

NAME ___Crandall_____ Class Period _____A7_____

Study Guide DIGITAL photography

1. History of digital photography:

1826 France - 1st photo ever

1998 Sony - Mavica

1888 Kodak - Public use camera by

2001 Nikon & Canon invented the first DSLR (pro camera)

2. Film camera and Digital cameras and their only difference:

How they record the image

3. Lens openings: A leaf (iris) shutter Aperture and depth-of-field

Shutter inside the lens - Open and closes depending on the light

4. Zooming: 2X 4X 10X - Multiple Focal Length

How many times closer

5. Digital zoom (POOR QUALITY) and Optical Zoom - Lens optics (BEST QUALITY)

6. Point & Shoot: Cell phone camera

DSLR: Digital Single Lens Reflex (professional)

Mirrorless: (no mirror)

7. Lenses (Optical and zooming with optics)

8. Camera modes: _____

The mountain = Landscape

Running guy = Action/Sports

Person = Portrait

Flower = Macro

Green Square or Camera = full Automatic (You shoot the shot and

The camera does the rest) focus

A= Aperture (Aperture Priority)

S = Shutter (Shutter Priority)

M = Manual (you do everything)

9. ISO: International Standard Organization

Sensor Speed

10. Grain and Noise 100 = Sunny 200 = part sun 400 = indoor/outdoors

800 = sports/action 1600 = concerts 3200 = low light

Higher the number = higher noise or grain

11. White balance Controls color _____

12. Cropping photos CUTS OUT UNWANTED PARTS

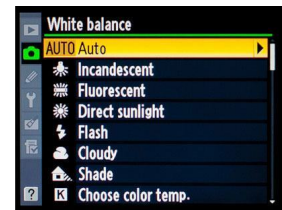
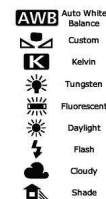
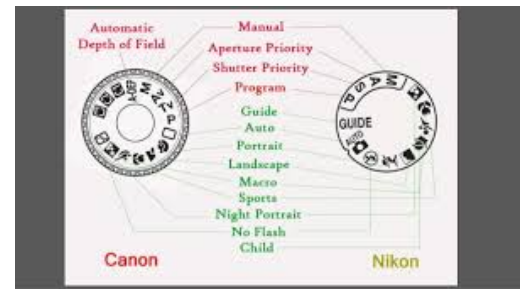
13. Tripods and Monopods: Tripod has 3 legs - Monopod has 1 leg

Fast shutter of 1/1000 of a second (not tripod)

Slow shutter below 1/30 of second (needs tripod)

14. Digital contact or proof sheets Larger photo with little photos on the sheet

The little photos are called "Thumbnails"



15. Action photography and freezing or blurring action
 1/500 and 1/1000 FAST Frozen
 1 second, 1/2 second, 1/15 second SLOW blurred



(shutter speeds - how long the camera is active) —————

16. Size of digital files (more pixels - larger MB MegaBytes)
 more takes more memory space

17. Flash photography and red eye: Retina (blood) shows on the eyes

18. Resolution = 72 ppi vs. 300 ppi
 Digital computer picture. Printed pictures



19. Kinds or format of digital files: .JPG / .JPEG .psd .png .tiff .raw .pdf

20. Memory cards: SD (Secure Data) CF (compact Flash)

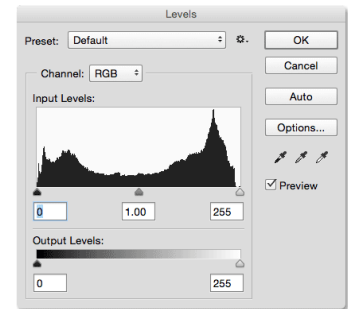
21. Portfolio: 20-30 of your best photos

22. Capturing, Storing, Control / Editing and Printing or Output/Upload
 Photo Processing

23. Organization that competes and leadership in photography:
 SKILLS USA

24. Pixels and Pixilated: Seeing the pixels (poor quality)
 Low resolution (less pixels) High res (more pixels)

25. Histogram ————— History or Diagram of the pixels —————



ADOBE PHOTOSHOP

28. LAYERS When you make a NEW LAYER is places it right above the layer you are on

29. Undo called the history:

- a. One step at a time is Cntrl/z OR Command Z) and Cntrl/alt/z or Command/Option Z) is another step back in history

30. Shortcuts in Photoshop

- a. Brackets make brush sizes bigger. { }

31. Photoshop tools:

- Lasso: (selects pixels in any shape)
- Polygonal Lasso: (selects pixels in straight lines)
- Marquee: (selects pixels in rectangles and oval)
- Crop: (Crops out unwanted parts of your picture and frames your image)
- Text: (Places text or lettering on your photo)
- Clone stamp: (Copies "Color Related" pixels - SAMPLING POINT is Command or Control+Click) and duplicates parts of the image
- Magic wand: (Selects similar pixels)
- Eye dropper (Selects and samples the colors)
- Dodge (lightens pixels) and Burn (Darkens Pixels)
- Levels (adjust pixels for contrast and quality)
- Brush / pencil (draws lines)
 (to paint straight lines + hold down shift)
- Zoom tool (zooms in on your picture and pixels)



32. Hue (color) & Saturation (amount of color)

33. Drawing and erasing straight lines (hold down shift)

34. Exposure: _____

36. The shutter button (Samples + meters the light - Pops the flash and it focuses the lens if on automatic and takes the picture)

37. Mega pixel: 1,000,000 pixels

38. Work Flow: Capture, control, output (print or upload)

39. Straighten and cropping photos: The crop tool and straighten crop tool

40. Composition & Elements of Art:



FORCED PERSPECTIVE



FRAMING

ASYMMETRICAL



SYMMETRICAL



RULE OF THIRDS



LEADING LINES



41. ELEMENT OF ART IS: An individual part of the art

42. Quick Mask in Photoshop _____

43. LENSES & ZOOM

Telephoto Zoom _____

80mm and above

Standard Zoom _____

50mm-70mm

Wide Angle Zoom _____

10mm-35mm