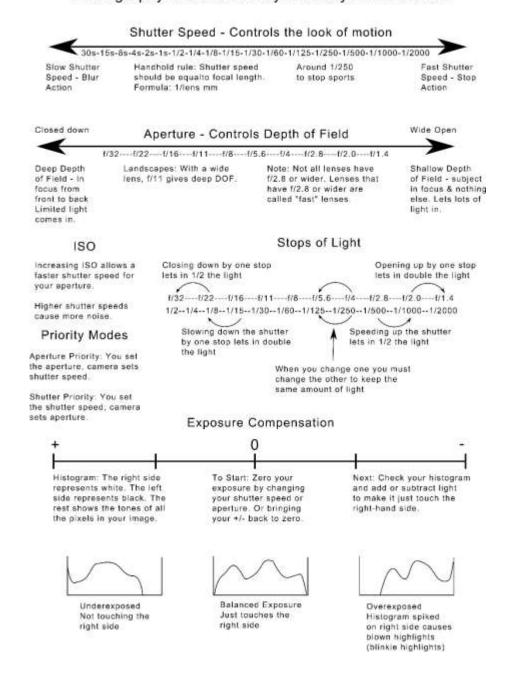
## **Reference Guides and Cheat Sheets**

## Photography Cheat Sheet by www.bryanhansel.com



## Shutter Speed for 600 Rule and 500 Rule www.bryanhansel.com **Shutter Speed** Focal DX Length Full Frame (mm) rule rule rule rule Note: Round up to nearest shutter speed

## ND Filter Exposure Chart www.bryanhansel.com

Shutter Speed	5-stop ND	6-stop ND	10-stop ND	
1/4000	1/125	1/60	1/4	
1/2000	1/60	1/30	1/2	
1/1000	1/30	1/15	1 sec	
1/500	1/15	1/8	2 sec	
1/250	1/8	1/4	4 sec	
1/125	1/4	1/2	8 sec	
1/60	1/2	1 sec	15 sec	
1/30	1 sec	2 sec	30 sec	
1/15	2 sec	4 sec	1 min	
1/8	4 sec	8 sec	2 min	
1/4	8 sec	15 sec	4 min	
1/2	15 sec	30 sec	8 min	
1 sec	30 sec	1 min	15 min	
2 sec	1 min	2 min	30 min	
4 sec	2 min	4 min	1 hour	
8 sec	4 min	8 min	2 hours	
15 sec	8 min	15 min	4 hours	
30 sec	15 min	30 min	8 hours	

			ND to	Stops Co	nversion (	hart				
Bryan Hansel   Photography Workshops - www.bryanhansel.com										
Number of Stops	1	2	3	4	5	6	7	8	9	10
ND.number	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3
NDnumber	ND2	ND4	ND8	ND16	ND32	ND64	ND128	ND256	ND512	ND1000