

Manhattan Center for Science and Math High School

Mathematics Department Curriculum

Content/Discipline Multimedia (Graphics communication)

tzs101.blogspot.com

Marking Period 1

Topic and Essential Question

How do we communicate through graphics? Using Multimedia

What is Multimedia? Multimedia – text, graphics, video/ movies

How do we make the media for graphic communication? Using Programs like Powerpoints, Publisher, Photoshop, Illustrator and Sketch up

Unit/Topics Unit #1 - Introduction to Multimedia and how to create them using different computer software.

SWBAT/Objectives Content ("Know"):

How to use computer software like Microsoft Publisher, Power Points, and Adobe Photoshop to create Multimedia projects.

Skills ("Do"):

Assignment 1 - 2 days

Making a **Business card** using *Microsoft Publisher* templates.

Adding text and graphics / photo to a business card and saving the file in different formats

Assignment 2 – what is Multimedia Essay – 1 day

Using *Microsoft Words* type the following essay

- (1) What is multimedia to you? (2) Provide some samples (3) Careers and future that uses multimedia.
- (2) Students will be archive their assignments in Microsoft PowerPoints

Assignment 3 to 10 - 25 days

- (3) Students will be able to learn the basic function of Photoshop, applying filters.
- (4) Concept s of Layering with multiple pictures in different layers
- (5) Creating shapes and coloring
- (6) Gradient tools
- (7) Glass text effect via layer properties
- (8) Photo in text via clipping mask
- (9) Plastic text effect via layer properties and contours.
- (10) Crazy text effect manipulating the outlines of text to create "new" text shapes and adding different effect in the shapes.

Vocabulary/Key Terms	Computer software: Publisher, templates, Powerpoints, slides, layers, filters, shapes, gradients, buckets, color selection, path, marquees, clipping mask, channels, Photoshop
Assessments:	 Assignment Classwork Lesson Summary Daily progress submitted via email Tests Archive of work in Powerpoint slides
Common Core Standards:	F.IF.7, F.LE.1, F.LE.2, F.LE.3, F.LE.4, F.IF.8 Common Core Standards for Math Practices: •MP1: Make sense of problems and persevere in solving them. •MP2: Reason abstractly and quantitatively. •MP3: Construct viable arguments and critique the reasoning of others. •MP4: Model with mathematics •MP5: Use appropriate tools strategically •MP6- Attend to precision
Differentiated Instruction:	 Flexible grouping Cooperative Learning Visual Learning – SMART Board, White board Visual and interactive questions using the Smart board Students have an option to view additional videos, tutorials, interactive practice problems online through the class website, tzs101.blogspot.com
ELLs:	 Students with ELL's will watch videos (the video has English and Spanish both versions) and additional tutorials about the lesson through the class website. Students are allowed extra time for works and assessments

Preview the Key Terms to give students access to context.

SWDs:

Assign chapter summary to give less proficient readers access to content.

	 Have gifted students assist students that are not as gifted. Ask students to take on leadership roles when working in groups.
Resources/Books	Websites: tutoribalboard.net

Homework: Per Teacher



Manhattan Center for Science and Math High School

Mathematics Department Curriculum

Content/Discipline Multimedia (Graphics communication)

tzs101.blogspot.com

Marking Period 2

Topic and Essential Question

More graphics manipulation with Photoshop

Creating from scratch using Adobe illustrator (2d shapes)

Unit/Topics Unit #2 – Continue with Photoshop with creation of Flyer and Poster

Unit #3 - Introduction to Adobe Illustrator

SWBAT/Objectives Content ("Know"):

How to use computer software like Adobe Photoshop, and Adobe Illustrator to create Multimedia projects.

Skills ("Do"):

Change over to online blogging with their Gmail – Google's Blogger

Assignment 11 - 2 days

Making a **Flyer** using *Photoshop*.

Adding text and graphics / photo to a club fair flyer.

