NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Study Guide DIGITAL photography

1. History of digital photography (first digital cameras were low res. and expensive)

 *(film and digital are just the way a picture is recorded)*

 *(George Eastman - Kodak - first affordable film camera)* (Sony Mavica - *Magnetic Video Camera)*

1. Careers in photography

3. Focal plane curtain shutter (time and light) (shutter speeds - how long the camera is active)

4. A leaf (iris) shutter (fractions of light - through the lens aperture) Aperture and depth-of-field

*5.* Zooming: 3x 4x 10x 12x

*6*. Digital and optical zoom (telephoto effect)

*7.* SLR (Single Lens Reflex and Point & Shoot cameras)

*8*. Lenses (zoom) (prime)

9. Camera modes

10. ISO

11. Grain and Noise

12. White balance

13. Cropping photos

14. Tripods and Monopods (three legs and one leg)

*15* Digital contact or proof sheets (Larger photo with small thumbnails on it)

16. Action photography and freezing or blurring action. (fast shutter speed = freeze action)

 (slow shutter speed = blurred action) (fast shutter needs more light) (slow shutter speed = less light)

*17*. Size of digital files (fine, extra fine, standard, etc.)

*18.* Flash photography and red eye

*19*. Resolution = 72 ppi vs. 300 dpi (72 digital & 300 printing such as an 8x10 print size or better)

20. Kinds or format of digital files *RAW JPEG PNG*

21. Memory cards *SD, CF, XD, Memory Stick (SONY), Smart Media (not photo cards) (images are stored on card)*

**

22. Portfolio (compilation of your best work)

*23.* Storing, editing and printing

*24.* Organization that competes and leads in photography (SkillsUSA)

*25.* Composition rules

*26.* Pixels and Pixilated

*27.* Histogram

ADOBE PHOTOSHOP

28. LAYERS - (making a new layer places it just above the layer you are on) & Opacity of layers

29. Undo = the history

*a. One step at a time is Cntrl/z and Cntrl/alt/z is another step back in history*

30. Shortcuts in Photoshop

*a. Brackets make brush sizes bigger.*

b. *Right clicking gives many options*

31. Photoshop tools:

*a. Lasso (selects any shape of pixels) (selection tool)*

*b. Polygonal Lasso (selects pixels in multi-sided straight lines) (selection tool)*

*c. Marquee (rectangles, squares, ovals, circles) (selection tool)*

*d. Crop (select size and resolution)*

*e. Text (makes type)*

*f. Clone stamp (selects or duplicates pixels)*

*g. Magic wand (color related pixels) (selection tool)*

*h. Eye dropper (sample colors)*

*i. Dodge (lightens) and Burn (darkens)*

*j. Levels (changes contrast, lightness & darkness)*

*k. Brush / pencil [ bracket keys ] (makes any active tool larger & smaller)*

*l. Zoom tool (makes your photo smaller and larger)*

32. HUE = *the actual color and SATURATION = color intensity*

*33*. Drawing and painting lines = *hold down shift to draw straight lines*

*34*. Point and shoot and DSLR

*35.* The shutter button (focuses and meters the lens and camera)

*36.*  Mega pixel (1,000,000 - 1 million)



37. Work Flow (capture, edit, output)