PHOTOGRAPHY 1:

Exploring Digital Imaging – A Postcard Project!

(A High School LEVEL 1 PROJECT)

Doug Dimmer
262-238-5931
ddimmer@mtsd.k12.wi.us
and
Ryan Volke
262-238-5662
rvolke@mtsd.k12.wi.us

Homestead High School
5000 W. Mequon Rd.
Mequon, WI 53092

Digital Photography Lesson

Lesson Goal:

- From this lesson students will understand the power and influence of digital imaging and what it takes to create a document using Adobe Photoshop, a graphic design software used as an industry standard.

Instructional Objectives:

- Students will understand the difference between film photography and digital imaging.

- Students will be able to comprehend the basic set ups of Adobe Photoshop.

- Students will be able to determine what it takes to create a lay out and design using an industry standard software product.

- Students will be able to construct a visual representation of a standard postcard at the end of the unit.

Key Vocabulary:

- See attached vocabulary sheet.

Intended Audience:

- This activity is specifically intended for level 1 photography class with a blended group of high school students, grades 9-12.

Text: (attached) Outline and project guide.

Instructional Process:

- Classroom Demonstration.

Assessment:

- Formal Assessment - Quiz involving overlapping units in exposure and digital terms.

- Subjective Assessment - USA postcard project (see attachment).

DIGITAL VOCABULARY

FILM PHOTOGRAPHY vs. DIGITAL IMAGING
    CONTINUOS TONE - FILM
    PIXELS - DIGITAL

ADOBE PHOTOSHOP & RELATED PROGRAMS
    ADDITIONAL SOFTWARE PLUG INS
    LAYERS:
        PRODUCING AND SAVING
        MANIPULATING
        LAYER EFFECTS
        LAYER STYLES
    MENUS AND TOOL BARS

FILE SIZE & RESOLUTION
    BYTES / INCH
    FILE FORMATS
        JPEG
        TIFF
        PSD.

PICTURE MODES
    GRAYSCALE
    RGB
    DUOTONE

DOWNLOADING FILES
    DIGITAL CAMERA / SOURCE
    SECONDARY FILES
        HARD DRIVE
        FLOPPY DRIVE
        ZIP DRIVE
        JUMP DRIVE
        CD
        EXTERNAL HARD DRIVE
    SCANNING

PRINTING
    PAPER TYPE AND QUALITY
    PAGE SET UP
    PRINT QUALITY

Adobe Photoshop

*Procedure on how to get set up and started in Adobe Photoshop.

STEPS:

1. **Find picture**- Any picture b&w, digital color- most important is that **you take it!**

2. **Scan**- Scan your picture, **if you need too,** on the scanner and save to your zip disc. Save as a **jpeg!**

3. **Computer**- Log in, go to your **Hard-drive icon**, and go to the special applications icon; then to the folder marked Adobe photoshop. Open the icon **Photoshop 6.0** (it has an eye as a logo).

4. **Open program- it takes awhile to set up.**
   - Click in the File menu "open" to get your photo in whatever file you saved it.
   - Once you have your picture up, 1st. set up a duplicate layer by going to the layer, top menu, and go to duplicate layer, click and name.
   - Next- size your picture to or as close to 4.1 x 6.1 through the image drop down menu go to **"image size".**
   - After this you can use the filter tools to digitally enhance your photo ,
   - Also add text by the text tool on your main menu bar, drag box where you want to put text and write it down.
   - Save your work several times through your entire time on the computer to your server account
   - Do this to 2 photos.
   - Now, open up a new document that is 8.5 x 11 (**make sure image size is 150 for all components**).
   - With the other 2 photos you just created, select all, copy, and move to the new sheet and paste. Do this for both photos and move them to each half of your paper with the move tool in the main tool bar (⬍⬌)
   - Save new sheet.
   - Go to print. Check print set up to make paper in profile position.
   - In print mode, go to top drop menu and switch the paper quality to premium photo glossy type and switch to photo resolution.
   - Command print, make sure paper engages into print rollers and feeds through the printer.

5. **You're done. Follow assignment guidelines next.**

QUIZ: 2

NAME: _____

CLASS: _____

CIRCLE EITHER "T" FOR THE CORRECT STATEMENT, OR "F" FOR THE INCORRECT STATEMENT.

T   F   1. THE SHUTTER RELEASE CONTROLS THE LENGTH OF TIME THAT THE LIGHT IS EXPOSED TO THE FILM.

