Randolph Township Schools Randolph High School

Intro to Computer Graphics Curriculum

"What a computer is to me is the most remarkable tool that we have ever come up with. It's the equivalent of a bicycle for our minds."

- Steve Jobs

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Randolph Township Schools Department of Social Studies Intro to Computer Graphics

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Randolph Township Schools

Mission Statement

We commit to inspiring and empowering all students in Randolph schools to reach their full potential as unique, responsible and educated members of a global society.

Randolph Township Schools Affirmative Action Statement

Equality and Equity in Curriculum

The Randolph Township School district ensures that the district's curriculum and instruction are aligned to the State's Standards. The curriculum addresses the elimination of discrimination and the achievement gap, as identified by underperforming school-level AYP reports for state assessment. The Curriculum provides equity in instruction, educational programs and provides all students the opportunity to interact positively with others regardless of race, creed, color, national origin, ancestry, age, marital status, affectional or sexual orientation, gender, religion, disability or socioeconomic status.

N.J.A.C. 6A:7-1.7(b): Section 504, Rehabilitation Act of 1973; N.J.S.A. 10:5; Title IX, Education Amendments of 1972

RANDOLPH TOWNSHIP BOARD OF EDUCATION EDUCATIONAL GOALS VALUES IN EDUCATION

The statements represent the beliefs and values regarding our educational system. Education is the key to self-actualization, which is realized through achievement and self-respect. We believe our entire system must not only represent these values, but also demonstrate them in all that we do as a school system.

We believe:

- The needs of the child come first
- Mutual respect and trust are the cornerstones of a learning community
- The learning community consists of students, educators, parents, administrators, educational support personnel, the community and Board of Education members
- A successful learning community communicates honestly and openly in a non-threatening environment
- Members of our learning community have different needs at different times. There is openness to the challenge of meeting those needs in professional and supportive ways
- Assessment of professionals (i.e., educators, administrators and educational support personnel) is a dynamic process that requires review and revision based on evolving research, practices and experiences
- Development of desired capabilities comes in stages and is achieved through hard work, reflection and ongoing growth

Randolph Township Schools Department of Fine Arts INTRO TO COMPUTER GRAPHICS

Introduction

Introduction to Computer Graphics

This semester class is geared towards the digital artist who is just starting out. Students will use the computer as a medium to explore technology as a form of creative expression. The basics of scanning, image adjustment and manipulation, file formats, digital photography, and web design will be explored. Emphasis will be placed on the elements and principles of art and design, along with history of computer graphics and its impact on the art world.

Curriculum Pacing Chart Intro to Computer Graphics

SUGGESTED TIME	UNIT NUMBER	CONTENT - UNIT OF STUDY
ALLOTMENT		
2 weeks	I	Elements & Principles of Art & Design/Color Theory
3 weeks	II	Computer Graphics Skills and Techniques
8-10 weeks	III	Art Production/Digital Imaging

Intro to Computer Graphics

UNIT I: Elements & Principles of Art & Design

ENDURING UNDERSTANDINGS	ients & Principles of Art		IONS
From cave painting to computer graphic imagery, changes in graphic design have been historically important towards the understanding of cultures.		What can be learned about human communication from the history of graphic design?	
The elements and principles of design encourage guidelines in the art making process.		Why will simply utilizing the design principles not necessarily result in an effective graphic design?	
Creative talent is imperative; expressing an idea visually is the primary role of a graphic designer.		 What are the common basic components of successful design? What qualities must a graphic designer have in order to be considered "highly effective" in his or her field? 	
KNOWLEDGE		SKILLS	CC/NJCCCS
Students will know:	Students will be able to	0:	1.1.12 A.1
			1.1.12 A.2
The elements and principles of art and design, as they are		success of the elements and principles	1.1.12 A.3
applied to the specific media being studied.	of art and design within	a composition.	1.1.12 A.4
The element of line years from size shape and colonies they	Define heavy the element	a of out and yeard to amount the main similar	1.1.12 B.1 1.1.12 B.2
The element of line, value, form, size, shape, and color as they refer to composition.	of design.	s of art are used to create the principles	1.1.12 B.2 1.1.12 C.1
Telef to composition.	of design.		1.1.12 C.1 1.1.12 C.2
The principles of balance, focal point, harmony, rhythm,	Define how the principle	es combine the elements to create an	1.1.12 C.2 1.1.12 C.3
contrast, and movement as they refers to composition.		deas that will produce a good design.	1.1.12 D.1
	parameter processing of the	acus mus mus produce a good design	1.1.12 D.2
Key vocabulary specific to graphic design, computers, and	Select inquiry tools app	ropriate to a given project.	1.2.12 A.1
programs implemented including but not limited to: <i>software</i> ,	1 7 11		1.2.12 A.2
platform, adobe creative suite, pixel, jpeg, resolution, and	Examine ways in which	people communicate through	1.3.12 D.1
vector.	technology and graphic	imagery.	1.3.12 D.2
			1.3.12 D.3
How to use value and contrast to create depth and movement			1.3.12 D.4
within the artwork.		gh the exploration and evaluation of art	
	in its historical context.		1.4.12 A.1

