher Demonstration	Teacher Observation
8.1.(4)	A.3	Use the space bar.	Kid Keys 2.0 Teacher Demonstration	Teacher Observation
8.1.(4)	A.9	Use basic computer icons	SMART Board/Lab Work Station	Teacher Observation

Warren Township Schools
Computer Science Curriculum
Kindergarten

Basic Computer Skills & Tools/Software Applications				
Standards	Strands	Objectives	Resources	Assessment
		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(4)	A.4	•Create, close and print a document.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Identify and demonstrate functions of menu and/or button bar options.	Scholastic Keys	Teacher Observation
8.1.(4)	A.4	•Demonstrate functions of tool palettes.	Scholastic Keys	Teacher Observation

**Warren Township Schools
Computer Science Curriculum
Kindergarten**

Application of Productivity Tools/Social, Ethical & Human Issues				
Standards	Strands	Objectives	Resources	Assessment
NJCCCS				
	<i>Social Aspects</i>	(Teacher Directed)		
		NOTE: Use of the Internet should be done as a group lesson.		
		Accessing and navigating the Internet is done primarily by the teacher.		
		The learner will be able to: (with teacher demonstration and assistance)		
8.1.(4)	B.2	Introduce responsible behaviors while using the Internet	CyberSafety Curriculum/ SMART Board/ Teacher Resources	Class Discussion
8.1.(4)	B.2	Develop an understanding of Warren Township Schools' Acceptable Use Policy.	Warren Township Schools - Acceptable Use Policy	Signed User Policy Form. (If applicable.)

**Warren Township Schools
Computer Science Curriculum
First Grade**

Basic Computer Skills & Tools/Basic Operations & Concepts				
Standards	Strands	Objectives	Resources	Assessment
NJCCCS		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(4)	A.1	•Use basic technology vocabulary	SMART Board/Lab Work Station	Teacher Observation/Hard Copy
8.1.(4)	A.1, 2	•Identify and demonstrate proper use of monitor.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1, 2	•Identify and demonstrate proper use of keyboard.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1, 2	•Identify and demonstrate proper use mouse.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1, 2	•Identify and demonstrate proper use of printer.	SMART Board/Lab Work Station	Teacher Observation/Hard Copy
8.1.(4)	A.3	•Use proper posture while practicing keyboarding.	Kid Keys 2.0 Teacher Demonstration	Teacher Observation
8.1.(4)	A.3	•Use proper keyboarding techniques for wraparound keyboarding, by typing two or more lines without using the Enter key.	Scholastic Keys Teacher Demonstration	Teacher Observation
8.1.(4)	A.3	•Identify, locate and use space bar and shift keys.	Kid Keys 2.0 Teacher Demonstration	Teacher Observation Program Certificate
8.1.(4)	A.3	•Use alphabet keys.	Kid Keys 2.0 Teacher Demonstration	Teacher Observation Program Certificate
8.1.(4)	A.3	•Use punctuation keys.	Kid Keys 2.0 Teacher Demonstration	Teacher Observation Program Certificate
8.1.(4)	A.7	•Follow Start Up and Shut Down Procedures/Reboot	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.9	•Use basic computer icons	SMART Board/Lab Work Station	Teacher Observation

Warren Township Schools
Computer Science Curriculum
First Grade

Basic Computer Skills & Tools/Software Applications				
Standards	Strands	Objectives	Resources	Assessment
		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(4)	A.7	•Create, close and print a document.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.7	•Open and save a document.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.3, 4	•Type text using proper spacing.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.3, 4	•Move the insertion point to insert text.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.3, 4	•Select and delete text.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Identify and demonstrate functions of menu and/or button bar.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Identify and demonstrate functions of cursor.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Demonstrate functions of common tool palettes.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Change the font, size, attribute, and color of text.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Add graphics.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Create objects or images using draw or paint tools/palettes.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Select and deselect objects.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Delete objects.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Move objects.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Resize and/or reshape objects.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Identify cells, rows and columns.	Scholastic Keys-MaxCount	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Enter text in cells.	Scholastic Keys-MaxCount	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Enter numeric data in cells.	Scholastic Keys-MaxCount	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Format cells (font, size, type).	Scholastic Keys-MaxCount	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Edit cells (insert, delete, change cell size, move, copy).	Scholastic Keys-MaxCount	Teacher Observation/Hard Copy
8.1.(4)	A.6	•Open, save, and close a presentation.	Scholastic Keys-MaxShow	Teacher Observation
8.1.(4)	A.6	•Modify a presentation.	Scholastic Keys-MaxShow	Teacher Observation
8.1.(4)	A.6	•Preview and display a presentation.	Scholastic Keys-MaxShow	Teacher Observation
8.1.(4)	A.6	•Insert graphics into a presentation	Scholastic Keys-MaxShow	Teacher Observation

**Warren Township Schools
 Computer Science Curriculum
 First Grade**

Application of Productivity Tools/Social, Ethical & Human Issues				
Standards	Strands	Objectives	Resources	Assessment
NJCCCS		The learner will be able to: (with teacher demonstration and assistance)		
	<i>Social Aspects</i>			
8.1.(4)	B.2	Develop an awareness of proper etiquette while using the Internet.	CyberSafety Curriculum Teacher Resources	Class Discussion
8.1.(4)	B.2	Develop an understanding of Warren Township Schools' Acceptable Use Policy.	Warren Township Schools - Acceptable Use Policy	Signed User Policy Form. (If applicable.)
		NOTE: Use of the Internet should be done as a group lesson. Accessing and navigating the Internet is done primarily by the teacher.		

