Course Title: Graphics and Animation

Board Approval Date: 06/16/14

Credit / Hours: 0.5credit

Course Description:

Graphics and Animation focuses on mastery of the PA Academic Standards for Business, Computer and Information Technology, PA Academic Standards for Arts, as well as the PA Common Core Standards for reading, writing and presenting information. As students progress through Graphics and Animation, they will participate in a systematic study of graphics including both technological and creative aspects of graphical design development, basic principles of design, file format characteristics, photograph editing and manipulating tools and web graphic animation.

Graphics and Animation is an elective course that will explore current technological options available for creating, manipulating, designing and animating graphics. Specifically, students will explore design principles and create numerous projects from conception to completion.

Graphics and Animation incorporates creativity, design, and technology while promoting critical thinking and problem solving skills.

Learning Activities / Modes of Assessment:

Large group instruction Tests and Quizzes

Individual Note Taking Checklists / Teacher Observation
Software User Interface Multiple Projects with Rubrics

Reading assignments Writing assignments
Graphic Organizers Storyboard Layouts

Instructional Resources:

Adobe Photoshop CS6

Various instructional videos and educational websites

SumoPaint.com

Royalty Free Photo Sharing Web Sites

Royalty Free Music Sharing Web Sites

edmodo.com

Microsoft (MS) Word,

MS Excel,

MS PowerPoint,

MS Paint.

MS Publisher Software

Course Pacing Guide

Course: Graphics and Animation

Course Unit (Topic) Length of Instruction (Days/Periods)

1. Image Editing 45 days

2. Planning and Designing a Publication 10 days

3. Animation Creation <u>25 days</u>

DAYS TOTAL 80 Days

PENNSYLVANIA Date: May 12, 2014 ET

Curriculum: CCSD CURRICULUM

Course: Graphics and Animation (06/16/14)

Teacher/Team Name: Brenda Brewer

Topic: 1-Image Editing

Subject(s): Know: Days: 45 Grade(s):

Basic Image Creation

- -Pixels
- -Transparent
- -Opaque
- -Thumbnail

Characteristics of Clipart versus Photographs and Vector versus Bitmap images

-Image Editing Tools:

Transform, Adjustments, Filters, Layers

Advanced Photo Editing(using Adobe Photoshop: Industry Standard)

- -Color modes
- -Opacity
- -Tolerance
- -Palette
- -History
- -Layer

Photo Editing Tools:

Transform, Adjustments, Filters, Gradients

File Format Characteristics: BMP,GIF, JPG PSD, TIFF, PNG Lossy Compression Lossless Compression Understand: Do:

Image editing skills and advanced photo editing skills can enhance personal and professional projects.

15.4.12.K. - Unranked

Evaluate advanced multimedia work products and make recommendations based on the evaluation.

15.4.12.G. - Unranked

Create an advanced digital project using sophisticated design and appropriate software/applications.

15.4.12.A. - Unranked

Apply the creative and productive use of emerging technologies for educational and personal success.

15.4.12.L. - Unranked

Find and use primary documentation; employ an accepted protocol for citation.

15.4.12.M. - Unranked

Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field.

9.1.12.A - Essential

Know and use the elements and principles of each art form to create works in the arts and humanities.

Elements

Dance: energy/force, space, time Music: duration, intensity, pitch, timbre Theatre: scenario, script/text, set design Visual Arts: color, form/shape, line, space, texture, value

Principles

Dance: choreography, form, genre, improvisation, style, technique Music: composition, form, genre, harmony, rhythm, texture Theatre: balance, collaboration, discipline, emphasis, focus, intention, movement, rhythm, style, voice Visual Arts: balance, contrast, emphasis/focal point, movement/rhythm, proportion/scale, repetition, unity/harmony

Curriculum: CCSD CURRICULUM

Course: Graphics and Animation (06/16/14)

Teacher / Team Name: Brenda Brewer

PENNSYLVANIA Date: May 12, 2014 ET

Topic: 1-Image Editing

Subject(s):

Days: 45 Grade(s):

Know: Understand: Do: 9.1.12.B - Important Recognize, know, use and demonstrate a variety of appropriate arts elements and principles to produce, review and revise original works in the arts. · Dance: move, perform, read and notate dance, create and choreograph, improvise · Music: sing, play an instrument, read and notate music, compose and arrange, improvise Theatre: stage productions, read and write scripts, improvise, interpret a role, design sets, direct · Visual Arts: paint, draw, craft, sculpt, print, design for environment, communication, multimedia CCR.W.2 - Unranked Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content. 9-10.L.6 - Unranked Acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression. 9-10.S.4 - Unranked Present information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.

