

Board Approval Date: 08/22/2016

THE NORTHAMPTON AREA SCHOOL DISTRICT
PLANNED COURSE FORMAT: UBD UNIT PLAN FORM

Name of Course: Fun with Photoshop	Grade Level: 9-12
Name of Unit: Creating Tables in a Web Site, Creating an Image map	Unit Duration: 6 weeks

National Business Education Standards (NBEA)

NBEA Career Development Standard

Lifelong Learning

Achievement Standard: Relate the importance of lifelong learning to career success.

- Identify the knowledge, skills, and attitudes required to succeed in the current job/career, the next most likely job/career, and the ideal job/career.
- Identify future job and career trends associated with businesses in a chosen career cluster

NBEA Communication Standard

Foundations of Communication

Achievement Standard: Communicate in a clear, courteous and correct manner on personal and professional levels

- Participate in group discussions for problem resolution
- Organize and lead discussions
- Answer questions in formal and informal situations
- Read and follow simple directions

Technological Communication

Achievement Standard: Use technology to enhance the effectiveness of communication.

- Enhance documents through the use of advanced layout, design, and graphics production software and scanning hardware.

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NBEA Information Technology Standard**Impact on Society****Achievement Standard: Assess the impact of information technology on society.**

- Describe how new developments in information technology affect the supply/demand characteristics of the job market.

Application Software**Achievement Standard: Identify, evaluate, select install, use, upgrade, and customize application software; diagnose and solve computer problems resulting from an application software's installation and use.**

- Prepare documents that use a variety of media (e.g., images, text and sounds)
- Explore emerging application software
- Use application software reference materials (e.g., online help, vendor Web sites, tutorials, and manuals)
- Use the collaborative features of application software to complete simulated or real organization tasks
- Use advanced features of common application software
- Evaluate the effectiveness of software to solve problems

Information Technology Careers**Achievement Standard: Describe positions and career paths in information technology.**

- Identify positions and career paths in the field of information technology

Pennsylvania Academic Standards**Pennsylvania Academic Standards—Science and Technology and Environment and Ecology—Subject Area 3****PA 3.6 Technological Education****3.6.12.B:** Analyze knowledge of information technologies of processes encoding, transmitting, receiving, storing, retrieving and decoding.**PA 3.7 Technological Devices****3.7.10.C:** Apply basic computer operations and concepts.**3.7.10.D:** Utilize computer software to solve specific problems.**3.7.12.C:** Evaluate computer operations and concepts as to their effectiveness to solve specific problems.**3.7.12.D:** Evaluate the effectiveness of computer software to solve specific problems.**3.7.12E:** Assess the effectiveness of computer communications systems.

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PA 3.8 Science, Technology and Human Endeavors

3.8.12: Evaluate the consequences and impacts of scientific and technological solutions.

Pennsylvania Academic Standards—English—Reading, Writing, Speaking, and Listening—Subject Area 1

PA 1.1: Reading Independently

1.1.12.A: Apply appropriate strategies to construct meaning through interpretation and to analyze and evaluate author's use of techniques and elements of fiction and non-fiction for rhetorical and aesthetic purposes.

PA 1.5: Quality of Writing

1.5.12.A: Write with a clear **focus**, identifying topic, task, and audience.

1.5.12.B: Develop content appropriate for the topic.

1.5.12.D: Write with an understanding of **style** using a variety of sentence structures and descriptive word choices. Create **tone** and **voice** through the use of precise language.

1.5.12.E: Revise writing to improve style, word choice, sentence variety, and subtlety of meaning after rethinking how questions of purpose, audience, and **genre** have addressed.

1.5.12.F: Use grade appropriate **conventions of language** when writing and editing.

PA 1.6: Speaking and Listening

1.6.12.A: Listen critically and respond to others in small and large group situations.

1.6.12.B: Demonstrate awareness of audience using appropriate volume and clarity in formal presentations.