How the development of printing and other graphic design	Evaluate the piece of artwork through critiquing using written	1.4.12 A.2
forms have and continue to influence the development of soci-	and verbal communication.	1.4.12 A.3
ety.		1.4.12 A.4
		1.4.12 B.1
		1.4.12 B.2
		1.4.12 B.3

Curriculum Pacing Chart Intro to Computer Graphics UNIT I: Elements & Principles of Art & Design

SUGGESTED TIME ALLOTMENT	Elements & Principles of Art & Design/Color Theory	SUPPLEMENTAL UNIT RESOURCES
2-3 weeks	Unit I – Introduction to Elements and Principles of Art	Lecture and demonstration. Web sites, visuals, prints and
	and Design	videos. Visits to art museums and galleries.
	o Define and utilize the Elements of Art in introductory	A 1-1- Constitut Trans (2012) Province with all he amonting
	activities such as finding evidence of these in	Adobe Creative Team. (2013). Design with adobe creative
	photographic and digital imagery.	cloud classroom in a book: Basic projects using photoshop,
	 Define and utilize the Principles of Design in introductory activities such as finding evidence of 	indesign, muse, and more. (1st ed.). Adobe Press.
	these in photographic and digital imagery.	Gomez-Palcio, B. (2011). Graphic design, referenced.
	o Introduce Art History aesthetics that support	Rockport Publishers.
	Elements and Principles of Art and Design by	Rockport I donishers.
	viewing famous works of art and referencing	Lopez, L. (2006). Advanced adobe photoshop cs2 basics. (1st
	decisions made my renowned artists.	ed.). Cengage Learning.
	o Examples of these projects include student submitted	, , ,
	advertisements and photographs which include the	
	elements and principles as well as strong composition	
	and striking appearance, and student created designs	
	that illustrate the elements and principles for use as	
	computer graphic images.	

Intro to Computer Graphics
UNIT II: Computer Graphics Skills and Techniques

ENDURING UNDERSTANDINGS	ENDURING UNDERSTANDINGS ESSENTIAL QUESTIONS		IONS
Computers have become a viable creative medium for the artist.		 How has technology changed the creative process of the artist? What role does software have on graphic design? 	
There are a number of options for computer-related image input and output such as scanners, digital cameras, cell phones, and tablets.		 In what way does the use of different computer software skills and techniques determine the outcome of the work of art? What differences are evident in solving technological issues in the past 25 years? 	
Artists have discovered the versatility of digital imaging as a creative media. • Why is it important to fully under skills, techniques, and options a artist uses? • What careers are part of the grap		computer graphics	
KNOWLEDGE		SKILLS	CC/NJCCCS
Students will know:	Students will be able to):	1.1.12 A.1
Basic skills and techniques for operating a computer in the RHS computer graphics labs.			1.1.12 A.2 1.1.12 A.3 1.1.12 A.4 1.1.12 B.1
How to proficiently utilize the Adobe Photoshop program to adjust digital images.		rectly adjust size, resolution, contrast, al images in various projects.	1.1.12 B.2 1.1.12 C.1 1.1.12 C.2 1.1.12 C.3
Key vocabulary including but not limited to: <i>memory card</i> , downloading, cataloging files, contact sheet, exposure, film, 35mm slides.	Demonstrate a basic knowledge of the various file formats used in computer graphics and the advantages and disadvantages of each.		1.1.12 D.1 1.1.12 D.2 1.2.12 A.1
Graphic Design is a form of mass communication and has enhanced the display and delivery of images into our daily lifestyles.	Demonstrate the knowle backup options available	edge of the various image storage and	1.2.12 A.2 1.3.12 D.1 1.3.12 D.2 1.3.12 D.3 1.3.12 D.4

The development of Graphic Design has played an integral role	Use iPads, tablets, Apple TV, and other forms of new	1.3.12 D.5
in the advancement of technology.	technology for artwork creation in the computer graphics	1.4.12 A.1
	classroom.	1.4.12 A.2
The pros and cons to different types of camera usage and func-		1.4.12 A.3
tions for each.	Identify and correctly use the different parts of the digital	1.4.12 A.4
	camera.	1.4.12 B.1
		1.4.12 B.2
		1.4.12 B.3

Curriculum Pacing Chart Intro to Computer Graphics UNIT II: Computer Graphics Skills and Techniques

SUGGESTED TIME	Computer Graphics Skills and Techniques	SUPPLEMENTAL UNIT RESOURCES
ALLOTMENT	Computer Graphics Skins and Techniques	SUIT LEWENTAL UNIT RESOURCES
1 week	Unit II.1 – Computer Procedures	Lecture and demonstration. Web sites, visuals, prints and
	 Starting up computer 	videos. Visits to art museums and galleries.
	 Opening applications 	
	 Making folders 	Abduzeedo. (2013). Abduzeedo design inspiration. Retrieved
	o Saving files	from http://www.abduzeedo.com/
	o Backing-up files	
		Adobe Creative Team. (2013). Design with adobe creative
4-5 days	Unit II.2 – Scanning	cloud classroom in a book: Basic projects using photoshop,
	 Two-dimensional objects 	indesign, muse, and more. (1st ed.). Adobe Press.
	o Three dimensional objects	
	o Film	Adobe Systems Incorporated. (2013). <i>Adobe</i> . Retrieved from
	o 35mm slides	http://www.adobe.com/
3-4 days	Unit II.3 – Digital Camera	Gomez-Palcio, B. (2011). Graphic design, referenced. Rockport
	 Exposure settings 	Publishers.
	 Composition 	
	 Downloading files 	Gube, J. (2009). 35 basic tutorials to get you started with
		photoshop. Retrieved from http://sixrevisions.com/graphics-
1 day	Unit II.4 – Media Card Reader	design/35-basic-tutorials-to-get-you-started-with-photoshop/
	 Downloading images 	
	 Key wording/cataloging files 	Logic Arts Corporation. (2012). <i>Ideabook tutorials</i> . Retrieved
	o Deleting images	from http://www.ideabook.com/tutorials/
1 day	Unit II.5 – Downloading digital photographs	Lopez, L. (2006). Advanced adobe photoshop cs2 basics. (1st
·	 Downloading and saving of images 	ed.). Cengage Learning.
	Unit II (Dinital whate contact sheet	Champio D (2011) Chambing would be 90 about
	Unit II.6- Digital photo contact sheet	Sherwin, D. (2011). Creative workshop, 80 challenges to
	o Representing all photographs on contact sheet	sharpen your design skills. (1st ed.). HOW Books.

Intro to Computer Graphics

UNIT III: Art Production/Digital Imaging

ESSENTIAL QUESTIONS

ENDURING UNDERSTANDINGS

Graphics is a way of visually communicating design solutions is cise manner than other artistic mediums such as painting.	• What factors contribute to the ma advertisements being computer g	5 5	
Software is the creative tool that enables the computer graphic press visual ideas, parallel to that of the painter and their palette	e and brush. • How can the designs of an advert	 How does an artist develop a personal style? How can the designs of an advertisement, poster, or web page, impact its value as a communications tool? 	
Sensitivity of the visual impact of design principles is essential lutions.	 What does the process of critiquing the development of a work of art's How does the understanding work cultures contribute towards the branch artist's personal perspective? 	? ks of art from other	
KNOWLEDGE	SKILLS	CC/NJCCCS	
Students will know:	Students will be able to:	1.1.12 A.1	
Graphic design is a way of visually communicating design solutions.	Design and create works of art with an emphasis on graphic design and layout.	1.1.12 A.2 1.1.12 A.3 1.1.12 A.4 1.1.12 B.1	
How to manipulate software as the creative tool that enables the artist to create and express visual ideas.	Employ software to effectively illustrate subjects in a stylized and creative way.	1.1.12 B.2 1.1.12 C.1 1.1.12 C.2	
How to use a sketchbook as a diary of process, essential to the creation of art.	Implement step-by-step design process from brainstorm, rough sketch, rough, to final design.	1.1.12 C.3 1.1.12 D.1 1.1.12 D.2	
Key vocabulary including but not limited to: <i>layers, resolution, adjustment, levels, filters, contrast, transform, kerning, tracking, color balance.</i>	Use digital photography to effectively compose, expose, adjust, print, and manipulate photographs.		
How to give and use suggestions and new ideas in order to grow and mature as an artist.	Assess and critique individual work as well as the artwork of others in terms of effectiveness and overall success to the design problem.	1.3.12 D.2 1.3.12 D.3 1.3.12 D.4 1.3.12 D.5	

