

## **TECHNOLOGY-12/13**

### **SECONDARY UNIT 1 (S01)**

(Basic Image Manipulation)  
(July 2017)

**Unit Statement:** The student will be introduced to the basic principles of photographic composition. The student will take their own photos and make decisions to select the photos most favorable for editing. The student will then edit photos for optimal color harmony, composition, and contrast. The student will learn proper techniques to adjust file size for intended purpose (e.g., fine quality photograph, snapshot, insertion into document, web page and e-mail).

**Essential Outcomes:** (must be assessed for mastery)

1. **The Student Will** critique each other's work based on compositional form and contrast.
2. **TSW** take photos using the principles of composition (e.g., the rule of thirds and contrast).
3. **TSW** demonstrate the use of layers, selection tools, and paths.
4. **TSW** demonstrate or document a work flow procedure for processing pictures that includes the use of Levels, Curves, Sharpening, Cropping and Resizing for the appropriate final use.
5. **TSW** describe a method of cataloging photographs for easy retrieval that includes a system for backup.
6. **TSW** save files in correct size and format which reflects readiness for fine quality printing, document placement, web page and or e-mail use.

**Suggested Materials:**

**Software:**

Adobe Photoshop CS6

GIMP - <https://www.gimp.org/>

**Hardware:**

DSLR, Digital Cameras, Tablets, Mobile Devices, sentinels, media cards, and card readers.

**Suggested Assessment Tools & Strategies are attached:**

1. Students will be given the same set of specific images to use to practice specific tasks, such as image straightening/ cropping. Students will complete a series of tutorials to demonstrate a basic level of proficiency using the software tools provided.
2. The student will take photographs at a given location with a specific assignment in mind (e.g., Park pics). shooting a person, a close-up, a plant. Then they will use their photographs to create a series of 6 pictures that exemplify the given topic. They will use principles and concepts taught to create a picture package. Other students and the teacher will evaluate and review classmates' projects.
3. Students will select a pre-approved topic, take photographs and then create a composite image using a least 6 of their photographs and no more than 3 other images (e.g., Web graphics). Projects will be presented to the class.

**Additional Resources:**

<http://digital-photography-school.com> – Photography tutorials

<https://www.photoshopcreative.co.uk> - Photoshop tutorials

Destiny Webpath Express (found on QSI schools Library site) use this search engine to find age-appropriate websites that align with this unit.

*ASSESSMENT RUBRICS FOUND ON FOLLOWING PAGES.....*

**Assessment Rubric – S01 – Basic Image Manipulation**

**Student Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**To receive a ‘B’ the student must show ‘B’ level mastery on ALL Essential Outcomes. (TSW’s)  
To receive an ‘A’, the student must show ‘A’ level mastery on all available and ‘B’ level mastery on all remaining TSW’s.**

<b>TSW</b>	<b>‘A’ Level Mastery</b>	<b>‘B’ Level Mastery</b>	<b>‘P’ Comments</b>
1. <b>The Student Will</b> critique each other's work based on compositional form and contrast.	critique each other's work based on the elements of art and design of the quality of the compositional form and contrast.	critique each other's work based on technical analysis of the quality of the compositional form and contrast.	
2. <b>TSW</b> take photos using the principles of composition (e.g., the rule of thirds and contrast).		take photos using the principles of composition (e.g., the rule of thirds and contrast).	
3. <b>TSW</b> demonstrate the use of layers, selection tools, and paths.		demonstrate the use of layers, selection tools, and paths.	
4. <b>TSW</b> demonstrate or document a work flow procedure for processing pictures that includes the use of Levels, Curves, Sharpening, Cropping and Resizing for the appropriate final use.	Consistently demonstrate a high level of ability when processing pictures.	demonstrate or document a work flow procedure for processing pictures that includes the use of Levels, Curves, Sharpening, Cropping and Resizing for the appropriate final use.	
5. <b>TSW</b> describe a method of cataloging photographs for easy retrieval that includes a system for backup.		describe a method of cataloging photographs for easy retrieval that includes a system for backup.	
6. <b>TSW</b> save files in correct size and format which reflects readiness for fine quality printing, document placement, web page and or e-mail use.		save files in correct size and format which reflects readiness for fine quality printing, document placement, web page and or e-mail use.	

**TECHNOLOGY SECONDARY S01-BASIC IMAGE MANIPULATION  
EVALUATION RUBRIC**

	Beginner Achieving 2 pts	Moderate Achieving 3pts	High Achieving 4pts	Self Evaluation Grade	Instructor Grade
Assignment Specifications, (Subject matter, number of images, size, properly naming files, resolution etc.)	Subject matter does not satisfy assignment. Images are missing or too many; student needed to edit down number.	Images meet the minimum level of quality and subject matter to satisfy the assignment. Subject matter could be improved; some images appear to be filler material.	Strong choice of subject matter. Images are edited to include only the strongest images. Proper size, naming and resolution.		
Composition	The images are shot in a plain manner, distracting from the composition and leaving image stagnant. Backgrounds are busy or distract from the focus of the image.	Image composition has potential, but other angles, focal lengths and positioning of subjects will improve image.	Strong composition, images are strong because of layout and placement of camera to model.		
Image Quality	Images are not properly exposed and/or focused. Images have not been corrected in Photoshop for colorcast, sharpness, and clone-stamp out distracting elements of image.	Images are slightly out of focus. Image needs additional work in Photoshop to be properly exposed, (lighting, color, levels). Overworked in Photoshop; images don't look natural, overly filtered/ manipulated.	High quality images, properly exposed, effectively retouched/ altered without being distracting.		
Concept	Student needs to further polish project idea in order to avoid the obvious interpretation of the assignment. Further brainstorming ideas are recommended.	Ideas for images and satisfying assignment are there, but the execution needs improvement. Tell the idea/story through another "angle"	Strong and effective concept. Idea is communicated well without giving more than is needed.		
Use of design Elements	Assignment needs refining with use of elements and principles of design.	Assignment uses elements of design, but their use could be improved to more effectively communicate the assignments	Images and composition use the elements of design to create a strong layout.		
Total Points out of 20 possible:		Student Evaluation:			
Total Points out of 20 possible:		Teacher Evaluation:			
Total Points out of 40 possible:		Grand Total:			