

Eighth Grade Computer Studies

Revised June 2009

COMPUTER STUDIES GRADE 8

Course Description:	The eighth grade computer studies course provides students with the opportunity to master essential technology skills and concepts that are part of the Northern York County School District K-12 Technology Competencies which in turn are based upon the Pennsylvania Academic Standards and the National Educational Technology Standards.
<i>Grade Level:</i>	8
Length of Course:	Frequency: 2 days per 6 day cycle Duration: 42 minutes Length: full year course
Prerequisites:	Completing 7 th grade
Textbook:	none
Expected Level of Achievement	Students will be required to maintain a 70% or better. They will be required to come to class prepared to learn. 93-100% = A 85 – 92% = B 77 – 84% = C 70 – 76% = D Below 70% = F

Northern York County School District Curriculum

Course Name:	Eighth Grade Computer Studies
Content:	Basic Computer Operations and Concepts
Key Learning(s):	Core Concept: Understanding/Using/Applying Basic Technology Skills
Essential Question(s):	How do we use technology to perform basic tasks?
Vocabulary:	No new vocabulary
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.7.C	Explain and demonstrate basic computer operations and concepts	Students manage and organize their server space:: <ul style="list-style-type: none"> • Create folders • Save to folders • Delete from folders 	Teacher inspection of student server space during the school year	The current network operating system (Novell) MS Windows operating system
3.7.7.C	Explain and demonstrate basic computer operations and concepts	Students will continue to identify, analyze, and solve basic hardware and software problems	Teacher observation of students and, if necessary, assistance in solving the problem	MS Windows operating system Computer software The current network operating system (Novell)

Northern York County School District Curriculum

Course Name:	Eighth Grade Computer Studies
Content:	Basic Computer Operations and Concepts
Key Learning(s):	Learn proper keyboarding skills
Essential Question(s):	How do we use proper keyboarding technique to type rapidly and accurately?
Vocabulary:	No new vocabulary
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.7.C	Explain and demonstrate basic computer operations and concepts	<p>Students practice proper touch-typing techniques</p> <ul style="list-style-type: none"> • Posture and hand positioning • Type Home Row keys • Type using Shift keys • Type keys not on the home row using proper finger (home key territories) 	Direct teacher observation of students while they are keyboarding	<p>Keyboarding programs</p> <p>Word processing software</p> <p>Timed writings</p>

Northern York County School District Curriculum

Course Name:	Eighth Grade Computer Studies
Content:	Basic Computer Operations and Concepts
Key Learning(s):	Learn proper keyboarding skills
Essential Question(s):	How do we use proper keyboarding technique to type rapidly and accurately?
Vocabulary:	No new vocabulary
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.7.C	Explain and demonstrate basic computer operations and concepts	Through guided practice students build greater keyboarding speed and accuracy in preparation for eighth grade keyboarding end of year test.	<p>Keyboarding speed and accuracy tests given using a keyboarding program; Timed writings</p> <p>Students must type at least 40 net words per minute in a 3 minute timed writing in the end of year test to be excused from taking keyboarding at the high school.. (**)</p> <p>** net words per minute is equal to gross words per minute minus number of words typed wrong and may be calculated by keyboarding practice software</p>	<p>Keyboarding programs</p> <p>Word processing software</p> <p>Timed writings</p>

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Course Name:	Eighth Grade Computer Studies
Content:	Social and Ethical Issues
Key Learning(s):	Social Issues
Essential Question(s):	How do we use technology alone or in collaboration with others in a safe and responsible way?
Vocabulary:	social networking; avatar; cyber harassment; credible threat
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
1.6.8.A	Listen to others	<p>Students work cooperatively and collaboratively with others when using technology</p> <ul style="list-style-type: none"> Assist other students who need help Share ideas on using computer software 	Teacher observation of students as they work independently or in groups using technology	Computer software
3.7.7.A	Describe the safe and appropriate use of tools, materials, and techniques to answer questions and solve problems	Students discuss and follow safe and responsible behaviors when using technology	Presentation, demonstration, discussion of safety issues Internet Safety Test	Guest presenter Internet Teacher handout

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Course Name:	Eighth Grade Computer Studies
Content:	Social and Ethical Issues
Key Learning(s):	Using technology in an ethical manner
Essential Question(s):	What is your legal rights and responsibilities when using technology resources?
Vocabulary:	Copyright; copyright symbol (©); public domain; fair use; copyright violation; infringement; attribution; form of notice; joint authors
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.7.A	Describe the safe and appropriate use of tools, materials, and techniques to answer questions and solve problems	Students will learn their legal rights and responsibilities when using technology resources.	Test on copyright	Internet sites Teacher handouts
3.7.7.A	Describe the safe and appropriate use of tools, materials, and techniques to answer questions and solve problems	Students adhere to copyright laws for all media, citing sources in an acceptable format.	Students projects will be examined for proper citing of sources.	Internet sites; MS Office Teacher handouts