T   F   2. THERE IS NO NEED TO RECYCLE YOUR CHEMICALS WHEN FILM PROCESSING BECAUSE THEY ARE EXHAUSTED AFTER THEY ARE USED.

T   F   3. ISO 400 SPEED FILM IS TWICE AS FAST AS ISO 200 SPEED FILM.

T   F   4. WITH SHUTTER SPEEDS OF 1/125 AND BELOW, YOU SHOULD ALWAYS USE A TRIPOD.

T   F   5. A GOOD NEGATIVE ALWAYS HAS A FULL RANGE OF TONES.

T   F   6. TWO TYPES OF HAND HELD METERS ARE THROUGH THE LENS AND REFLECTIVE.

T   F   7. A LATENT IMAGE IS YOUR FINGERPRINT ON THE NEGATIVE.

T   F   8. 68 DEG. IS THE APPROPRIATE WORKING TEMPERATURE TO DEVELOP FILM.

T   F   9. A WAY TO ENSURE A QUALITY PHOTOGRAGH IS TO BRACKET YOUR SHOTS.

T   F   10. "PIXEL" STANDS FOR PICTURE ENLARGEMENTS.

T   F   11. A JPEG IS USUALLY THE LARGEST FILE SIZE THAT YOU WANT TO OPEN INTO PHOTOSHOP AND CAN BE COMPRESSED DOWN TO A PSD FILE TO SAVE SPACE.

T   F   12. WHEN APPLYING THE RULES OF THIRDS, THE SUBJECT SHOULD ALWAYS BE CENTERED IN THE PICTURE.

T   F   13. THE LARGER THE F-STOP NUMBER, THE LARGER THE APERTURE IS.

T   F   14. IF YOU CROP AN IMAGE, YOU USUALLY ARE RESIZING OR REPOSITIONING THE IMAGE IN YOUR PHOTO.

T   F   15. DEPTH OF FIELD MEANS THE AMOUNT OF ACCEPTABLE FOCUS THERE IS WITHIN THE PICTURE.

T   F   16. FOR STOP ACTION PHOTOS, YOU NEED TO USE A FAST SHUTTER SPEED.

T   F   17. ISO STANDS FOR INTERNAL SERVICE ORGANIZATION.

T   F   18. YOU DO NOT NEED TO MAKE A TEST PRINT BEFORE ENLARGING.

T   F   19. BULB SETTING IS A SHUTTER SPEED THAT IS PRE-SET BY THE CAMERA MANUFACTURER.

T   F   20. COMPOSITION IS HOW YOU ARRANGE THE SUBJECT MATTER OF THE PICTURE.

MATCHING:

_____ 1. REFLECTIVE METER

_____ 2. PSD

_____ 3. VARIABLE CONTRAST PRINT PAPER

_____ 4. APERTURE

_____ 5. PANNING

_____ 6. TTL METER

_____ 7. DEPTH OF FIELD

_____ 8. AGITATING

_____ 9. JPEG

_____10. PHOTO-FLO

_____11. SHUTTER SPEED

_____12. ZIP DRIVE

_____13. FILTERS

_____14. BRACKETING

_____15. WORKING LIFE

A. NEUTRAL, OVER, AND UNDER EXPOSED PRINTS OF THE SAME SUBJECT.

B. PRINT PAPER HAVING SELECTIVE CONTRAST FOR DIFFERENT DENSITY NEGATIVES.

C. A COMPRESSED FILE.

D. RANGE, WHICH EVERYTHING IS IN FOCUS IN YOUR NEGATIVE.

E. A SECONDARY STORAGE DEVICE.

F. A TOOL TO CREATE BETTER TONE IN A PRINT.

G. HAND HELD METER THAT FINDS EXPSURE BY BOUNCING SIGNAL OFF SUBJECT.

H. THROUGH THE LENS METERING

I. FULL-SIZE PHOTOSHOP DOCUMENT

J. OPENING IN CAMERAS LENS.

K. THE DURATION A CHEMICAL IS GOOD FOR.

L. CHEMICAL THAT HELPS REDUCE SPOTTING.

M. CONTROLS THE LENGTH OF TIME LIGHT IS EXPOSED TO THE FILM.

N. PROCESS OF TURNING THE TANK.

O. MOVING THE CAMERA WITH THE MOTION.

SHORT ANSWER

1. WHICH OF THE FOLLOWING IS THE RECOMMENDED TEMPERATURE FOR DEVELOPING **FILM**?
   A) 65   B) 68   C) 72   D) 77   E) 78