	1.4.12 A.1
	1.4.12 A.2
	1.4.12 A.3
	1.4.12 A.4
	1.4.12 B.1
	1.4.12 B.2
	1.4.12 B.3

Curriculum Pacing Chart Intro to Computer Graphics UNIT III: Art Production/Digital Imaging

SUGGESTED TIME ALLOTMENT	Art Production/Digital Imaging	SUPPLEMENTAL UNIT RESOURCES
2 weeks	Unit III.1 – Logo Design	Lecture and demonstration. Web sites, visuals, prints and
	 Use text and applications of typography to create a logo design. 	videos. Visits to art museums and galleries.
		Abduzeedo. (2013). Abduzeedo design inspiration. Retrieved
2 weeks	Unit III.2 – Positive/Negative Design	from http://www.abduzeedo.com/
	 Focus on composition in regards to positive and negative design aspects in an artwork. 	Adobe Creative Team. (2013). Design with adobe creative
	negative design aspects in an artwork.	cloud classroom in a book: Basic projects using photoshop,
1 week	Unit III.3 – Repetitive Design	indesign, muse, and more. (1st ed.). Adobe Press.
	o Focus on composition in regards to designs including	
	repetitive features.	Brackman, H. (1984). <i>The perfect portfolio</i> . Amphoto Books.
2 weeks	Unit III.4 – Caricature	Campbell, B. (1981). World photography. (1st ed.). Ziff-Davis
	o Focus on the self-portrait as it relates to computer	Books
	manipulation.	Gube, J. (2009). 35 basic tutorials to get you started with
2-3 weeks	Unit IV.5 – Image Combine	photoshop. Retrieved from http://sixrevisions.com/graphics-
	o Focus on techniques and skills learned to create a	design/35-basic-tutorials-to-get-you-started-with-photoshop/
	multiple image document.	London, B., Upton, J., & Stone, J. (2013). <i>Photography</i> . (11th
2 weeks	Unit V.6- Animation	ed.). Pearson.
	 Understand the process of moving images as it relates 	
	to extended areas of computer graphics.	Logic Arts Corporation. (2012). <i>Ideabook tutorials</i> . Retrieved
2 weeks	Unit VI.7-Cubist Image	from http://www.ideabook.com/tutorials/
- WOORD	Introduction of art history techniques and time	Youtube. (2010). Photoshop tutorial: Making text photo.
	periods as it relates to computer graphics.	Retrieved from
	TI A XIII O TII A A	http://www.youtube.com/watch?v=DCWloOrUm9E
3-4 weeks	Unit VII.8-Illustration	

 Introduction of illustration techniques for projects as it relates to computer graphics. 	Youtube: Sharif. (2011). <i>Photoshop watercolour effect tutorial</i> . Retrieved from
	http://www.youtube.com/watch?v=rvrLhCGvlGQ

Appendix A - Resources: Sample Rubric

Rubrics, Checklists, Self-assessment, Group critique, Reflective writing, Peer assessments, Portfolio evaluation, Sketchbooks, Journal entries, Presentations, Classroom participation, Quizzes and tests, Research papers.

