

What: [Exposure Triangle Simulator](#)

Why: To gain understanding of basic photography concepts and communicate your thinking,

How: Experiment with camera settings of ISO, shutter speed and aperture, analyze the photos, and record your responses.

Standards: 2.B.1 Analyze how parts of a whole interact with each other to produce overall outcomes in complex systems

Name:

Click this link: [Exposure Triangle Simulator 3.0](#)

For this assignment, adjust the camera settings as stated and write down your discoveries.

Notice the settings start at: Light: partly cloudy, Shutter Speed: 1/60, Aperture: F4, ISO: 100

1. Set it to full sun.
2. What shutter speed makes the bird's wings appear the most sharply defined?
3. Next, adjust the ISO for a correct exposure. What did you set it to?
4. Change ISO back to 100. Adjust the fstop for a correct exposure. Which Fstop did you choose?
5. Are the mountains in the background in focus or blurred?
6. Adjust the fstop to f2.8. How do the mountains appear?
7. Adjust the fstop to f8. How do the mountains appear?
8. Adjust the fstop to f16 and then f22. How do the mountains appear?
9. Which fstop do you prefer and why?
10. Make these settings: ISO 50, F11. Adjust the shutter speed: What shutter speed blurs the birds to show their motion?
11. Play with the simulator until you really understand how the 3 settings affect light, motion blur and depth of field. What have you learned?