

Web Design and Multimedia Productions: Grades 11, 12

Adopted 2007

Introduction to Multimedia

1.1 Define terminology

1. Prepare a list of terms with definitions 1.1.1
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1.2 Explain various ways of accessing the Internet

1. Identify types of browsers 1.2.1
 2. Identify search engines 1.2.2
 3. Describe search techniques 1.2.3
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1.3 Describe the basic components of a development system used for multimedia

1. Identify some of the equipment used 1.3.1
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1.4 Identify the laws and regulations affecting multimedia

1. Differentiate between freeware and shareware 1.4.1
 2. Explain fair use laws that apply to education multimedia productions 1.4.2
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1.5 Discuss file compression

1. Recognize why file compression is necessary when dealing with multimedia applications 1.5.1
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Graphic Editing

2.1 Define terminology

1. Prepare a list of terms with definitions 2.1.1
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2.2 Identify different text formats

1. Discuss fonts and font characteristics 2.2.1
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2.3 Identify various graphic formats

1. Explain graphic file formats:
 - bitmap
 - vector graphics
 - Gif
 - JPEG
 - others 2.3.1
2. Locate and obtain graphics from the Internet 2.3.2

2.4 Demonstrate use of hardware used for graphics and text

1. Scan an image and/or text [2.4.1](#)
 2. Take a picture using a digital camera and upload to your computer [2.4.2](#)
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2.5 List types of graphic software

1. Compare and contrast graphic software applications [2.5.1](#)
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2.6 Edit images using a graphic software

1. Demonstrate how to transform images: softwarecropscalerotateskewdistort [2.6.1](#)
 2. Apply color adjustments to a photo:brightnesscontrasthuesaturation [2.6.2](#)
 3. Demonstrate photographic manipulation:changing headschanging backgroundsliquefyingblurringretouchinglayeringopacityothers [2.6.3](#)
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Animation

3.1 Define terminology

1. Prepare a list of terms with definitions [3.1.1](#)
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3.2 List types of software used to create animations

1. Compare and contrast various animation create animations software [3.2.1](#)
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3.3 Demonstrate how to create an animation

1. Create an animation [3.3.1](#)
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Using Sound/Music

4.1 Define terminology

1. Prepare a list of terms with definitions [4.1.1](#)
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4.2 Describe different types of sound files

1. Locate and save a WAVE file from the sound files Internet [4.2.1](#)
 2. Find and save a MIDI file from the Internet [4.2.2](#)
 3. Use a ripper to extract music from a CD [4.2.3](#)
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4.3 Demonstrate use of hardware for sound

1. Use a microphone and save your waveform [4.3.1](#)
 2. Use speakers [4.3.2](#)
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4.4 Demonstrate how to manipulate a sound file

1. Edit a sound file [4.4.1](#)
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Video Editing

5.1 Define terminology

1. Prepare a list of terms with definitions [5.1.1](#)
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5.2 Describe the most commonly used file formats for video

1. Compare and contrast different video file formats [5.2.1](#)
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5.3 Describe sources for obtaining digital video

1. Locate and save a digital video from the Internet [5.3.1](#)
 2. Use a digital camcorder to create a video and upload to your computer [5.3.2](#)
 3. Use a video capture device to extract video from a VCR/DVD [5.3.3](#)
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5.4 List types of video editing software

1. Differentiate between types of video editing software [5.4.1](#)
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5.5 Edit video and sound using a video editing software

1. Add several video clips to a timeline [5.5.1](#)
 2. Add several sound clips to a timeline with fade in and outs between clips [5.5.2](#)
 3. Add special video effects:
 - [blur](#)
 - [crop](#)
 - [zoom](#)
 - [dissolve](#)
 - [slow motion](#)
 - [chroma keying](#)
 - [fade](#)
 - [others](#)[5.5.3](#)
 4. Add transitions between video clips [5.5.4](#)
 5. Split video/sound clips using software tools [5.5.5](#)
 6. Render a completed video [5.5.6](#)
 7. Export the timeline as a video file [5.5.7](#)
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Introduction to HTML, JavaScript, and Creating a Multimedia Web Site

6.1 Define terminology

1. Prepare a list of terms with definitions [6.1.1](#)
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6.2 Identify Web page design software

1. Explain features of various Web page design software [6.2.1](#)
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6.3 Discuss design considerations and planning steps in developing an effective Web site

1. Explain features considered when planning a Web site [6.3.1](#)
2. Evaluate Web sites for effectiveness [6.3.2](#)
3. Determine target audience [6.3.3](#)
4. Develop storyboard [6.3.4](#)
5. Edit storyboard [6.3.5](#)
6. Finalize storyboard [6.3.6](#)

6.4 Create a Web site using HTML

1. Create a Web site with components such as:
 - titlesbackground colors or imagesbackground soundscrolling marqueehorizontal ruled linegraphics and/or animated gifsappropriate text (changing fonts, colors, and sizes)hyperlink pages together with text and/or graphicstable with pertinent information and graphics 6.4.1

6.5 Add JavaScript special effects

1. Use a site with downloadable scripts to add to your Web site 6.5.1

6.6 Identify components of a Web site

1. Create a multipage Web site using site components such as:
 - themes/framesscrolling marqueespage transitionsthumbnailsalternative textpage captionstableshover/rollover buttonsformsimage map/hot spot 6.6.1

6.7 Add multimedia to your Web site

1. Insert sounds, video, graphics, and text to enhance your Web site 6.7.1

6.8 Identify methods of publishing a Web site

1. Demonstrate how to publish a Web site 6.8.1