Course: Graphics and Animation (06/16/14)

Teacher / Team Name:

Brenda Brewer

PENNSYLVANIA Date: May 12, 2014 ET

Topic: 2 Planning and Designing a Publication Principles of design Do: Subject(s): Basic Principles of Grade(s): 15.4.12.G. - Unranked need to be considered Create an advanced digital project using sophisticated Design and incorporated in design and appropriate software/applications. planning and designing a Basic questions publication. designers need to answer 15.4.12.K. - Unranked when planning and Evaluate advanced multimedia work products and make recommendations based on the evaluation. designing a publication Types of formats 15.4.12.L. - Unranked available for use in Find and use primary documentation; employ an creating publication accepted protocol for citation. Software tools to create 15.4.12.A. - Unranked publications Apply the creative and productive use of emerging technologies for educational and personal success.

Course: Graphics and Animation (06/16/14)

Teacher / Team Name:

Brenda Brewer

PENNSYLVANIA Date: May 12, 2014 ET

r Know: Planning and Designing a Publication	Do:	5: 1 0
Subject(s):	9.1.12.A – Unranked Know and use the elements and principles of each art form to create works in the arts and humanities. • Elements Dance: energy/force, space, time Music: duration, intensity, pitch, timbre Theatre: scenario, script/text, set design Visual Arts: color, form/shape, line, space, texture, value • Principles Dance: choreography, form, genre, improvisation, style, technique Music: composition, form, genre, harmony, rhythm, texture Theatre: balance, collaboration, discipline, emphasis, focus, intention, movement, rhythm, style, voice Visual Arts: balance, contrast, emphasis/focal point, movement/ rhythm, proportion/scale, repetition, unity/harmony	- 1
	9.1.12.B – Essential Recognize, know, use and demonstrate a variety of appropriate arts elements and principles to produce, review and revise original works in the arts. Dance: move, perform, read and notate dance, create and choreograph, improvise Music: sing, play an instrument, read and notate music, compose and arrange, improvise Theatre: stage productions, read and write scripts, improvise, interpret a role, design sets, direct Visual Arts: paint, draw, craft, sculpt, print, design for environment, communication, multi-media CCR.W.2 – Unranked Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content.	
	CCR.S.1 – Unranked	

Curriculum: CCSD CURRICULUM

Course: Graphics and Animation (06/16/14)

Teacher / Team Name:

Brenda Brewer

PENNSYLVANIA Date: May 12, 2014 ET

Territary Trong and Designi	ng a Publication	Do:	Days:
Subject(s):		Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and persuasively.	Grade(s

PENNSYLVANIA Date: May 12, 2014 ET

Curriculum: CCSD CURRICULUM

Course: Graphics and Animation (06/16/14)

Teacher/Team Name: Brenda Brewer

Topic: 3-Animation Creation

Subject(s):

Days: 25 Grade(s):

Know:

How to optimize images and photos for the web

How to create a web animation in Photoshop

How to create a web animation in Flash

Images for the Web

Image Compression, JPEG, Screen Resolution, File Size, Download Time, ISP, Web Animation, Frame, Background Transparency, Progressive JPEG, RGB, GIF, PNG

Understand:

Images for the web must have a proper balance between image quality and download time.

3.4.12.D2. - Important

Do:

USING AND MAINTAINING TECHNOLOGICAL SYSTEMS - Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly.

15.4.12.G. - Unranked

Create an advanced digital project using sophisticated design and appropriate software/applications.

15.4.12.A. - Unranked

Apply the creative and productive use of emerging technologies for educational and personal success.

15.4.12.K. - Unranked

Evaluate advanced multimedia work products and make recommendations based on the evaluation.

1.a - Unranked

Apply existing knowledge to generate new ideas, products, or processes

1.b - Unranked

Create original works as a means of personal or group expression

4.b - Unranked

Plan and manage activities to develop a solution or complete a project