**Warren Township Schools
Computer Science Curriculum
Second Grade**

Basic Computer Skills & Tools/Basic Operations & Concepts				
Standards	Strands	Objectives	Resources	Assessment
NJCCCS		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(4)	A.1	•Use basic technology vocabulary	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1,2	•Identify and demonstrate proper use of monitor.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1, 2	•Identify and demonstrate proper use of keyboard.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1,2	•Identify and demonstrate proper use mouse.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1, 2	•Identify and demonstrate proper use of printer.	SMART Board/Lab Work Station	Teacher Observation/Hard Copy
8.1.(4)	A.2	•Follow Start Up and Shut Down Procedures/Reboot	Lab Work Station	Turn computer on/off independently
8.1.(4)	A.2	•Save, find and open specific files.	Various Software	Teacher Observation
8.1.(4)	A.3	•Use proper posture while practicing keyboarding.	Type to Learn Jr./Type to Learn 4 Teacher Demonstration	Teacher Observation
8.1.(4)	A.3	•Use proper keyboarding techniques for wraparound keyboarding, by typing two or more lines without using the Enter key.	Scholastic Keys Teacher Demonstration	Teacher Observation
8.1.(4)	A.3	•Use correct finger position when typing space bar, enter, shift key, period & comma	Type to Learn Jr./Type to Learn 4 Teacher Demonstration	Teacher Observation
8.1.(4)	A.9	•Use basic computer icons	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	B.1	Discuss uses of computers & different applications	Teacher Resources	Class Discussion

Warren Township Schools
Computer Science Curriculum
Second Grade

Basic Computer Skills & Tools/Software Applications				
Standards	Strands	Objectives	Resources	Assessment
		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(4)	A.4	•Create, close and print a document.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Open and save a document.		Teacher Observation/Hard Copy
8.1.(4)	A.4	•Identify and demonstrate functions of menu and/or button bar.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Identify and demonstrate functions of cursor.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Use shortcuts for common menu/button bar functions.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Type text using proper spacing.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Move the insertion point to insert text.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Select and delete text.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Cut, copy, and paste text.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Change the font, size, attribute, and color of text.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Indent paragraph with tab key.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Check document spelling.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Insert graphics.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Create objects or images using draw or paint tools/palettes.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Select and deselect objects.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Delete objects.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Move objects.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Resize and/or reshape objects.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Identify cells, rows and columns.	Scholastic Keys-MaxCount	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Enter text in cells.	Scholastic Keys-MaxCount	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Enter numeric data in cells.	Scholastic Keys-MaxCount	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Format cells (font, size, type).	Scholastic Keys-MaxCount	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Edit cells (insert, delete, change cell size, move, copy).	Scholastic Keys-MaxCount	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Create chart from data	Scholastic Keys-MaxCount	Teacher Observation/Hard Copy
8.1.(4)	A.6	•Open, save, and close a presentation.	Scholastic Keys-MaxShow	Teacher Observation
8.1.(4)	A.6	•Modify a presentation.	Scholastic Keys-MaxShow	Teacher Observation
8.1.(4)	A.6	•Preview and display a presentation.	Scholastic Keys-MaxShow	Teacher Observation
8.1.(4)	A.6	•Insert graphics into a presentation	Scholastic Keys-MaxShow	Teacher Observation
8.1.(4)	A.6	•Modify graphics (i.e. size, shape, etc.)	Scholastic Keys-MaxShow	Teacher Observation

**Warren Township Schools
Computer Science Curriculum
Second Grade**

Application of Productivity Tools/Social, Ethical & Human Issues				
Standards	Strands	Objectives	Resources	Assessment
NJCCCS		The learner will be able to: (with teacher demonstration and assistance)		
	<i>Social Aspects</i>			
8.1.(4)	B.2	Develop an awareness of proper etiquette while using the Internet.	CyberSafety Curriculum Teacher Resources	Class Discussion
8.1.(4)	B.2	Develop an awareness of personal security and safety issues while using the Internet.	CyberSafety Curriculum Teacher Resources	Class Discussion
8.1.(4)	B.2	Develop an understanding of Warren Township Schools' Acceptable Use Policy.	Warren Township Schools - Acceptable Use Policy	Signed User Policy Form. (If applicable.)
		NOTE: Use of the Internet should be done as a group lesson. Accessing and navigating the Internet is done primarily by the teacher.		

Warren Township Schools
Computer Science Curriculum
Third Grade

Basic Computer Skills & Tools/Basic Operations & Concepts				
Standards	Strands	Objectives	Resources	Assessment
NJCCCS		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(4)	A.1	•Use basic technology vocabulary	Teacher Resources	Teacher Observation
8.1.(4)	A.1	•Identify and explain function of Hard Drive.	Teacher Resources	Group Question and Answer
8.1.(4)	A.1	•Identify and demonstrate proper use of CD-ROM drive.	Teacher Resources	Group Question and Answer
8.1.(4)	A.1, 2	•Identify and demonstrate proper use of monitor.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1, 2	•Identify and demonstrate proper use of keyboard.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1, 2	•Identify and demonstrate proper use mouse.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1, 2	•Identify and demonstrate proper use of printer.	SMART Board/Lab Work Station	Teacher Observation/Hard Copy
8.1.(4)	A.1, 2	•Identify the CPU/Operating System of a computer	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.2	•Follow Start Up and Shut Down Procedures/Reboot	Lab Work Station	Turn computer on/off independently
8.1.(4)	A.3	•Use proper posture while practicing keyboarding.	Type to Learn 4	Teacher Observation
8.1.(4)	A.3	•Use correct finger position when typing alphabet keys, space bar, enter, shift key, period & comma	Type to Learn 4 Teacher Demonstration	Teacher Observation
8.1.(4)	A.3	• Demonstrate and practice proper keyboarding techniques by identifying/locating and using the command and function keys (Shift, Enter, Caps Lock, Delete, Tab,"Window", Escape).	Type to Learn 4	Teacher Observation
8.1.(4)	A.7	•Find and open specific files.	Various Software	Teacher Observation
8.1.(4)	A.7	•Name and save work to hard drive.	Various Software	Teacher Observation
8.1.(4)	A.7	•Delete Files.	Lab Work Station	Group Question and Answer
8.1.(4)	A.7	•Manage Folders.	Lab Work Station	Group Question and Answer
8.1.(4)	A.7	•Create, close and print a document	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.9	•Use basic computer icons	SMART Board/Lab Work Station	Teacher Observation

Warren Township Schools
Computer Science Curriculum
Third Grade

Basic Computer Skills & Tools/Software Applications				
Standards	Strands	Objectives	Resources	Assessment
		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(4)	A.4	•Identify and demonstrate functions of menu and/or button bar.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Scroll pages using scroll arrows and bars.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Use shortcuts for common menu/button bar functions.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Type text using proper spacing.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Move the insertion point to insert text.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Select and delete text.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Cut, copy, and paste text.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Change the font, size, attribute, and color of text.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Indent paragraphs with tab key.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Check document spelling.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Insert graphics.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Create objects or images using draw or paint tools/palettes.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Select and deselect objects.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Cut, Copy, Paste and Delete objects.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Move objects.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Arrange objects (i.e., align, flip, rotate)	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Resize and/or reshape objects.	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Format pictures/objects - Layout	MaxWrite/Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Identify cells, rows and columns.	MaxCount/Microsoft Excel	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Enter text in cells.	MaxCount/Microsoft Excel	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Enter numeric data in cells.	MaxCount/Microsoft Excel	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Format cells (font, size, type).	MaxCount/Microsoft Excel	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Edit cells (insert, delete, change cell size, move, copy).	MaxCount/Microsoft Excel	Teacher Observation/Hard Copy

Warren Township Schools
Computer Science Curriculum
Third Grade

Basic Computer Skills & Tools/Software Applications				
Standards	Strands	Objectives	Resources	Assessment
		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(4)	A.6	•Create, find, open, save, and close a presentation.	MaxShow/PowerPoint	Teacher Observation
8.1.(4)	A.6	•Preview and display a presentation.	MaxShow/PowerPoint	Teacher Observation
8.1.(4)	A.6	•Arrange and view presentation slides	MaxShow/PowerPoint	Teacher Observation
8.1.(4)	A.6	•Add a text box.	MaxShow/PowerPoint	Teacher Observation
8.1.(4)	A.6	•Choose font, size, and color of text.	MaxShow/PowerPoint	Teacher Observation
8.1.(4)	A.6	•Create a background.	MaxShow/PowerPoint	Teacher Observation
8.1.(4)	A.6	•Use paint/draw/stamp tools to create graphics	MaxShow/PowerPoint	Teacher Observation
8.1.(4)	A.6	•Modify graphics (i.e. size, shape, etc.)	MaxShow/PowerPoint	Teacher Observation
8.1.(4)	A.6	•Add transitions and animations.	MaxShow/PowerPoint	Teacher Observation
8.1.(4)	A.7	•Create, close and print a document.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.7	•Open and save a document.	Scholastic Keys	Teacher Observation/Hard Copy
8.1.(4)	A.8	•Navigate the graphics library	Kidspiration	Teacher Observation/Hard Copy
8.1.(4)	A.8	•Identify and demonstrate functions of menu and/or button bar.	Kidspiration	Teacher Observation/Hard Copy
8.1.(4)	A.8	•Organize information using the graphic organizer	Kidspiration	Teacher Observation/Hard Copy
8.1.(4)	A.8	•Use the "zoom" button to view document in various sizes	Kidspiration	Teacher Observation/Hard Copy

Warren Township Schools
Computer Science Curriculum
Third Grade

Application of Productivity Tools/Social, Ethical & Human Issues				
Standards	Strands	Objectives	Resources	Assessment
NJCCCS		The learner will be able to: (with teacher demonstration and assistance)		
	<i>Social Aspects</i>			
8.1.(4)	B.1	•Discuss the uses of a computer.	Teacher Resources/SMART Board Video Clips	Class discussion
8.1.(4)	B.1	•Discuss careers in technology.	Teacher Resources	Discussion
8.1.(4)	B.1	•Discuss the history of computers.	Teacher Resources	Discussion /Class work
8.1.(4)	B.2	•Discuss the ethics of using computers.	Teacher Resources	Discussion /Class work
8.1.(4)	B.2	•Develop an awareness of personal security and safety issues while using the Internet.	CyberSafety Curriculum/Teacher Resources	Class Discussion
8.1.(4)	B.2	•Understand basic Internet terminology	Teacher Resources	Assessment Tool
8.1.(4)	B.2	•Enter URL (Universal Resource Language).	Lab Work Station/Teacher Resources	Various Activities
8.1.(4)	B.2	•Use Page Navigation Tools.	Lab Work Station/Teacher Resources	Various Activities
8.1.(4)	B.2	•Use Hyperlinks.	Lab Work Station/Teacher Resources	Various Activities
8.1.(4)	B.2	•Develop an understanding of Warren Township Schools' Acceptable Use Policy.	Warren Township Schools - Acceptable Use Policy	Signed User Policy Form. (If applicable.)
8.1.(4)	B.3	•Use proper etiquette while using the Internet	CyberSafety Curriculum/Teacher Resources	Teacher Observation
		NOTE: Use of the Internet should be done as a group lesson.		
		Accessing and navigating the Internet is done primarily by the teacher.		

**Warren Township Schools
Computer Science Curriculum
Fourth Grade**

Basic Computer Skills & Tools/Basic Operations & Concepts				
Standards	Strands	Objectives	Resources	Assessment
NJCCCS		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(4)	A.1	•Use basic technology vocabulary	Teacher Resources/SMART Board	Teacher Observation
8.1.(4)	A.1	•Identify and explain function of Hard Drive.	Teacher Resources/SMART Board	Group Question and Answer
8.1.(4)	A.1	•Identify and demonstrate proper use of CD-ROM drive.	Teacher Resources/SMART Board	Group Question and Answer
8.1.(4)	A.1, 2	•Identify and demonstrate proper use of monitor.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1, 2	•Identify and demonstrate proper use of keyboard.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1, 2	•Identify and demonstrate proper use mouse.	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.1, 2	•Identify and demonstrate proper use of printer.	SMART Board/Lab Work Station	Teacher Observation/Hard Copy
8.1.(4)	A.1, 2	•Identify the CPU/Operating System of a computer	SMART Board/Lab Work Station	Teacher Observation
8.1.(4)	A.2	•Follow Start Up and Shut Down Procedures/Reboot	Lab Work Station	Turn computer on/off independently
8.1.(4)	A.2	•Save, find and open specific files.	Various Software	Teacher Observation
8.1.(4)	A.3	•Use proper posture while practicing keyboarding.	Type to Learn 4	Teacher Observation
8.1.(4)	A.3	• Demonstrate proper keyboarding techniques by using correct finger position when typing alphabet keys, space bar, enter, shift key, period & comma	Type to Learn 4 Teacher Demonstration	Teacher Observation Teacher Observation
8.1.(4)	A.7	•Find and open specific files.	Various Software	Teacher Observation
8.1.(4)	A.7	•Name and save work to hard drive.	Various Software	Teacher Observation
8.1.(4)	A.7	•Delete Files.	Lab Work Station	Group Question and Answer
8.1.(4)	A.7	•Manage Folders.	Lab Work Station	Group Question and Answer
8.1.(4)	A.9	•Use basic computer icons	SMART Board/Lab Work Station	Teacher Observation