Northern York County School District Curriculum

Course Name:	Eighth Grade Computer Studies
Content:	Productivity Tools
Key Learning(s):	Creating and using databases
Essential Question(s):	How are databases created and used to manage information?
Vocabulary:	Database; relational database; table; field; record; primary key; filter; query; datasheet view; form design view
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.7.D	Apply computer software to solve specific problems	Students will define appropriate database terms such as records and fields	Completion of Access mini-lessons Database Vocabulary Quiz	MS Access Teacher created quiz Teacher handout
3.7.7.D	Apply computer software to solve specific problems	Students will browse and navigate an existing database	Teacher observation of students as they work with existing databases	MS Access Existing databases Teacher handout
3.7.7.D	Apply computer software to solve specific problems	Students will search an existing database using filters and queries	Teacher observation of students as they work with existing databases	MS Access Existing databases Teacher handout
3.7.7.D	Apply computer software to solve specific problems	Students will create a database with multiple types of fields in a single layout or in multiple layouts	Teacher reviews student created database using a rubric	MS Access Teacher handout

Northern York County School District Curriculum

Course Name:	Eighth Grade Computer Studies
Content:	Productivity Tools
Key Learning(s):	Creating and using databases
Essential Question(s):	How are databases created and used to manage information?
Vocabulary:	Table design view; field properties; data types; wildcard characters; report design view
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.7.D	Apply computer software to solve specific problems	Students enter text and data into appropriate database fields and format the data to meet specific requirements	Teacher reviews student created database using a rubric	MS Access Teacher handout
3.7.7.D	Apply computer software to solve specific problems	Students sort, match, find and replace data in a database	Teacher observation of students as they work with existing databases	MS Access Teacher handout Existing databases
3.7.7.D	Apply computer software to solve specific problems	Students create different reports using database tools and wizards	Teacher reviews student created database reports using a rubric	MS Access Teacher handout

Northern York County School District Curriculum

Course Name:	Eighth Grade Computer Studies
Content:	Productivity Tools
Key Learning(s):	Creating and using databases
Essential Question(s):	How are databases created and used to manage information?
Vocabulary:	Report; report design view
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.7.D	Apply computer software to solve specific problems	Students will use print preview to adjust margins and check report appearance before printing	Teacher observation of students as they work with database reports Teacher reviews printouts of student formatted reports using a rubric	MS Access Existing databases Teacher handout
3.7.7.D	Apply computer software to solve specific problems	Students demonstrate what they have learned by creating a database to organize information based on specific criteria and/or taking a final quiz	Completion of Access project Final Quiz	MS Access Existing databases Teacher handouts Teacher created final quiz Internet

Northern York County School District Curriculum

Course Name:	Eighth Grade Computer Studies
Content:	Internet Applications
Key Learning(s):	Create a web page by writing HTML and/or using a WYSIWYG HTML Code generator
Essential Question(s):	How are web pages designed and created?
Vocabulary:	Web browser; XHTML; HTML; CSS (cascading style sheet).
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.10.E	Apply basic computer communication systems	Students learn the history of HTML and how it has changed over the years and what future trends in web page creation might be.	Quiz on HTML history and possible future trends.	PowerPoint Presentation Internet sites Browser programs Notepad; code generator Teacher handouts Teacher created quiz
3.7.10.E	Apply basic computer communication systems	Students will learn and understand basic HTML syntax (i.e. HTML tags, punctuation)	Teacher review of HTML documents created by students using a rubric	Internet sites Browser programs Notepad; code generator Teacher handouts

Northern York County School District Curriculum

Course Name:	Eight Grade Computer Studies
Content:	Internet Applications
Key Learning(s):	Create a web page by writing HTML and/or using a WYSIWYG HTML Code generator
Essential Question(s):	How are web pages designed and created ?
Vocabulary:	HTML file; text editor; file extensions (.html); structural tags (<html>...</html>, etc.); head tags (<h1>...</h1>, etc.); style tags (..., etc.); CSS tags (<style>...</style>, etc.); break tag (); paragraph tag (<p>...</p>)
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.10.E	Apply basic computer communication systems	Students learn to use a text editor to create a simple HTML file and view this file in a browser	Teacher review of HTML documents created by students using a rubric	Internet sites Browser programs Notepad; Teacher handouts
3.7.10.E	Apply basic computer communication systems	Students learn HTML and CSS tags for formatting text in a web page document	Teacher review of HTML documents created by students using a rubric	Internet sites Browser programs Notepad; Teacher handouts
3.7.10.E	Apply basic computer communication systems	Students learn HTML and CSS tags that assist in page formatting	Teacher review of HTML documents created by students using a rubric	Internet sites Browser programs Notepad; Teacher handouts

