

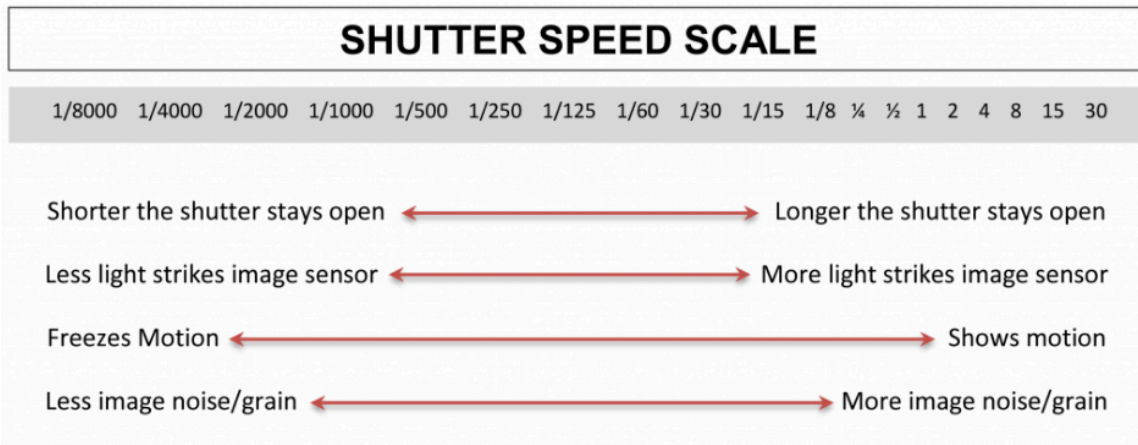
Name _____

Controlling Light | Shutter Speed + Aperture | Study Guide

To make a correct exposure, so that your picture is neither too light nor too dark, you need to control the amount of light that reaches the digital image sensor.

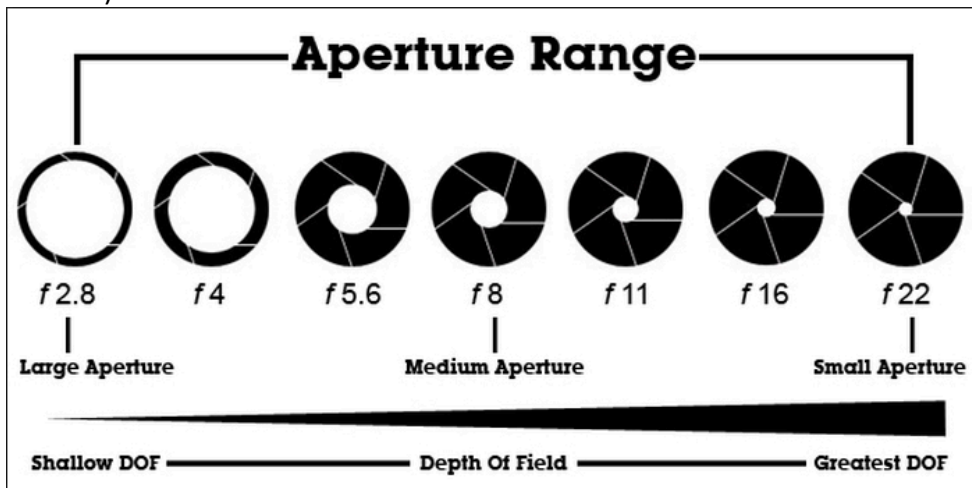
Shutter Speed = Exposure Time

The shutter speed (the amount of time the shutter remains open) is one of two controls your camera has over the amount of light entering the camera.



Aperture = f-Stop

The aperture size is the other light control (how big or small is the hole that allows light in the camera).