Warren Township Schools
Computer Science Curriculum
Fourth Grade

Basic Computer Skills & Tools/Software Applications				
Standards	Strands	Objectives	Resources	Assessment
		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(4)	A.4	•Create, close and print a document.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Open and save a document.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Identify and demonstrate functions of menu and/or button bar.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Preview pages for printing by zooming in and out.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Scroll pages using scroll arrows and bars.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Use shortcuts for common menu/button bar functions.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Set page orientation (landscape or portrait).	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Type text using proper spacing.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Move the insertion point to insert text.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Select and delete text.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Cut, copy, and paste text.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Change the font, size, attributes, and color of text.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Set line & paragraph spacing.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Indent paragraphs.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Align paragraph text.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•End one paragraph and start another.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Check document spelling.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Insert graphics.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Create objects or images using draw or paint tools/palettes.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Select and deselect objects.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Cut, Copy, Paste and Delete objects.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Move objects.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Format/Arrange/Layout objects (i.e., align, flip, rotate)	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.4	•Resize and/or reshape objects.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Identify cells, rows and columns.	Microsoft Excel	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Enter text in cells.	Microsoft Excel	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Enter numeric data in cells.	Microsoft Excel	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Format cells (font, size, type).	Microsoft Excel	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Edit cells (insert, delete, change cell size, move, copy).	Microsoft Excel	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Practice navigation techniques within an existing spreadsheet	Microsoft Excel	Teacher Observation/Hard Copy
8.1.(4)	A.5	•Create charts to display results of data.	Microsoft Excel	Teacher Observation/Hard Copy

**Warren Township Schools
Computer Science Curriculum
Fourth Grade**

Basic Computer Skills & Tools/Software Applications				
Standards	Strands	Objectives	Resources	Assessment
		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(4)	A.6	•Create, find, open, save, and close a presentation.	Microsoft PowerPoint	Teacher Observation
8.1.(4)	A.6	•Preview and display a presentation.	Microsoft PowerPoint	Teacher Observation
8.1.(4)	A.6	•Arrange and view presentation slides	Microsoft PowerPoint	Teacher Observation
8.1.(4)	A.6	•Add/import text and adjust its appearance.	Microsoft PowerPoint	Teacher Observation
8.1.(4)	A.6	•Choose font, size, and color of text.	Microsoft PowerPoint	Teacher Observation
8.1.(4)	A.6	•Add a background.	Microsoft PowerPoint	Teacher Observation
8.1.(4)	A.6	•Use paint/draw tools to create graphics or enhance design elements.	Microsoft PowerPoint	Teacher Observation
8.1.(4)	A.6	•Import/Add graphics	Microsoft PowerPoint	Teacher Observation
8.1.(4)	A.6	•Modify graphics (i.e. size, shape, etc.)	Microsoft PowerPoint	Teacher Observation
8.1.(4)	A.6	•Add transitions and animations.	Microsoft PowerPoint	Teacher Observation
8.1.(4)	A.8	•Navigate the graphics library	Kidspiration	Teacher Observation/Hard Copy
8.1.(4)	A.8	•Identify and demonstrate functions of menu and/or button bar.	Kidspiration	Teacher Observation/Hard Copy
8.1.(4)	A.8	•Organize information using the graphic organizer	Kidspiration	Teacher Observation/Hard Copy
8.1.(4)	A.8	•Use the "zoom" button to view document in various sizes	Kidspiration	Teacher Observation/Hard Copy

**Warren Township Schools
Computer Science Curriculum
Fourth Grade**

Application of Productivity Tools/Social, Ethical & Human Issues				
Standards	Strands	Objectives	Resources	Assessment
NJCCCS		The learner will be able to: (with teacher demonstration and assistance)		
	<i>Social Aspects</i>			
8.1.(4)	B.1	•Discuss the uses of a computer as a tool.	Teacher Resources/SMART Board Video Clips	Class discussion
		•Discuss careers in technology.	Teacher Resources/SMART Board Video Clips	Discussion
		•Discuss the history of computers.	Teacher Resources/SMART Board Video Clips	Discussion /Class work
8.1.(4)	B.2	•Develop an awareness of personal security and safety issues while using the Internet.	CyberSafety/Teacher Resources	Class Discussion
8.1.(4)	B.2	•Recognize ethical and legal implications of plagiarism of copyrighted materials.	CyberSafety/Teacher Resources	Class Discussion
8.1.(4)	B.2	•Understand basic Internet terminology	Teacher Resources	Assessment Tool
8.1.(4)	B.2	•Use Page Navigation Tools.	Lab Work Station/Teacher Resources	Various Activities
8.1.(4)	B.2	•Use Hyperlinks.	Lab Work Station/Teacher Resources	Various Activities
8.1.(4)	B.2	•Save or Bookmark Favorites	Lab Work Station/Teacher Resources	Various Activities
8.1.(4)	B.2	•Select, Copy and Paste Graphics, Text and/or URL's	Lab Work Station/Teacher Resources	Various Activities
8.1.(4)	B.2	•Develop an understanding of Warren Township Schools' Acceptable Use Policy.	Warren Township Schools - Acceptable Use Policy	Signed User Policy Form. (If applicable.)
8.1.(4)	B.3	•Use proper etiquette while using the Internet NOTE: Use of the Internet should be done as a group lesson. Accessing and navigating the Internet is done primarily by the teacher.	i-Safe/Lab Work Station/Teacher Resources	Various Activities
	<i>Information Access & Research</i>			
8.1.(4)	B.7	•Locate information by searching a database	Scholastic Keys/MaxData	Teacher Observation

