

Exposure Chart 1: f/stops and Shutter Speed

The numbers in this chart are set to an arbitrary relationship where **f/8 @ 1/500** sec. is the “correct” exposure chosen by the Photographer. Yet, all of combinations are the “correct”. This is because as you go to the left of **f/8 @ 1/500** as the aperture becomes twice as large, the shutter speed becomes faster letting in half as much light as before. So as you go to the right of **f/8 @ 1/500** as the aperture becomes smaller by half, the slower shutter speed lets in twice as much light.

f/stop	f/2	f/2.8	f/4	f/5.6	f/8	f/11	f/16	f/22	f/32
	← Larger f/stop Openings Faster/Shorter Speeds				correct	Smaller f/stop Openings Slower/Longer Speeds →			
Shutter Speed	1/8000	1/4000	1/2000	1/1000	1/500	1/250	1/125	1/60	1/30

Both the f/stops and the shutter speeds are at **one stop** intervals between each other.

1. With f/stops, the small numbers are the larger aperture openings.
2. With Shutter Speeds, the higher the number, the shorter the time.
3. In Aperture & Shutter Priority Mode the above relationship is maintained when you change aperture or shutter settings.
4. In Manual Mode, you can change Aperture and Shutter setting independently of each other, if you need to create over or under exposure effects.