Elements & Principles Project incomplete or complete but shows no evidence of understanding elements/principles, no planning Creativity & Originality Effort & Project inished with no evidence of experimentation Effort & Perseverance Project finished or completeds/sphysical help & solutions from others Craftsmanship & Skill Attitude & Responsibility Attitude & Responsibility Responsibility Project incomplete or or dunderstanding elements/principles, no planning Project finished but with trite imagery/solutions, no evidence of experimentation Project finished but trite imagery/solutions, no evidence of experimentation/originality Project finished with no evidence of experimentation/originality Project finished with minimum effort/met minimum requirements with no extra effort Project finished but solutions from others Project finished but shows it it le evidence of planning or understanding of elements/principles, evidence of experimentation, no evidence of experimentation original, problem solved logically Project finished with no evidence of planning or understanding of elements/principles, evidence of some planning Project finished but moved with total original, problem solved logically Project finished with no evidence of experimentation/originality after with total original, problem solved logically Project finished with no evidence of experimentation/originality after with total original, problem solved logically Project finished with and work but some details with hard work but some details with no extra effort with maximum effort, went well beyond requirements Skill Project finished but some details, minor flaws present logically assisted with preparation and cleanup Project finished with no extra effort with no extra effort with a complete or some planning Project finished with no evidence of experimentation/originality after with no extra effort with no extra effort with no extra effort with no ex	Skills	Criteria				Total Points
complete but shows no evidence of planning or understanding elements/principles, no planning Creativity & Project incomplete or Originality Effort & Project finished or experimentation Effort & Project finished or completed only after many prompts/ideals/physical help & solutions from others Craftsmanship & Skill Attitude & Responsibility Attitude & Responsibility Responsibility Cromplete but shows no evidence of planning or understanding elements/principles elements/principles effectively to create strong composition Project finished but with tritic imagery/solutions, no evidence of experimentation/originality Project finished with minimum effort/met minimum effort/met minimum requirements with no extra effort Project finished with no extra effort Skill Attitude & Student off task most of the time, didn't care for materials, sought ways to avoid work Project finished with and work but some details, minor flaws present Student did bare minimum Student worked enthusiastically, assisted with preparation and cleanup Student worked enthusiastically, assisted with preparation and cleanup Student worked enthusiastically toward group goals, mentored others needing help, mature behavior		6 or Less	7	8	9-10	
Effort & Project finished or completed only after many prompts/ideals/physical help & solutions from others Craftsmanship & Project finished with no attention to details, quickly thrown together Attitude & Responsibility Attitude & Re	_	complete but shows no evidence of understanding elements/principles, no planning Project incomplete or finished with no evidence of	shows little evidence of planning or understanding elements/principles Project finished but with trite imagery/solutions, no evidence of	adequate understanding of elements/principles, evidence of some planning Project finished but no completely original, problem	carefully, several preliminary sketches, used elements/principles effectively to create strong composition Project finished with total originality after	
Skill no attention to details, quickly thrown together Attitude & Student off task most of the time, didn't care for materials, sought ways to avoid work Attitude & Student off task most of the time, didn't care for materials, sought ways to avoid work Attitude & Student off task most of the time, didn't care for materials, sought ways to avoid work Attitude & Student worked enthusiastically, assisted with preparation and cleanup mentored others needing help, mature behavior		completed only after many prompts/ideals/physical help & solutions from others	minimum effort/met minimum requirements	with hard work but some details	Project finished with maximum effort, went well beyond	
Responsibility of the time, didn't care for materials, sought ways to avoid work enthusiastically, assisted with preparation and cleanup needing help, mature behavior		no attention to details, quickly thrown	-	with most details,	beautifully/carefully	
Teacher Comments:		of the time, didn't care for materials, sought		enthusiastically, assisted with preparation and cleanup	enthusiastically toward group goals, mentored others needing help,	
			Teacher Comme	nts:		

Appendix B - Resources: Sample Handout

Elements and Principles of Art and Design

THESE DEFINITIONS BRING SUCCESS TO ANY PIECE OF ARTWORK

Composition--An orderly arrangement of elements using the principles of design. The principles of design help you to carefully plan and organize the elements of art so that you will hold interest and command attention. This is sometimes referred to as visual impact. In any work of art there is a thought process for the arrangement and use of the elements of design. The artist who works with the principles of good composition will create a more interesting piece of art it will be arranged to show a pleasing rhythm and movement. The center of interest will be strong and the viewers will not look away, instead, they will be drawn into the work. A good knowledge of composition is essential in producing good artwork. Some artists today like to bend or ignore these rules and therefore are experimenting with different forms of expression. We think that composition is very important. The following will assist you in understanding the basics of a good composition:

Elements Of Art

Line - is a mark on a surface that describes a shape or outline. It can create texture and can be thick and thin. Types of line can include actual, implied, vertical, horizontal, diagonal and contour lines.

Color - refers to specific hues and has 3 properties, Chroma, Intensity, and Value. The color wheel is a way of showing the chromatic scale in a circle using all the colors made with the primary triad. Complimentary pairs can produce dull and neutral color. Black and white can be added to produce tints (add white), shades (add black) and tones (add gray).

Texture - is about surface quality either tactile or visual. Texture can be real or implied by different uses of media. It is the degree of roughness or smoothness in objects.

Shape - is a 2-dimensional line with no form or thickness. Shapes are flat and can be grouped into two categories, geometric and organic.

Form - is a 3-dimensional object having volume and thickness. It is the illusion of a 3-D effect that can be implied with the use of light and shading techniques. Form can be viewed from many angles.

Value - is the degree of light and dark in a design. It is the contrast between black and white and all the tones in between. Value can be used with color as well as black and white. Contrast is the extreme changes between values.