Warren Township Schools
Computer Science Curriculum
Fifth Grade

Basic Computer Skills & Tools/Basic Operations & Concepts				
Standards	Strands	Objectives	Resources	Assessment
NJCCCS		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(8)	A.1	•Use basic technology vocabulary	Teacher Resources	Teacher Observation
8.1.(8)	A.1	•Identify and explain function of Hard Drive.	Teacher Resources	Group Question and Answer
8.1.(8)	A.1	•Identify and demonstrate proper use of CD-ROM drive.	Teacher Resources	Group Question and Answer
8.1.(8)	A.1, 2	•Identify and demonstrate proper use of monitor.	SMART Board/Lab Work Station	Teacher Observation
8.1.(8)	A.1, 2	•Identify and demonstrate proper use of keyboard.	SMART Board/Lab Work Station	Teacher Observation
8.1.(8)	A.1, 2	•Identify and demonstrate proper use mouse.	SMART Board/Lab Work Station	Teacher Observation
8.1.(8)	A.1, 2	•Identify and demonstrate proper use of printer.	SMART Board/Lab Work Station	Teacher Observation/Hard Copy
8.1.(8)	A.1, 2	•Identify the CPU/Operating System of a computer	SMART Board/Lab Work Station	Teacher Observation
8.1.(8)	A.2	•Follow Start Up and Shut Down Procedures/Reboot	Lab Work Station	Turn computer on/off independently
8.1.(8)	A.2	•Save, find and open specific files.	Various Software	Teacher Observation
8.1.(8)	A.3	•Use proper posture while practicing keyboarding.	Type to Learn 4	Teacher Observation
8.1.(8)	A.3	• Demonstrate proper keyboarding techniques by	Type to Learn 4	Teacher Observation
		using correct finger position when typing alphabet keys,	Teacher Demonstration	Teacher Observation
		space bar, enter, shift key, period & comma		
8.1.(8)	A.3	• Demonstrate proper keyboarding techniques by	Type to Learn 4	Teacher Observation
		identifying/locating and using the command and function keys		
		(Caps Lock, Backspace, Delete, Tab,"Window", Escape).		
8.1.(8)	A.7	•Find and open specific files.	Various Software	Teacher Observation
8.1.(8)	A.7	•Name and save work to Hard Drive.	Various Software	Teacher Observation
8.1.(8)	A.7	•Delete Files.	Lab Work Station	Group Question and Answer
8.1.(8)	A.7	•Create and Manage Folders.	Lab Work Station	Group Question and Answer
8.1.(8)	A.9	•Use basic computer icons	SMART Board/Lab Work Station	Teacher Observation
8.1.(8)	A.10	•Identify and discuss proper use of a file server	SMART Board/Lab Work Station	Teacher Observation

Warren Township Schools
Computer Science Curriculum
Fifth Grade

Basic Computer Skills & Tools/Software Applications				
Standards	Strands	Objectives	Resources	Assessment
		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(8)	A.5	•Create, close and print a document.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Open and save a document.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Identify and demonstrate functions of menu and/or button bar.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Preview pages for printing by zooming in and out.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Scroll pages using scroll arrows and bars.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Use shortcuts for common menu/button bar functions.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Set page orientation. (printing)	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Set line & paragraph spacing.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Type text using proper spacing.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Move the insertion point to insert text.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Select and delete text.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Cut, copy, and paste text.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Change the font, size, attributes, and color of text.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Indent paragraphs.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Align paragraph text.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Create headers.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•End one paragraph and start another.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Check document spelling.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Insert graphics.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Create objects or images using draw or paint tools/palettes.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Select and deselect objects.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Cut, Copy, Paste, Duplicate and Delete objects.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Move objects.	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Format, Layout & Arrange objects (i.e., flip, rotate)	Microsoft Word	Teacher Observation/Hard Copy
8.1.(8)	A.5	•Resize and/or reshape objects.	Microsoft Word	Teacher Observation/Hard Copy

Warren Township Schools
Computer Science Curriculum
Fifth Grade

Basic Computer Skills & Tools/Software Applications				
Standards	Strands	Objectives	Resources	Assessment
		The learner will be able to:		
	<i>Basic Computer Skills & Tools</i>			
8.1.(8)	A.7	•Identify cells, rows and columns.	Microsoft Excel	Teacher Observation/Hard Copy
8.1.(8)	A.7	•Enter text in cells.	Microsoft Excel	Teacher Observation/Hard Copy
8.1.(8)	A.7	•Enter numeric data in cells.	Microsoft Excel	Teacher Observation/Hard Copy
8.1.(8)	A.7	•Format cells (font, size, type).	Microsoft Excel	Teacher Observation/Hard Copy
8.1.(8)	A.7	•Edit cells (insert, delete, change cell size, move, copy).	Microsoft Excel	Teacher Observation/Hard Copy
8.1.(8)	A.7	•Practice navigation techniques within an existing spreadsheet	Microsoft Excel	Teacher Observation/Hard Copy
8.1.(8)	A.7	•Create charts to display results of data.	Microsoft Excel	Teacher Observation/Hard Copy
8.1.(8)	A.8	•Create, find, open, save, and close a presentation.	Microsoft PowerPoint	Teacher Observation
8.1.(8)	A.8	•Preview and display a presentation.	Microsoft PowerPoint	Teacher Observation
8.1.(8)	A.8	•Identify and demonstrate functions of menu and/or button bar.	Microsoft PowerPoint	Teacher Observation/Hard Copy
8.1.(8)	A.8	•Identify and demonstrate functions of tool palettes	Microsoft PowerPoint	Teacher Observation/Hard Copy
8.1.(8)	A.8	•Arrange and view presentation slides	Microsoft PowerPoint	Teacher Observation
8.1.(8)	A.8	•Add/import text and adjust its appearance.	Microsoft PowerPoint	Teacher Observation
8.1.(8)	A.8	•Add a background.	Microsoft PowerPoint	Teacher Observation
8.1.(8)	A.8	•Use paint/draw tools to create graphics or enhance design elements.	Microsoft PowerPoint	Teacher Observation
8.1.(8)	A.8	•Import/Add graphics	Microsoft PowerPoint	Teacher Observation
8.1.(8)	A.8	•Modify graphics (i.e. size, shape, etc.)	Microsoft PowerPoint	Teacher Observation
8.1.(8)	A.8	•Add transitions and animations.	Microsoft PowerPoint	Teacher Observation
8.1.(8)	A.8	•Add sound effects	Microsoft PowerPoint	Teacher Observation
8.1.(8)	A.9	•Locate information by searching a database	Microsoft Access	Teacher Observation
			Internet Lesson	
			"Solar System Project"	

