

MIDDLE TOWNSHIP PUBLIC SCHOOL  
CAPE MAY COURT HOUSE, NJ 08210  
CURRICULUM GUIDE – 2009

**DISCIPLINE: Technology Literacy GRADE LEVEL: Grade 6**

Objective Code			Essential Questions	Content	Instructional Objectives/ Skills	Activities and Differentiated Instruction	Level I, R, or S	Resource Assessment Tool	Timeframe Taught
GR	Standard	Strand			Students should be able to:				
6	8.1.6	A.1	See 8.1.6.A.4 – A.12 8.1.6.B. 1-B.6	All	Use appropriate technology vocabulary.	Word Wall in Classroom Integrated into Hardware and Software, Word processing, Spreadsheets, Multimedia, Database, Internet Safety, Netiquette and Online Tools	R,S	Graphic organizers, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4 .5 weeks
6	8.1.6	A.2	See 8.1.6.A.4 – A.12 8.1.6.B. 1-B.6	All	Use common features of an operating system (e.g., creating and organizing files and folders).	Integrated into Hardware and Software, Word processing, Spreadsheets, Multimedia, Database, Internet Safety, Netiquette and Online Tools	R,S	Graphic organizers, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4 .5 weeks
6	8.1.6	A.3	See 8.1.6.A.4 – A.12 8.1.6.B. 1-B.6	All	Demonstrate effective input of text and data, using touch keyboarding with proper technique.	Integrated into Hardware and Software, Word processing, Spreadsheets, Multimedia, Database, Internet Safety, Netiquette and Online Tools	S	Graphic organizers, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4 .5 weeks
6	8.1.6	A.4	What is the difference between hardware and software?	Hardware and Software	Input and access data and text efficiently and accurately through proficient use of other input devices, such as the mouse.	Identify hardware devices Identify software. Classify hardware devices as input or output devices. Compare and contrast hardware and software how they are alike and how they are different.	S	Graphic organizers, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4 .5 weeks
6	8.1.6	A.5	How do we use the features of Microsoft Word to create documents?	Word Processing	Create documents with advanced text-formatting and graphics using word processing.	Organize their work from class into a computer folder. Select appropriate toolbar icons to format documents. Produce and format various documents. Create a three column brochure.	I,R,S	Graphic organizers, Software use, computer projects, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4 .5 weeks

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6	8.1.6	A.6	How do we use the features of Microsoft Word to create documents?	Word Processing	Create a file containing customized information by merging documents.	Organize their work from class into a computer folder. Select appropriate toolbar icons to format documents. Merge word documents into one document.	I,R,S	Graphic organizers, Software use, computer projects, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4 .5 weeks
6	8.1.6	A.7	How do we construct and interpret info in a spreadsheet?	Spreadsheet	Construct a simple spreadsheet, enter data, and interpret the information.	Organize their work from class into a computer folder. Select appropriate toolbar icons to format spreadsheet. Create a Snack Stand spreadsheet. Use formulas to add, subtract, multiply and divide. Use functions to find sum, mean, mode, average, min and max. Manipulate and analyze data in a spreadsheet. Convert data from a spreadsheet into a graph.	R, S	Graphic organizers, Software use, computer projects, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4 .5 weeks
6	8.1.6	A.8	How do we use the features of Microsoft PPT and PhotoStory to create a multimedia project or presentation?	Multimedia	Design and produce a basic multimedia project.	Organize their work from class into a computer folder. Select appropriate toolbar icons to format PPT presentations. Construct PPT presentations which include transitions, animations, sound and movies. Produce a PhotoStory project.	R, S	Graphic organizers, Software use, computer projects, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4 .5 weeks
6	8.1.6	A.9	How do we use and manipulate information in a database?	Database	Plan and create a simple database, define fields, input data, and produce a report using sort and query.	Organize their work from class into a computer folder. Select appropriate toolbar icons to format documents. Develop a class database. Manipulate data from class database.	R,S	Graphic organizers, Software use, computer projects, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4 .5 weeks

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6	8.1.6	A.10	What is the difference between hardware and software?	Hardware and Software	Use network resources for storing and retrieving data.	Use the Student share network to find and open appropriate documents. Use their own network space to save their work. Organize their work from class into a computer folder on the network.	R,S	Graphic organizers, Software use, computer projects, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4.5 weeks
6	8.1.6	A.11	See 8.1.6.A.4 – A.12 8.1.6.B. 1-B.6	All	Choose appropriate electronic graphic organizers to create, construct, or design a document	Integrated into Hardware and Software, Word processing, Spreadsheets, Multimedia, Database, Internet Safety, Netiquette and Online Tools	R,S	Graphic organizers, Software use, computer projects, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4.5 weeks
6	8.1.6	A.12	See 8.1.6.A.4 – A.12 8.1.6.B. 1-B.6	All	Create, organize and manipulate shortcuts.	Integrated into Hardware and Software, Word processing, Spreadsheets, Multimedia, Database, Internet Safety, Netiquette and Online Tools	R,S	Graphic organizers, Software use, computer projects, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4.5 weeks
6	8.2.6	A.1		N/A (Industrial Arts)	Describe the nature of technology and the consequences of technological activity.				
6	8.2.6	A.2		N/A (Industrial Arts)	Describe how components of a technological product, system, or environment interact.				