Size - refers to variations in the proportions of objects, lines or shapes. There is a variation of sizes in objects either real or imagined.

These elements are used to create the Principles of Design. Principles are the results of using the Elements. When you are working in a particular format (size and shape of the work surface) the principles are used to create interest, harmony and unity to the elements that you are using. You can use the Principles of design to check your composition to see if it has good structure.

Elements and Principles of Art and Design (cont'd)

Principles of Compositional Design

The principles of design are the recipe for a good work of art. The principles combine the elements to create an aesthetic placement of things that will produce a good design.

Center of interest - is an area that first attracts attention in a composition. This area is more important when compared to the other objects or elements in a composition. This can be by contrast of values, more colors, and placement in the format.

Balance - is a feeling of visual equality in shape, form, value, color, etc. Balance can be symmetrical or evenly balanced or asymmetrical and unevenly balanced. Objects, values, colors, textures, shapes, forms, etc., can be used in creating a balance in a composition.

Harmony - brings together a composition with similar units. If your composition was using wavy lines and organic shapes you would stay with those types of lines and not put in just one geometric shape. (Notice how similar Harmony is to Unity - some sources list both terms)

Contrast - offers some change in value creating a visual discord in a composition. Contrast shows the difference between shapes and can be used as a background to bring objects out and forward in a design. It can also be used to create an area of emphasis.

Directional Movement - is a visual flow through the composition. It can be the suggestion of motion in a design as you move from object to object by way of placement and position. Directional movement can be created with a value pattern. It is with the placement of dark and light areas that you can move your attention through the format.

Rhythm - is a movement in which some elements recurs regularly. Like a dance it will have a flow of objects that will seem to be like the beat of music.

The Principles of Design are the *RESULTS* of your working with the Elements of Art. Use them in every piece of art you do and you will be happy with the results.

Appendix B - Resources: Sample Handout

Connecting & Scanning

How to connect to the scanner:

- On the top bar click "Go"
- Select "Network"
- Go into the folder "My Network"
- Select "HSArtB133FilmScanner" or "HSArtB133MacScanner"
- Click "connect"

Username: student Password: art

• Select "Student" and click OK

How to scan an image:

• Log onto computer using:

Username: student Password: art

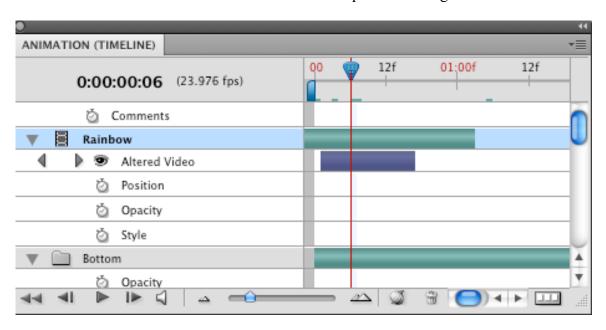
- •Turn the scanner on!
- Open Photoshop on the scanner computer
- Select file IMPORT EPSON SCANNER
- Preview your image before scanning
- Click Scan Image and save your image to the correct folder. (Drop Box-Fogas-Scans)
- Close out of everything and go back to your computer
- Connect to the scanner computer and drag your image file to your folder

Appendix B - Resources: Sample Handout

Animation Project Helpful Hints

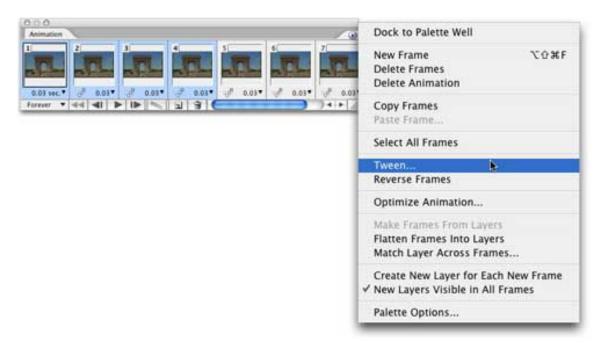
To pull up the animation toolbar choose WINDOW>ANIMATION

To Select the FRAMES MENU > Select the three Squares to change the view to the Frames Mode. See below.



To TWEEN from one slide to another> Select the Four Circles Icon or Right Click and Choose TWEEN. Make sure your layers are selected as well as the next frame. See below.

Animation Project Helpful Hints (cont'd)



Other Helpful Hints:

GROUP your layers together to create selections so you do not get confused.

DO NOT use Apple T or transform to change the size or positions of text; you MUST create a NEW LAYER.