**Warren Township Schools
Computer Science Curriculum
Fifth Grade**

Application of Productivity Tools/Social, Ethical & Human Issues				
Standards	Strands	Objectives	Resources	Assessment
NJCCCS		The learner will be able to: (with teacher demonstration and assistance)		
	<i>Social Aspects</i>			
8.1.(8)	B.1	•Discuss the uses of a computer as a tool.	Teacher Resources/SMART Board Video Clips	Class discussion
8.1.(8)	B.1	•Discuss careers in technology.	Teacher Resources/SMART Board Video Clips	Discussion
8.1.(8)	B.1	•Discuss the history of computers.	Teacher Resources/SMART Board Video Clips	Discussion /Class work
8.1.(8)	B.2	•Discuss the correct ethics of computing.	Teacher Resources/SMART Board Video Clips	Discussion /Class work
8.1.(8)	B.2	•Develop an understanding of Warren Township Schools' Acceptable Use Policy.	Warren Township Schools - Acceptable Use Policy	Signed User Policy Form. (If applicable.)
8.1.(8)	B.2	•Recognize ethical and legal implications of plagiarism of copyrighted materials.	CyberSafety Curriculum/Teacher Resources	Class Discussion
8.1.(8)	B.2	•Develop an awareness of personal security and safety issues while using the Internet.	CyberSafety Curriculum/Teacher Resources	Class Discussion
8.1.(8)	B.5	•Understand basic Internet terminology	Teacher Resources	Assessment Tool
8.1.(8)	B.5	•Use Page Navigation Tools.	Lab Work Station/Teacher Resources	Various Activities
8.1.(8)	B.5	•Use Hyperlinks.	Lab Work Station/Teacher Resources	Various Activities
8.1.(8)	B.5	•Save or Bookmark Favorites	Lab Work Station/Teacher Resources	Various Activities
8.1.(8)	B.5	•Select, Copy and Paste Graphics, Text and/or URL's	Lab Work Station/Teacher Resources	Various Activities
8.1.(8)	B.3	•Use proper etiquette while using the Internet	i-Safe/Lab Work Station/Teacher Resources	Various Activities
		NOTE: Use of the Internet should be done as a group lesson.		
		Accessing and navigating the Internet is done primarily by the teacher.		

Warren Township Schools
 Computer Science Curriculum
 Objectives - Computer Literacy
 Grade 6 - Cycle

NJCCCS	OBJECTIVES	RESOURCES	ASSESSMENT
Technological Literacy			
	Computer Hardware		
8.1.8 A (2)	[R] Identify and demonstrate proper use of monitor/keyboard/mouse/printer/CPU & DVD/CD-Rom	Lab Work Station	Teacher Observation
8.1.8 A (4)	[M] Demonstrate proper use of Microphones and/or Digital Cameras	Lab Work Station	Teacher Observation
8.1.8 A (2)	[R] Identify and understand proper use of Scanner	Lab Scanner	Teacher Observation
8.1.8 A (10)	[R] Identify and demonstrate proper use of Network	Lab File Server	Teacher Observation
8.1.8 B (9)	[R] Identify basic hardware problems and demonstrate ability to solve common problems	Lab Equipment	Teacher Observation
	Operating Systems		
8.1.8 A (2, 6)	[R] Find, open,copy, delete, merge and save specific files	Lab Work Station	Teacher Observation
8.1.8 A (10)	[R] Name and save work to Network/Hard Drive	Lab Work Station	Teacher Observation
	Social Aspects of Technology		
8.1.8. B (1)	[R] Understand the impact of technology upon the workplace and society	Teacher Resources	Discussion /Teacher Resources
	Problem Solving and Decision Making		
8.1.8 B (8)	[R] Use computer applications to solve problems	Lab Resources	Teacher Observation
8.1.8 B (10)	[R] Use technology tools to solve problems	Lab Equipment	Teacher Observation

Warren Township Schools
 Computer Science Curriculum
 Objectives - Keyboarding
 Grade 6 - Cycle

NJCCCS	OBJECTIVES	RESOURCES	ASSESSMENT
Technological Literacy			
	The learner will be able to:		
8.1.8 A (3)	(R) Demonstrate effective input of text and data efficiently and accurately using various input device such as the mouse.	Microsoft Word	Instructor Observation
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by using proper posture.	Typing Instructor Keyboarding Software and/or Microsoft Word Teacher-Directed Practice As Appropriate	Typing Instructor tInstrument Viewed Electronically by Instructor & Student
8.1.8 A (3)	(R) Demonstrate proper techniques for wraparound keyboarding, by typing through two or more lines of text without using return key.		
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by using correct finger position when typing the space bar and home keys.		
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by using correct finger position when typing other alphabet keys.		
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by identifying/locating and using the punctuation keys.		
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by identifying/locating and using the command and function keys (shift, return, caps lock, delete, tab, control, escape)		
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by identifying/locating and using the number/character keys.		
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by identifying/locating and using numeric keypad.	↓	↓

Warren Township Schools
 Computer Science Curriculum
 Objectives - Internet Literacy
 Grade 6 - Cycle

