EXTERNAL FLASH

- When you are taking pictures of people or objects
- Consider using a diffuser to lesson the harsh shadows

DSLR

- Camera with manual controls
- High ISO
- Burst shooting capabilities
- Ability to shoot in RAW

LENS

- · Preferably with an aperture below f/2.8
- Look for one with image stabilization or vibration reduction

TAKE PHOTOS IN LOW LIGHT

REMOTE SHUTTER RELEA

You can shake the camera when you press the shutter release, a remote should help to eliminate that shake

TRIPOD

- To steady your camera & reduce shake
- Essential for long exposures

HOW TO GUIDE:

- · Put your camera in aperture priority mode, this will ensure that you control all available options.
- · Crank up ISO. This may result in a image with additional noise, but this can be fixed with some post-processing (shoot in RAW if available).
- Use a large aperture. Larger apertures let in more light.
- Slow down shutter speed. The longer your shutter is open the more light that will get in.
- · Use an off camera flash. Try to direct the light so that it doesn't hit your subject straight on, try deflecting the light to soften it.
- Use your cameras exposure compensation capability. The scale on many of today's DSLR's allow from -3 to +3 stops in 1/3 stop increments. Dial the exposure compensation to the positive side to purposefully "overexpose" the photograph.

SETTING'S FOR YOUR CAMERA:

	Tripod	Flash	ISO	Aperture	Exposure
Indoor		✓	High	Wide	Fast
Hand Held	X	_	High	Wide	Fast
City Lights	✓	X	Low	Medium	Long
Stars	✓	X	Low	Medium	Long
Light Painting	✓	X	Low	Narrow	Long

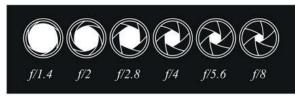
QUICH TIPS:

- · Shine a light on your subject and auto focus on that, then turn your light and auto focus off and take the picture.
- Do not be afraid to turn up your ISO, crank it up as high as you need, do not worry about the noise, get the shot. When using a flash
- bounce the light off a wall or other object will help to reduce harsh shadows on your subject. Motion blur can be a cool
- effect, experiment with a moving subject and a longer exposure time. • If your camera, or lens has
- image stabilization make sure its on. · Do not be afraid to make
- a mistake, you can learn a lot from a mistake. Hand-held shots should be no slower then 1/60th of a second other wise use

a tripod to reduce blur.

- Buy a 50mm lens f/1.8.
- · If you aim your camera towards the north star, the stars will appear to spiral.

- What is ISO: How sensitive the camera sensor is to light.
 - What is Shutter Speed (Exposure): How long your shutter is open, allowing light to reach the sensor.
 - What is Aperture: The diameter of the lens opening, which controls how much light gets to the sensor.



Wide ← > Narrow

LIGHT GRAFFITI AND PAINTING WITH LIGHT:

- Wear dark clothing. Find a dark location.
- Set your camera shutter speed to a long exposure, 20+ seconds or bulb setting. Set your camera on a tripod.
- Press shutter.
- · Begin painting with your flashlight, sparkler or
- glow stick. Experiment with aperture, ISO and shutter speed until you get the look you are going for.
- Check your work and try it again if you are not happy.

TAKE A PHOTOS LIKE A SNIPER:

· Brace yourself and your camera against wall, ground or other solid object.

- · Relax when you hold the camera, a tense hand will cause you to shake the camera.
- · Avoid zooming in on your subject. Take a deep breath, and exhale slowly then photograph.
- · Gently press the shutter button and leave your figure on it.



