Higher ISO

Brightens the image (increases exposure and noise/grainy images)

Lower ISO

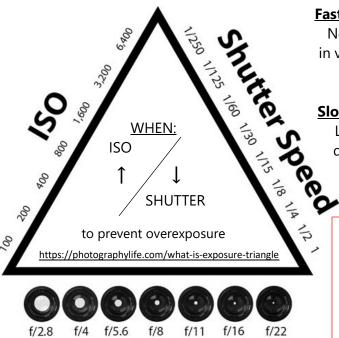
Darkens the image (decreases exposure)

<u>lssue #1:</u>

NOTES

Dim Lighting Action Photo Aperture = f/11 (too dim) Shutter = 1/2000

The lens needs to be opened wider and shutter needs to be slowed to let in light but slowing the shutter too much can cause blur.



Aperture

(also known as f-stop)

Faster/Higher/Short Shutter

No need to let light in (used in very bright areas; shutter is too fast to let in light)

Slower/Lower/Long Shutter

Lets in more light (used for dark areas; shutter slows to allow more light to enter) *will create motion blur

Issue #2:

Bright Day Landscape Photo Aperture = f/22 Shutter = 1/2000 (too fast)

The smaller lens needs more time to let light in but lowering the shutter too much will create glare on a bright day.

Bigger Hole = Light Allowed = Shallow Depth

Increases Exposure Capture more light

Good for focusing on one thing and blurring the rest

Smaller Hole = Light Blocked = Wider Depth

Decreases Exposure

For very bright areas (will not capture light)
Good for sharp images of large areas

Shutter Priority Shooting

1/250 for slower moving subjects (kids)
1/500 for faster moving subjects (sports)
1/2000 for very fast-moving subjects (cars)
Auto ISO

Manual Mode

Allows you to adjust Aperture and Shutter Speed Stay on Auto ISO

Portrait shooting

Aperture Priority
Low f/stop for headshots (zoomed in)
Higher f/stop for families (wider view)
Auto ISO

- 2nd subject out of focus higher f/stop
- Not enough background blur lower f/stop
- Increase shutter speed for moving subjects

Day-to-day shooting

Aperture Priority Lowest f/stop Auto ISO

SHOOT, REVIEW & ADJUST

~~~~~~~~~~~~ QUICK INSTRUCTIONS ~~~~~~~~~~~~~~

Landscape Photography

- Use aperture-priority set to f/8 (or wider for more depth—front to back)
- Set ISO to base value (shutter speed is automatic in this mode)

Portrait Photography

- Use aperture-priority set to f/2.8 (shallow for very close, wider for farther away)
- Raising your ISO will increase light and shutter speed which decreases motion blur

Sports and Wildlife

- Use shutter-priority (aperture-priority will create grainy images)
- You will need fast shutter speed which decreases motion blur (may need higher ISO for darkness)

Symbol	Exposure Mode	Description
P	Programmed Autoexposure	Camera selects both the f-stop and shutter speed to ensure proper exposure but the user can choose from multiple combinations of the two settings.
Α	Aperture-priority Autoexposure	The user selects f-stop, and the camera selects the shutter speed that will produce a good exposure.
S	Shutter-priority Autoexposure	The user sets shutter speed, and the camera selects the f-stop that will produce a good exposure.
M	Manual Exposure	The user controls both the shutter speed and f-stop.