NJCCCS	OBJECTIVES	RESOURCES	ASSESSMENT
Technological Literacy			
	The learner will be able to:		
8.1.8 B (1)	[R] Understand basic Internet terminology.	Teacher Resources	Various Activities
8.1.8 B (3)	[R] Understand and implement Acceptable Use Policy.	Warren Township Schools AUP (Acceptable Use Policy)	Signed User Policy Form.
8.1.8 B (6)	[R] Enter/Copy/Paste URLs (Uniform Resource Locators) and Hyperlinks	Lab Work Station/Teacher Resources	Various Activities
8.1.8 B (6)	[R] Use Page Navigation Tools.		
8.1.8 B (6)	[R] Save and Organize "Favorites".		
8.1.8 B (6)	[R] Use print options.		
8.1.8 B (6)	[R] Select/Copy/Paste Graphics /or Text.		
8.1.8 B (12)	[R] Create , organize and manipulate "shortcuts"		
8.1.8 B (10)	[R] Use network resources for storing and retrieving data.		
8.1.8 B (6)	[R] Use Search Engines, Online Databases, and Subject to locate information		
8.1.8 B (6)	Use History Folder.	↓	↓
8.1.8 B (4, 5)	Describe and practice safe Internet use and apply proper etiquette while using Internet and electronic mail.	Teacher Resources	Assessment Tool

Warren Township Schools
 Computer Science Curriculum
 Objectives - MS Word - Word Processing
 Grade 6 - Cycle

NJCCCS	Objectives	Resources	Assessment
Technological Literacy	The learner will be able to:		
	Manage Files & Windows		
8.1.8 A (2, 4, 5)	[R] Create, save, open, close, and print a document	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Identify and demonstrate functions of the title bar, menubar standard and formatting	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Identify and change page views	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Identify and demonstrate the function of the cursor	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] View and arrange windows	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Preview pages for printing	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Use buttons for common toolbar functions	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Demonstrate functions of tool palettes	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Use the ruler to navigate the cursor through the document	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Move between two or more programs through the taskbar	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Scroll pages using scroll arrows, scrollbars, and mouse wheel	Microsoft Word	Teacher Observation
	Set Up A Document		
8.1.8 A (2, 4, 5)	[R] Set margins	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Set page orientation	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Set page numbering	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Insert tables	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Set column width and row height	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Set line spacing	Microsoft Word	Hard Copy
	Work With Text		
8.1.8 A (2, 4, 5)	[R] Type text using proper spacing	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Move the insertion point to insert text	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Select and delete text	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Cut, copy, and paste text	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Change the font, size, attribute, and color of text	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Create a text box within a document	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] End one paragraph and start another	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Indent paragraphs	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Align text left, center, right and justified	Microsoft Word	Hard Copy

Warren Township Schools
 Computer Science Curriculum
 Objectives - MS Word - Word Processing
 Grade 6 - Cycle

	Work With Text		
8.1.8 A (2, 4, 5)	[R] Change line and paragraph spacing	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Set and change tab settings	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Create and change columns and sections	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Insert a page break	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Create headers and footers	Microsoft Word	Hard Copy
	Use Editing & Writing Tools		
8.1.8 A (2, 4, 5)	[R] Check document spelling	Microsoft Word	Hard Copy
	Work With Graphics, Objects and Frames		
8.1.8 A (2, 4, 5)	[R] Add a text and ClipArt	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Change appearance of text	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Insert and format graphics	Microsoft Word	Hard Copy
8.1.8 A (2, 4, 5)	[R] Cut, copy, paste, duplicate and delete objects	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Move objects	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Arrange objects (i e , group, align, flip, rotate, etc)	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Resize and/or reshape objects and AutoShapes	Microsoft Word	Teacher Observation
8.1.8 A (2, 4, 5)	[R] Wrap text around an object	Microsoft Word	Hard Copy

Warren Township Schools
 Computer Science Curriculum
 Objectives - MS Power Point - Presentation
 Grade 6 - Cycle

NJCCCS	Objectives	Resources	Assessment
Technological Literacy	The learner will be able to:		
	Managing Files & Windows		
8.1.8 A (2, 4, 5)	[I] Create, find, open, save, and close a presentation.	Microsoft PowerPoint	Teacher Observation
8.1.8 A (2, 4, 5)	[I] Preview and display a presentation.	Microsoft PowerPoint	Teacher Observation
8.1.8 A (2, 4, 5)	[I] Identify and demonstrate functions of the title bar, menubar standard	Microsoft PowerPoint	Teacher Observation
8.1.8 A (2, 4, 5)	[I] Identify and demonstrate functions of tool options.	Microsoft PowerPoint	Teacher Observation
8.1.8 A (2, 4, 5)	[I] View slides in a presentaion.	Microsoft PowerPoint	Teacher Observation
	Incorporating Word Processing Skills		
8.1.8 A (2, 4, 5)	[I] Import/add a text box.	Microsoft PowerPoint	Teacher Observation
8.1.8 A (2, 4, 5)	[I] Change font, size, attribute, and color of text.	Microsoft PowerPoint	Teacher Observation
8.1.8 A (2, 4, 5)	[I] Align text in left, right or center text in a presentation.	Microsoft PowerPoint	Teacher Observation
	Setting up a Presentation		
8.1.8 A (2, 4, 5)	[I] Insert a design template.	Microsoft PowerPoint	Teacher Observation
8.1.8 A (2, 4, 5)	[I] Select a page layout.	Microsoft PowerPoint	Teacher Observation
	Incorporating Desktop Publishing Skills		
8.1.8 A (2, 4, 5)	[I] Import/add a background.	Microsoft PowerPoint	Teacher Observation
8.1.8 A (2, 4, 5)	[I] Add a border.	Microsoft PowerPoint	Teacher Observation
8.1.8 A (2, 4, 5)	[I] Add/import text and adjust its appearance.	Microsoft PowerPoint	Teacher Observation
8.1.8 A (2, 4, 5)	[I] Recolor ClipArt	Microsoft PowerPoint	Teacher Observation
8.1.8 A (2, 4, 5)	[I] Import graphics.	Microsoft Power Point	Teacher Observation
8.1.8 A (2, 4, 5)	[I] Modify graphics (i.e. size, shape, etc.)	Microsoft Power Point	Teacher Observation

Warren Township Schools
Computer Science Curriculum
Objectives - MS Power Point - Presentation
Grade 6 - Cycle

