

## Understanding Digital Photography: Introductory Activity

Directions: Answer the following questions on a separate piece of paper. Note: For this activity, you are required to incorporate the questions into the answer. Answer questions by studying the Penn State camera simulator at this web address:

*<https://bellisario.psu.edu/photo/home.html>*

### Depth of Field

What is depth of field?

Define it in a way that makes it easy for you to understand and remember.

Draw an aperture at f/2.8.

Draw an aperture at f/22

To change depth of field, what two camera controls must change together?

### Focal Length

What is the focal range of the simulator camera?

Did anything surprise you about the effect of focal range?

### White Balance

What is the relationship between color of light and white balance?

Explain why the color changes on the simulator when you choose different settings.

### Shutter Speed

What is the difference in images between shooting at 1/13 and 1/2500?

Explain why a fast or slower shutter speed creates these image effects.

### Exposure

What does it mean for a photo to be under exposed?

What does it mean for a photo to be over exposed?

What are the two reading that change in this part of the simulator?

What combination produces, in your opinion, the best exposure?

### ISO

“ISO” is an abbreviation for what? (you may need to Google this)

A low ISO value is best for what type of lighting?

A high ISO value is best for what type of lighting situation?

What quality issues arise when an ISO is too high?