2. LIST 4 FACTORS THAT INFLUENCE PROPER FILM EXPOSURE?

   A._____

   B._____

   C._____

   D._____

3. WHAT 3 ITEMS DO WE USE AT WORKING STRENGTH DURING FILM PROCESSING, WHICH THEN **MUST** BE RECYCLED AFTER USE?
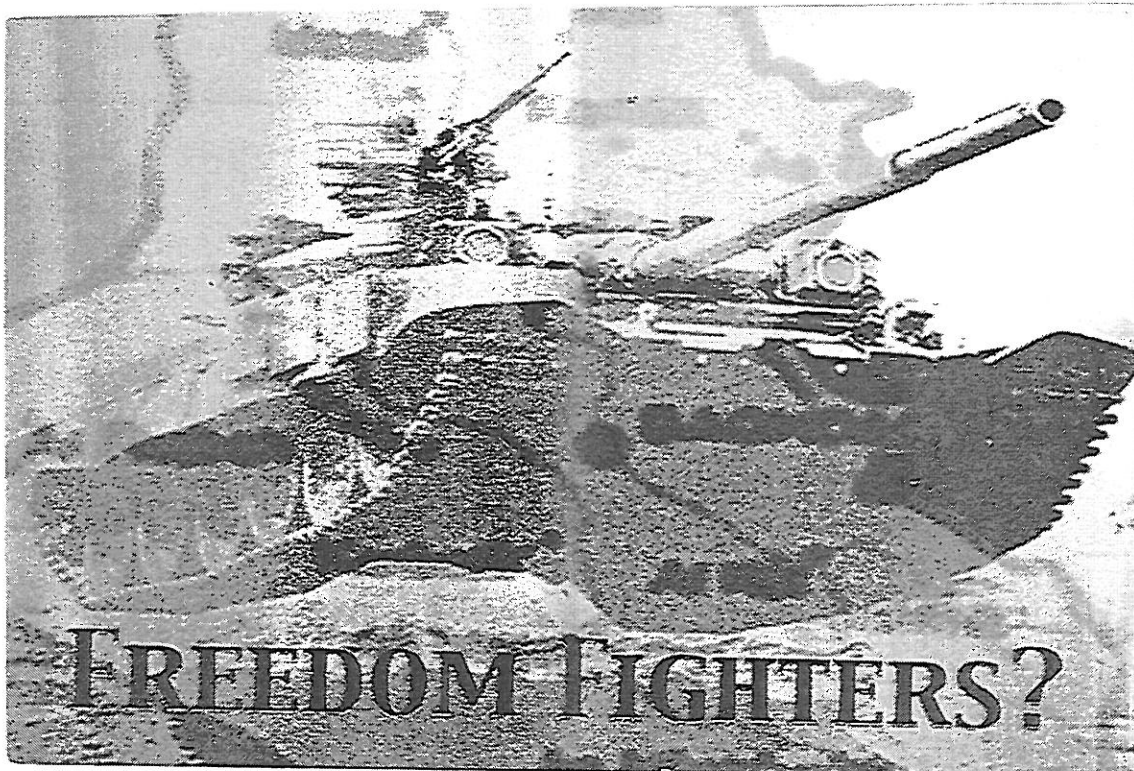
   A._____

   B._____

   C._____

yoUr poStcArd project

Assignment: Students will create 2 picture postcards to send.

- 2 digital prints (you supply the disc, any format).

- Now go onto Adobe Photoshop and create a visual masterpiece using the filters, text, or any other feature you would like to use.
- Format your image size to 4.1 x 6.1, or as close to these settings as possible.
- Add both formatted pictures to 1 full size piece of paper using the copy and paste technique explained in class.
- Print postcards out on 8.5 x 11 sheet of photo quality stock. Trim both pictures out.
- Once your prints, you will be adhering a postcard backer to the photos. Trim the postcard after you have successfully adhered the backer to the photo. Write a message on the card, and send to:
- Troops in Iraq.
- Write a general message on one, and leave one blank.

  I will be mailing them for you at the end of the assignment.
- **Theme:** Your goal is to create images that visually communicate _a spirit of patriotism!_

  TOTAL POINTS: **100 PTS.**

  DUE DATE: _____

FREEDOM FIGHTERS?

Place
postage
here

To:

Place
postage
here

To:

Place
postage
here

To: