

## Photography Terms Project

In this assignment, you will be learning the basic terminology of photography.

After completing this assignment, you will be able to:

1. define what "Aperture" is.
2. define what "ISO" is.
3. define what "Shutter Speed" is.
4. define what a "Histogram" is.
5. define what the "Program, Aperture, Shutter and Manual" mode are on a camera.
6. demonstrate their knowledge of the above by making an image that is appropriately exposed with either a DSLR camera or an iPad with manual camera apps.

What you will need to do this:

1. Canon camera lens simulator (Links to an external site.)  
Links to an external site.
2. CameraSim Camera Simulator (Links to an external site.)  
Links to an external site.
3. Class DSLR (digital single-lens reflex camera)
4. iPhone app for manual camera settings: <https://itunes.apple.com/us/app/shutter-manual-camera/id1019169526?mt=8> (Links to an external site.)  
Links to an external site.
5. Android app for manual camera settings: <https://play.google.com/store/apps/details?id=com.footej.camera&hl=en> (Links to an external site.)  
Links to an external site.
6. Macbook to edit images

How you will do this:

1. I will demonstrate what each of the terms mean in photography by showing how they work with the various camera simulators.
2. Students will read and access infographic below describing each of the terms in photography.
3. Students will then practice making correctly exposed images using the various simulators.
4. Students will then practice making images using the classroom DSLR cameras or iPads in teams of three-four on the OHS campus.
5. **Upload 5 images to your Weebly Website that demonstrate working knowledge of the manual camera settings of a camera. Include the camera setting for each photo. (ISO, Aperture or f stop, Shutter Speed).**

# Photography Terms Project

- Place the URL of your Weebly Website page that has the images on it under **Submit Assignment** here.

Try watching this video on [www.youtube.com](http://www.youtube.com)

Try watching this video on [www.youtube.com](http://www.youtube.com)

## The 3 Elements of Exposure

The terms APERTURE and ISO are commonly found on Still Cameras and HDSDI & HD1080i cameras.iris and GAIN are terms used for traditional video cameras.

### APERTURE / IRIS

How big is the hole letting light into the camera  
Smaller FStop means larger hole & brighter exposure

F1.5	F2.4	F3.5	F5.6	F8	F11	F16	F32
------	------	------	------	----	-----	-----	-----

BRIGHTER EXPOSURE  
SHALLOW FOCUS (SMALL DEPTH OF FIELD)

DARKER EXPOSURE  
DEEP FOCUS (LARGE DEPTH OF FIELD)

### SHUTTER SPEED

How long will the sensor gather light for the image  
Measured in seconds or fractions of a second

5"	2.5"	1"	1/15	1/30	1/60	1/120	1/250	1/500	1/1000
----	------	----	------	------	------	-------	-------	-------	--------

BRIGHTER EXPOSURE  
LARGE AMOUNTS OF MOTION BLUR

DARKER EXPOSURE  
SHARPER IMAGES WITHOUT BLUR

### ISO / GAIN

How sensitive the sensor is to light  
Higher Values means more sensitive (Video Gain is in dB)

6400	3200	1600	1250	800	650	500	400	320	160	100
db+18		+12		+9		+6		+3	0	-3

BRIGHTER EXPOSURE  
LOTS OF DIGITAL NOISE

DARKER EXPOSURE  
VERY LITTLE DIGITAL NOISE




### ND FILTERS

Reduces the amount of light entering the lens

58mm ND4

FILMMAKER i created by John P. Hax

## Photography Terms Project

Understanding Basic Photography Terms   		
Criteria	Ratings	Pts
Student created five images that demonstrate knowledge of aperture, ISO and shutter speed.	This area will be used by the assessor to leave comments related to this criterion.	60.0 pts
Correctly exported and uploaded images to Canvas.	This area will be used by the assessor to leave comments related to this criterion.	15.0 pts
Appropriately used class time to complete project.	This area will be used by the assessor to leave comments related to this criterion.	10.0 pts
Correctly identified and listed camera settings for each photo in the comments	This area will be used by the assessor to leave comments related to this criterion.	15.0 pts
<b>Total Points: 100.0</b>		