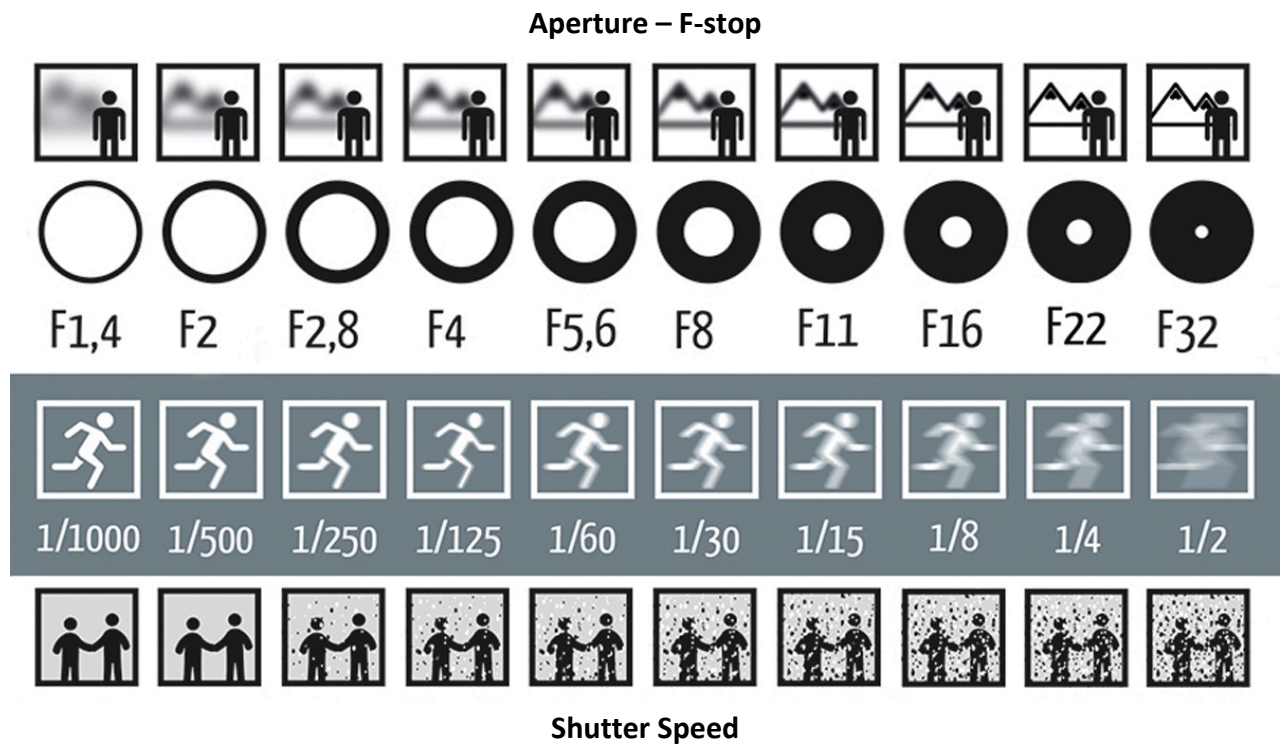


By controlling the amount of light that enters the camera, the shutter speed also affects the way that moving objects are shown.

A fast shutter speed can freeze motion—1/250 sec. is more than fast enough for most scenes. A very slow shutter speed will record even a slow-moving object with some blur.

Shutter Speed + Aperture

The **shutter speed and aperture** work together to achieve a correct exposure. As the shutter speed gets faster, letting less light hit the sensor, the aperture opening gets larger to make up the difference. If you want to use a small aperture opening, the shutter speed will become slower to compensate. For a correct exposure the shutter speed and the aperture opening need to work together to allow the correct amount of light strike the sensor.



1. Which photograph below best illustrates a fast shutter speed?



Imogen Cunningham

A



Max Waldman

B



Stephen Shore

C

2. Which photograph below best illustrates a fast shutter speed?



Ansel Adams

A



W. Eugene Smith

B



Eugene Atget

C

3. Which photographs below best illustrates a slow shutter speed?



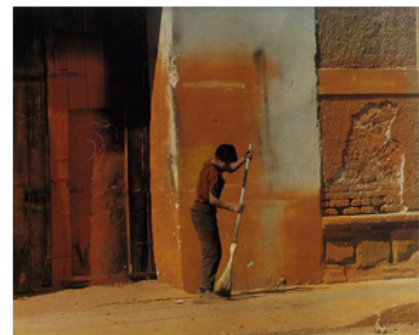
Berenice Abbott

A



Joel Meyerowitz

B



Alvarez Bravo

C

4. Which photograph below best illustrates a slow shutter speed?



Lothar Wolleh



Harry Callahan



Karl Blossfeldt

A

B

C

5. Which photograph below best illustrates a large aperture opening?



Gordon Parks



Robert Doisneau



Diane Arbus

A

B

C

6. Which photograph below best illustrates a large aperture opening?



Andre Kertesz



Josef Koudelka



William Eggleston

A

B

C

7. Which photograph below best illustrates a small aperture opening?



Lewis Hine

A



William Eggleston

B



Lewis Hine

C

8. Which photograph below best illustrates a small aperture opening?



Alfred Stieglitz

A



Lee Friedlanr

B



Lee Friedlanr

C

9. Which of the following photographs best illustrates a fast shutter speed with a large aperture opening?



John Becker

A



B



C

10. Which of the following photographs best illustrates a slow shutter speed with a small aperture opening?



A



B



C