	Incorporating Audio/Visual Effects		
8.1.8 A (2, 4, 5)	[1] Add buttons and/or transitions and select attributes, options, or actions	Microsoft Power Point	Teacher Observation
8.1.8 A (2, 4, 5)	[1] Add sound effects.	Microsoft Power Point	Teacher Observation
8.1.8 A (2, 4, 5)	[1] Insert video, mpeg, quicktime, or AVI.	Microsoft Power Point	Teacher Observation
8.1.8 A (2, 4, 5)	[1] Create a custom color scheme.	Microsoft Power Point	Teacher Observation
8.1.8 A (2, 4, 5)	[1] Add narration.	Microsoft Power Point	Teacher Observation
8.1.8 A (2, 4, 5)	[1] Add narration.	Microsoft Power Point	Teacher Observation

Warren Township Schools
 Computer Science Curriculum
 Objectives - Keyboarding
 Grade 7 - Cycle

NJCCCS	OBJECTIVES	RESOURCES	ASSESSMENT
Technological Literacy			
	The learner will be able to:		
8.1.8 A (3)	(R) Demonstrate effective input of text and data efficiently and accurately using various input device such as the mouse.	Microsoft Word	Instructor Observation
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by using proper posture.	Ultra Key Keyboarding Software and/or Microsoft Word Teacher-Directed Practice As Appropriate	Ultra Key Instrument Viewed Electronically by Instructor & Student
8.1.8 A (3)	(R) Demonstrate proper techniques for wraparound keyboarding, by typing through two or more lines of text without using return key.		
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by using correct finger position when typing the space bar and home keys.		
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by using correct finger position when typing other alphabet keys.		
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by identifying/locating and using the punctuation keys.		
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by identifying/locating and using the command and function keys (shift, return, caps lock, delete, tab, control, escape)		
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by identifying/locating and using the number/character keys.		
8.1.8 A (3)	(R) Demonstrate proper keyboarding techniques by identifying/locating and using numeric keypad.	↓	↓

Warren Township Schools
 Computer Science Curriculum
 Objectives - Computer Literacy
 Grade 7 - Cycle

NJCCCS	OBJECTIVES	RESOURCES	ASSESSMENT
Technological Literacy			
	Computer Hardware		
8.1.8 A (2)	[R] Identify and demonstrate proper use of monitor/keyboard/mouse/printer/CPU & DVD/CD-Rom	Lab Work Station	Teacher Observation
8.1.8 A (4)	[M] Demonstrate proper use of Microphones and/or Digital Cameras	Lab Work Station	Teacher Observation
8.1.8 A (2)	[R] Identify and understand proper use of Scanner	Lab Scanner	Teacher Observation
8.1.8 A (10)	[R] Identify and demonstrate proper use of Network	Lab File Server	Teacher Observation
8.1.8 B (9)	[R] Identify basic hardware problems and demonstrate ability to solve common problems	Lab Equipment	Teacher Observation
	Operating Systems		
8.1.8 A (2, 6)	[R] Find, open,copy, delete, merge and save specific files	Lab Work Station	Teacher Observation
8.1.8 A (10)	[R] Name and save work to Network/Hard Drive	Lab Work Station	Teacher Observation
	Social Aspects of Technology		
8.1.8. B (1)	[R] Understand the impact of technology upon the workplace and society	Teacher Resources	Discussion /Teacher Resources
	Problem Solving and Decision Making		
8.1.8 B (8)	[R] Use computer applications to solve problems	Lab Resources	Teacher Observation
8.1.8 B (10)	[R] Use technology tools to solve problems	Lab Equipment	Teacher Observation

Warren Township Schools
 Computer Science Curriculum
 Objectives - Internet Literacy
 Grade 7 - Cycle

NJCCCS	OBJECTIVES	RESOURCES	ASSESSMENT
Technological Literacy			
	The learner will be able to:		
8.1.8 (1)	[R] Understand basic Internet terminology.	Teacher Resources	Various Activities
8.1.8 (3)	[R] Understand and implement Acceptable Use Policy.	Warren Township Schools AUP (Acceptable Use	Signed User Policy Form.
8.1.8 (6)	[R] Enter/Copy/Paste URLs (Uniform Resource Locators) and Hyperlinks	Lab Work Station/Teacher Resources	Various Activities
8.1.8 (6)	[R] Use Page Navigation Tools.		
8.1.8 (6)	[R] Save and Organize "Favorites".		
8.1.8 (6)	[R] Use print options.		
8.1.8 (6)	[R] Select/Copy/Paste Graphics /or Text.		
8.1.8 (12)	[R] Create , organize and manipulate "shortcuts"		
8.1.8 (10)	[R] Use network resources for storing and retrieving data.		
8.1.8 (6)	[R] Use Search Engines, Online Databases, and Subject to locate information		
8.1.8 (6)	Use History Folder.	↓	↓
8.1.8 (4, 5)	Describe and practice safe Internet use and apply proper etiquette while using Internet and electronic mail.	Teacher Resources	Assessment Tool

Warren Township Schools
 Spreadsheet
 Objectives - MS Excel - Spreadsheet
 Grade 7 - Cycle

NJCCCS	OBJECTIVES	RESOURCES	ASSESSMENT
Technological Literacy	The learner will be able to:		
8.1.8 A (7)	(I) Identify cells, rows, columns and cell reference numbers.	Microsoft Excel & Class Generated Data	Various Assignments & Teacher Observation
8.1.8 A (7)	(I) Enter text in cells.		
8.1.8 A (7)	(I) Enter numeric data in cells.		
8.1.8 A (7)	(I) Format cells (font, size, type).		
8.1.8 A (7)	(I) Edit cells (insert, delete, change cell size, move, copy).		
8.1.8 A (7)	(I) Practice navigation techniques within an existing spreadsheet.		
8.1.8 A (7)	(I) Create charts to display results of data.		
8.1.8 A (7)	(I) Enter formulas using operators and cell reference numbers		
8.1.8 A (7)	(I) Enter formulas using functions. (SUM, AVERAGE, MIN, MAX, COUNT)		
8.1.8 A (7)	(I) Utilize print options to define print range.	↓	↓
8.1.8 A (10)	[R] Use network resources for storing and retrieving data	Lab Workstation, Server Access, Microsoft Excel & Class Generated Data	Various Assignments & Teacher Observation