Overview of the Unit (description):

This unit will focus on getting started with the basics using HTML code to create websites. After this unit, students will have an understanding of HTML and will have learned the basics to using code to create and edit web pages. Students will also have gained knowledge in how to create web pages with links, images and formatted text. They will be able to create and customize tables and image maps.

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Enduring Understandings	Assessments Used to Show the Student's Enduring Understanding	Essential Content & Skills
<p><i>Specifically, what developed insight(s) and/or developed skills(s) must a student acquire to truly understand the topic? What one, two or three developed ideas should students remember years from now after forgetting the small details?</i></p> <p>Upon completion of this unit, students will be able to use HTML code to define table elements, describe the steps used to plan, design and code a table, and create borderless tables to position images. Using HTML, students will be able to create a borderless table to organize text, add background color to rows and cells, alter the spacing between and within cells using the cellpadding and cellspacing attributes, insert captions below tables and create headings that span rows and columns using the rowspan and colspan attributes.</p> <p>Students will also master using HTML to create an image map. They will define terms relating to image mapping, list the difference between server side and client side image maps, name the two components of an image map and describe the steps to implement an image map, and distinguish the between appropriate and</p>	<p><i>What assessments will be used to show acceptable evidence of the students' acquisition of the PDE/NBEA Standard and the enduring understanding(s)? Attach the summative assessment(s) and rubric(s) that assess(es) the students' different levels of understanding.</i></p> <p>Summative Assessment(s): Students will apply skills learned in chapters 4 and 5 in class discussions to create basic web sites using a notepad editor and HTML code.</p> <p>Formative Assessments:</p> <p>Projects:</p> <ul style="list-style-type: none"> • Chapter 4 and 5 Guided Practice • Chapter 4 and 5 Apply Your Knowledge • Chapter 4 and 5 Extend Your Knowledge • Chapter 4 and 5 Make it Right • Chapter 4 and 5 In the Lab 1 • Chapter 4 and 5 In the Lab 2 • Chapter 4 and 5 In the Lab 3 • Chapter 4 and 5 Cases and Places: Options 1-4 (students select one per chapter) 	<p><i>What specific concepts, information and skills are necessary for students to achieve true understanding and complete the summative unit assessment(s)? What materials must be meaningfully incorporated into the instruction?</i></p> <p>Concepts and Information:</p> <p>I. Creating Tables in a Web Site</p> <ul style="list-style-type: none"> • Creating Web pages with tables • Table elements • Table borders, headers, captions, and rules • Planning, designing and coding a table • Table tag attributes • Creating a home page with a borderless table • Creating a borderless table and inserting an image • Add text to table cells • Add cellpadding, cellspacing, and a caption • Spanning rows and columns • Create headings that span columns • Create headings that span rows <p>II. Create an Image Map</p> <ul style="list-style-type: none"> • Introduction to Image Maps

<p>inappropriate images for mapping. They will be able to sketch hotspots on an image, describe how the x and y coordinates relate to vertical and horizontal alignment, and use the MAP and AREA tags to code their own image maps.</p>	<p>Forums→Ongoing</p> <ul style="list-style-type: none"> • Technology • Current/best coding practices with HTML and CSS • Web Design • Web Design and it’s place in the Business World • Graphic Design • Graphic Design and it’s place in the Business World • Current/best coding practices with ActionScript • Animation based web site design • Flash and its role in mobile applications • Flash and its role in the gaming industry • Animation based design and advertisement and its role in the business world 	<ul style="list-style-type: none"> • Creating an Image Map • Server side vs. Client side image maps • Sketching borders of hotspots • Mapping image coordinates • Coding the map • Locating the x and y coordinates of an image <p>Materials:</p> <ul style="list-style-type: none"> • Microsoft Notepad • Computers • Projector • Textbook: HML; Comprehensive Concepts and Techniques • Data files to accompany textbook • Schoolology • Project Rubrics
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