Be sure to save your document as .PSD until you are ready to save your animation as .GIF. You can do this by going to SAVE FOR WEB AND DEVICES > GIF.

Tween in between motions to create a flow for your image. Do this for changing backgrounds as well.

Make sure you DO NOT duplicate slides prior to moving them. If you work slide by slide like your animation will build upon itself correctly.

Appendix-C Resources: Sample Lesson Plan

Visual and Performing Arts Lesson Plan

Teacher: Kelly Fogas Subject: Computer Graphics

Date: September-October Unit: Scanning/Collage

Enduring Understandings/Objective:

- 1. Use the different elements of art and principles of design to strengthen a layout.
- 2. Demonstrate knowledge of planning and designing a multimedia project.
- 3. Understand and use the application Photoshop and its filters to alter scanned images.

NJCCCS Addressed: (check all that apply)

- (X) Standard1.1 The Creative Process: All students will demonstrate an understanding of the elements and principles that govern the creation of works of art in dance, music, theatre, and visual art.
- (X) Standard 1.2 History of the Arts and Culture: All students will understand the role, development, and influence of the arts throughout history and across cultures.
- (X) Standard 1.3 Performing: All students will synthesize skills, media, methods, and technologies that are appropriate to creating, performing, and/or presenting works of art in dance, music, theatre, and visual art.
- (X) Standard 1.4 Aesthetic Responses & Critique Methodologies: All students will demonstrate and apply an understanding of arts philosophies, judgment, and analysis to works of art in dance, music, theatre, and visual art.

Essential Questions:

1. How can the use of different computer software skills and techniques determine the outcome of the work of art?

- 2. What role does software have on graphic design?
- 3. What techniques have the computer graphic artists used in a work of art?

Materials:

Mac Computers, media card readers, flatbed scanner, film scanner, color ink jet printer, inkjet paper, digital camera, memory cards, mat board, mat knives, Adobe Creative Suite.

Vocabulary:

Scanning-The process of translating photographs into a digital form that can be recognized by a computer.

Layers-Layers are like transparencies stacked one on top of one another. Each layer can have different images and effects. When the layers are stacked, the images appear as if they are all a single image.

Layer Styles-Layer styles are special effects that can be applied to an entire layer overall. Layer styles include a variety of lighting effects, textures and overlays.

Brightness/Contrast-Photoshop allows you to adjust the brightness and contrast of your image. If an image is too light or too dark, you can use the brightness and contrast controls to improve the picture.

Procedure/Learning Experiences:

- 1. Demonstration-Students will view how to scan 2-D and 3-D objects. Students must bring in at least 5 different objects with texture. Examples will be shown of previous student work. (1 Days)
- 2. Setup-Students will begin to scan their own objects, as well as connect to their computer to start using the objects. At this stage students will begin learning how to use multiple layers in Photoshop. (2-3 Days)
- 3. Study-Students will start creating thumbnail versions of their images, adjusting contrast, color, and filters. (2 Days)
- 4. Process-Students will choose one final thumbnail to explore as a larger 8 x 10 version. Students must have a minimum of 5 different textures and 3 different color overlays. (3 Days)
- 5. Critique-Students will submit artwork to the teacher via the scanner. All artwork will be shown over the LCD projector. Students will participate in a verbal critique. (1 Day)

<u>Differentiation</u>: (check all that apply)

- (X) Process
- (X) Content
- (X) Product

Assessment: (list types utilized)

- 1. Students will be given a participation grade during critique.
- Students will be given points for bringing in multiple objects with texture.
 Students will be graded using a rubric for their final project.

Appendix-C Resources: Sample Lesson Plan

Visual and Performing Arts Lesson Plan

Teacher: Kelly Fogas Subject: Computer Graphics

Date: October Unit: Digital Portraits

Enduring Understandings/Objective:

1. Use the different elements of art and principles of design to strengthen a layout.

- 2. Demonstrate knowledge of planning and designing a multimedia project.
- 3. Understand and use the application Photoshop and its filters to alter scanned images.

NJCCCS Addressed: (check all that apply)

- (X) Standard1.1 The Creative Process: All students will demonstrate an understanding of the elements and principles that govern the creation of works of art in dance, music, theatre, and visual art.
- (X) Standard 1.2 History of the Arts and Culture: All students will understand the role, development, and influence of the arts throughout history and across cultures.
- (X) Standard 1.3 Performing: All students will synthesize skills, media, methods, and technologies that are appropriate to creating, performing, and/or presenting works of art in dance, music, theatre, and visual art.
- (X) Standard 1.4 Aesthetic Responses & Critique Methodologies: All students will demonstrate and apply an understanding of arts philosophies, judgment, and analysis to works of art in dance, music, theatre, and visual art.