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6	8.2.6	A.3		N/A (Industrial Arts)	Describe how one technological innovation can be applied to solve another human problem that enhances human life or extends human capability.				
6	8.2.6	A.4		N/A (Industrial Arts)	Describe how technological activity has an affect on economic development, political actions, and cultural change.				
6	8.2.6	A.5		N/A (Industrial Arts)	Explain the cultural and societal effects resulting from the dramatic increases of knowledge and information available today.				
6	8.1.6	B.1	See 8.1.6.A.4 – A.12 8.1.6.B. 1-B.6	All (Industrial Arts)	Demonstrate an understanding of how changes in technology impact the workplace and society.	Integrated into Hardware and Software, Word processing, Spreadsheets, Multimedia, Database, Internet Safety, Netiquette and Online Tools	R,S	Graphic organizers, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4.5 weeks
6	8.1.6	B.2	What information is appropriate to share with others on the Internet? What are examples of good manners specific to email, chat and IM?	Internet Safety and Netiquette	Exhibit legal and ethical behaviors when using information and technology, and discuss consequences of misuse.	Formulate a list of Internet Safety rules. Distinguish between appropriate and inappropriate online behaviors. Decide which information is appropriate to share with others on the Internet. Identify emoticon and acronym. Construct a proper email message.	R,S	Graphic organizers, Software use, computer projects, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4.5 weeks

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6	8.1.6	B.3	What information is appropriate to share with others on the Internet? What are examples of good manners specific to email, chat and IM?	Internet Safety and Netiquette	Explain the purpose of an Acceptable Use Policy and the consequences of inappropriate use of technology.	Formulate a list of Internet Safety rules. Distinguish between appropriate and inappropriate online behaviors.	R,S	Graphic organizers, Software use, computer projects, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4 .5 weeks
6	8.1.6	B.4	What information is appropriate to share with others on the Internet?	Internet Safety	Describe and practice safe Internet usage.	Formulate a list of Internet Safety rules. Distinguish between appropriate and inappropriate online behaviors. Decide which information is appropriate to share with others on the Internet. Identify emoticon and acronym. Construct a proper email message.	R,S	Graphic organizers, Software use, computer projects, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4 .5 weeks
6	8.1.6	B.5	What are examples of good manners specific to email, chat and IM?	Netiquette	Describe and practice "etiquette" when using the Internet and electronic mail.	Formulate a list of Internet Safety rules. Distinguish between appropriate and inappropriate online behaviors. Decide which information is appropriate to share with others on the Internet. Identify emoticon and acronym. Construct a proper email message.	R,S	Graphic organizers, Software use, computer projects, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4 .5 weeks
6	8.1.6	B.6		N/A (Library)	Choose appropriate tools and information resources to support research and solve real world problems, including but not limited to: ♦ On-line resources and databases ♦ Search engines and subject directories				

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6	8.1.6	B.7		N/A (Library)	Evaluate the accuracy, relevance, and appropriateness of print and non-print electronic information sources.				
6	8.1.6	B.8	See 8.1.6.A.4 – A.12 8.1.6.B. 1-B.6	All	Use computer applications to modify information independently and/or collaboratively to solve problems.	Integrated into Hardware and Software, Word processing, Spreadsheets, Multimedia, Database, Internet Safety, Netiquette and Online Tools	R, S	Graphic organizers, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4.5 weeks
6	8.1.6	B.9	See 8.1.6.A.4 – A.12 8.1.6.B. 1-B.6	All	Identify basic hardware problems and demonstrate the ability to solve common problems.	Integrated into Hardware and Software, Word processing, Spreadsheets, Multimedia, Database, Internet Safety, Netiquette and Online Tools	R,S	Graphic organizers, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4.5 weeks
6	8.1.6	B.10	See 8.1.6.A.4 – A.12 8.1.6.B. 1-B.6	All	Determine when technology tools are appropriate to solve a problem and make a decision.	Integrated into Hardware and Software, Word processing, Spreadsheets, Multimedia, Database, Internet Safety, Netiquette and Online Tools	R, S	Graphic organizers, teacher observation, question and answer, summarizers, quiz, and/or test	½ marking period – 4.5 weeks
6	8.2.6	B.1		N/A (Industrial Arts)	Demonstrate and explain how the design process is not linear.				
6	8.2.6	B.2		N/A (Industrial Arts)	Use hands on activities to analyze products and systems to determine how the design process was applied to create the solution.				

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6	8.2.6	B.3		N/A (Industrial Arts)	Identify a technological problem and use the design process to create an appropriate solution.				
6	8.2.6	B.4		N/A (Industrial Arts)	Describe how variations in resources can affect solutions to a technological problem				
6	8.2.6	B.5		N/A (Industrial Arts)	Select and safely use appropriate tools and materials in analyzing, designing, modeling or making a technological product, system or environment.				
6	8.2.6	C.1		N/A (Industrial Arts)	Explain technological advances in medical, agricultural, energy and power, information and communication, transportation, manufacturing, and construction technologies				
6	8.2.6	C.2		N/A (Industrial Arts)	Explain reasons why human-designed systems, products, and environments need to be monitored, maintained, and improved to ensure safety, quality, cost efficiency, and sustainability.				

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6	8.2.6	C.3		N/A (Industrial Arts)	Explain the functions and interdependence of subsystems such as waste disposal, water purification, electrical, structural, safety, climatic control, and communication				