Assignment 12 - 1 day

Adding texture via layers

Assignment 13 to 20 - 27 days

- 13- healthy choice poster change one thing campaign
- 14- displacement map with Flag "painted" on the brick wall
- 15 "painting" on the face using the displacement map techniques
- 16 Smart object altering part of the filter applied on the background picture.
- 17- another way to select an area to Photoshop masking
- 18- Combining smart object and masking to alter the filter for soft skin.
- 19- Introduction to Adobe Illustrator creating a "USB thumb drive" basic shapes.
- 20- creating a wireless phone with Illustrator (test)

Vocabulary/Key Computer software: Photoshop layers, filters, shapes, gradients, buckets, color selection, path, marquees, clipping mask,

Terms	channels, Illustrator, color stops, layer order
Assessments:	 Assignment Classwork Lesson Summary Daily progress submitted via email Tests Archive of work in Powerpoint slides
Common Core Standards:	F.IF.7, F.LE.1, F.LE.2, F.LE.3, F.LE.4, F.IF.8 Common Core Standards for Math Practices: •MP1: Make sense of problems and persevere in solving them. •MP2: Reason abstractly and quantitatively. •MP3: Construct viable arguments and critique the reasoning of others. •MP4: Model with mathematics •MP5: Use appropriate tools strategically •MP6- Attend to precision
Differentiated Instruction:	 Flexible grouping Cooperative Learning Visual Learning – SMART Board, White board Visual and interactive questions using the Smart board Students have an option to view additional videos, tutorials, interactive practice problems online through the class website, tzs101.blogspot.com
ELLs:	 Students with ELL's will watch videos (the video has English and Spanish both versions) and additional tutorials about the lesson through the class website. Students are allowed extra time for works and assessments
SWDs:	 Preview the Key Terms to give students access to context. Assign chapter summary to give less proficient readers access to content. Have gifted students assist students that are not as gifted.

High-Achievers:	❖ Ask students to take on leadership roles when working in groups.	
Resources/Books	Websites: http://www.tutoribalboard.net , http://designstacks.net/ ,	



Manhattan Center for Science and Math High School

Mathematics Department Curriculum

Content/Discipline Multimedia (Graphics communication)

tzs101.blogspot.com

Marking Period 3

Topic and Essential Question

3d modeling with Sketch Up

Review of Photoshop and Publisher

Unit/Topics Unit #4 – Introduction to Google Sketch Up (3d modeling)

Unit #5 – back to Photoshop for animation
Unit #6 – Creating a brochure with Publisher

SWBAT/Objectives Content ("Know"):

How to use computer software like Sketch Up, Adobe Photoshop, and Publisher to create Multimedia projects.

Skills ("Do"):

Continue to archive assignments via online blogging with their Gmail – Google's Blogger

Assignment 21 - 2 days

Introduction to Sketch up – 2d shapes, 3d objects and creating basics letters for student's name (2d to 3d)

Assignment 22 - 15 days

Basic 12 blocks with precise measurement. And coloring. Quiz to follow...

Assignment 23 - 3 days

Creating a house with details like windows and door

Assignment 24 -1 day

Back to Photoshop – separating channels to create a 3d picture effect. (3d glasses used to view final work).

Assignment 25 - 3 days

Animation – creating frames to animate.

Assignment 26 - 3 days

Creating a showcase – test of all the Photoshop skilled learned in this semester

Assignment 27 - 3 days

Brochure created with Publisher – students' fall semester schedule.

Vocabulary/Key Terms

Computer software: Photoshop layers, filters, shapes, gradients, buckets, color selection, path, marquees, clipping mask, channels, Illustrator, color stops, layer order

Assessments:

- Assignment
- Classwork
- Lesson Summary
- Daily progress submitted via email
- Tests
- Archive of work on online Blogger.com

Common Core Standards:

F.IF.7, F.LE.1, F.LE.2, F.LE.3, F.LE.4, F.IF.8

Common Core Standards for Math Practices:

- •MP1: Make sense of problems and persevere in solving them.
- •MP2: Reason abstractly and quantitatively.
- •MP3: Construct viable arguments and critique the reasoning of others.
- •MP4: Model with mathematics
- •MP5: Use appropriate tools strategically
- •MP6- Attend to precision

Differentiated Instruction:

- Flexible grouping
- Cooperative Learning
- Visual Learning SMART Board, White board
- Visual and interactive questions using the Smart board
- Students have an option to view additional videos, tutorials, interactive practice problems online through the class website, tzs101.blogspot.com
- Students with ELL's will watch videos (the video has English and Spanish both versions) and additional tutorials about the lesson

	through the class website.
	Students are allowed extra time for works and assessments
ELLs:	
	 Preview the Key Terms to give students access to context.
	 Assign chapter summary to give less proficient readers access to content.
SWDs:	
	Have gifted students assist students that are not as gifted.
*** 1 4 1 *	❖ Ask students to take on leadership roles when working in groups.
High-Achievers:	
Resources/Books	Websites: http://www.photoshop-plus.co.uk/ and Drafting text book for the 3d blocks