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Pathfinder's Name

## Digital Photography

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- Explain the following:

What are the principles of digital camera construction and how a digital camera works? \_\_\_\_\_

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What are the effect of light on an image sensor?

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How color images are created from the BW image the sensor captures?

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What the camera lens does; what focal length means?

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How are lens aperture and depth of field related?

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Describe pixels, image resolution, and image size?

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What are the two types of image compression?

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2. Name and describe three types of image formats.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

3. Give the principle uses of photography:

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4. Take pictures illustrating at least eight of the following techniques. Use comparison pictures for illustration.

- a. Framing
- b. Camera Steadiness
- c. Direction of lighting - front, side, or backlighting
- d. Quality of light - shade, sunlight, and time of day
- e. Rule of thirds
- f. Angle - eye level, high and low level
- g. Level horizon
- h. Distance from subject - fill the frame
- i. Use of leading lines
- j. Correct exposure - underexposed, overexposed, and correctly exposed
- k. Use of flash - proper distance and reflective objects

- 5. Learn how to place photos in PowerPoint. Create a PowerPoint presentation showing the pictures you took using the above techniques.
- 6. Using a photo editing program on a computer, show ability to crop, color correct, sharpen, and adjust brightness/contrast to photos.
- 7. Complete at least three creative photographic projects in a photo editing program; such as a CD cover, a photo scrapbook page, a collage, etc.
- 8. Have a basic understanding of file organization techniques.

Date completed \_\_\_\_\_

Instructor's Signature \_\_\_\_\_