Essential Questions:

1. How can the use of different computer software skills and techniques determine the outcome of the work of art?

- 2. What role does software have on graphic design?
- 3. What techniques have the computer graphic artists used in a work of art?

Materials:

Mac Computers, media card readers, flatbed scanner, film scanner, color ink jet printer, inkjet paper, digital camera, memory cards, mat board, mat knives, Adobe Creative Suite.

Vocabulary:

Scanning-The process of translating photographs into a digital form that can be recognized by a computer.

Layers-Layers are like transparencies stacked one on top of one another. Each layer can have different images and effects. When the layers are stacked, the images appear as if they are all a single image.

Liquify-There are many sub tools under the liquify application. These are used to bloat, pucker, mirror, and distort facial features to create a caricature.

Caricature-a portrait that exaggerates or distorts the essence of a person or thing to create an easily identifiable visual likeness. The portrait uses exaggeration and oversimplification of features.

Art History Implication:

David Levine (December 20, 1926 – December 29, 2009) was an American artist and illustrator best known for his caricatures in The New York Review of Books. He has been often called "the greatest caricaturist of the last half of the 20th Century".

Procedure/Learning Experiences:

- 1. Demonstration-Students will learn how to take digital pictures during class. They will set up the umbrellas and photography equipment. (1 Days)
- 2. Setup-Each student will take a turn posing for 4 pictures of their faces as well as taking pictures. The students will have their own artwork to complete as well as the experience of taking the pictures. (2-3 Days)
- 3. Study-Students will start creating thumbnail versions of their images, adjusting contrast, shadows, highlights, and color. (2 Days)
- 4. Process-Students will complete 3 caricature portraits of themselves. They will submit their best caricature for grading. (5 Days)

5. Critique-Students will submit artwork to the teacher via the scanner. All artwork will be shown over the LCD projector. Students will participate in a verbal critique. (1 Day)

<u>Differentiation</u>: (check all that apply)

(X) Process

(X) Content

(X) Product

Assessment: (list types utilized)

- 1. Students will be given a participation grade during critique.
- 2. Students will be given points for bringing in multiple objects with texture.
- 3. Students will be graded using a rubric for their final project.

Appendix-D Resources: Sample Sources

Software

Adobe Creative Suite 3,4, & 6 (Photoshop, Bridge, InDesign, DreamWeaver, Illustrator, Flash, Acrobat) iPhoto, iPads, Apple TVs, Projector, iTunes, GarageBand, QuickTime, Microsoft Word, Safari, Firefox

Abduzeedo. (2013). Abduzeedo design inspiration. Retrieved from http://www.abduzeedo.com/

Adobe Creative Team. (2013). Design with adobe creative cloud classroom in a book: Basic projects using photoshop, indesign, muse, and more. (1st ed.). Adobe Press.

Adobe Systems Incorporated. (2013). Adobe. Retrieved from http://www.adobe.com/

Brackman, H. (1984). The perfect portfolio . Amphoto Books.

Campbell, B. (1981). World photography. (1st ed.). Ziff-Davis Books

FolioHD. (2011). Online portfolio. Retrieved from http://foliohd.com

Gomez-Palcio, B. (2011). Graphic design, referenced. Rockport Publishers.

Gube, J. (2009). 35 basic tutorials to get you started with photoshop. Retrieved from http://sixrevisions.com/graphics-design/35-basic-tutorials-to-get-you-started-with-photoshop/

London, B., Upton, J., & Stone, J. (2013). Photography. (11th ed.). Pearson.

Lopez, L. (2006). Advanced adobe photoshop cs2 basics. (1st ed.). Cengage Learning.

PhotoshopCafe. (2013). Photoshop cafe: The ultimate in photoshop training. Retrieved from http://photoshopcafe.com/

Sherwin, D. (2011). Creative workshop, 80 challenges to sharpen your design skills. (1st ed.). HOW Books.

Logic Arts Corporation. (2012). *Ideabook tutorials*. Retrieved from http://www.ideabook.com/tutorials/

Youtube. (2010). Photoshop tutorial: Making text photo. Retrieved from http://www.youtube.com/watch?v=DCWloOrUm9E

Youtube: Sharif. (2011). Photoshop watercolour effect tutorial. Retrieved from http://www.youtube.com/watch?v=rvrLhCGvlGQ