Northern York County School District Curriculum

Course Name:	Eight Grade Computer Studies
Content:	Internet Applications
Key Learning(s):	Create a web page by writing HTML and/or using a WYSIWYG HTML Code generator
Essential Question(s):	How are web pages designed and created ?
Vocabulary:	Ordered lists (...); unordered lists (...); list items (); Anchor tag for creating links (...link text...); web safe colors
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.10.E	Apply basic computer communication systems	Students learn HTML and CSS tags for creating different types of lists	Teacher review of HTML documents created by students using a rubric.	Internet sites Browser programs Notepad; Teacher handouts
3.7.10.E	Apply basic computer communication systems	Students learn HTML tags for creating different types of hyperlinks	Teacher review of HTML documents created by students using a rubric.	Internet sites Browser programs Notepad; Teacher handouts
3.7.10.E	Apply basic computer communication systems	Students learn CSS tags and attributes for adding background color and coloring text in a web page	Teacher review of HTML documents created by students using a rubric.	Internet sites Browser programs Notepad; Teacher handouts

Northern York County School District Curriculum

Course Name:	Eight Grade Computer Studies
Content:	Internet Applications
Key Learning(s):	Create a web page by writing HTML and/or using a WYSIWYG HTML Code generator
Essential Question(s):	How are web pages designed and created ?
Vocabulary:	Image tag ()
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.10.E	Apply basic computer communication systems	Students learn HTML tags for placing images in a web page	Teacher review of HTML documents created by students using a rubric	Internet sites Browser programs Notepad; Teacher handouts
3.7.10.E	Apply basic computer communication systems	Students demonstrate that they understand the fundamentals of creating a web page by writing HTML code to create a webpage project.	Web page project Final test on HTML can also be given	Internet sites Browser programs Notepad; code generator Teacher handouts Teacher created test

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Course Name:	Eight Grade Computer Studies
Content:	Multimedia/Presentation Tools
Key Learning(s):	Creating digital media using a movie editor to tell a story.
Essential Question(s):	How do we create a video to tell a story?
Vocabulary:	Filmmaking; post-production; storyboard; digital video; video file formats; video clip; combine clips; split clip; trim clip; title screen; audio clip; transition
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.7.D	Apply computer software to solve specific problems	Students examine the different elements of filmmaking. (development, pre-production, production, post-production)	Teacher reviews elements of filmmaking class work assignments completed by students using a checklist	Internet Websites United Streaming Teacher Handouts
3.7.7.D	Apply computer software to solve specific problems	Students will edit video to create a 3-5 minute movie to tell a story. The movie will include title frames, transitions, video segments with audio, and credits..	Quiz on filmmaking; Movie Maker project (includes creating a storyboard and using that storyboard to edit video in Moviemaker and eventually create a finished movie)	Windows MovieMaker Video files United Streaming Atomic Learning Teacher handouts

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Course Name:	Eight Grade Computer Studies
Content:	Technology Research Tools
Key Learning(s):	Effective technology research and evaluation.
Essential Question(s):	How can a better understanding of the Internet help you to use it more efficiently and effectively?
Vocabulary:	ARPANET; packet switching; URL (uniform resource locator); IP address; protocol; domain name; top level domain name; search engine; search directory; Meta-search engine;; Boolean searches; website evaluation criteria
Grade Level:	8

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.7.E	Explain basic computer communications systems	Students demonstrate a sound understanding of the nature and history of the Internet.	Quiz on the history of the Internet	Video on the “History of the Internet” Teacher handouts Teacher Quiz
3.7.7.E	Explain basic computer communication systems.	Students demonstrate a sound understanding of the structure of Internet URLs and how URLs uniquely identify individual websites, web pages, and files online.	Quiz/Class work assignment reviewed by teacher using a rubric	Internet resources Teacher Handouts
3.7.7.E	Explain basic computer communication systems.	Students evaluate the reliability of individual Internet websites.	Class work assignment reviewed by teacher using a checklist	Internet resources Teacher Handouts
3.7.7.E	Explain basic computer communication systems.	Students use/practice effective techniques to refine searches to gather appropriate information online.	Class work assignment reviewed by teacher using a checklist; Final Unit Test	Internet resources Teacher Handouts