

## Shutter Speed Lab

**SHUTTER SPEED** - Controls the length of time a camera's shutter is open, allowing light to hit the sensor.

*Fast shutter speed = less light hitting the sensor.*

*Slow shutter speed = more light hitting the sensor.*

To not be affected by your own motion = 1/30 and up

To freeze basic movement = 1/125 - 1/250

To freeze fast movements = 1/500 and up

1. EXPERIMENT with the "Exposure Triangle" on the S/Tv Setting on your mode dial. (Triangle = Aperture Settings / ISO / Shutter Speed)

2. EXPERIMENT WITH SHUTTER SPEED in the following 5 areas:

- **Freezing movement** (fast shutter speed)

**PHOTOGRAPH:** Freeze with no blur a subject that we clearly can see it's in intense movement.

- **Motion Blur** (slow shutter speed)

**PHOTOGRAPH:** Create something artistic or meaningful using motion blur.

- **Panning** (Following the subject with the camera)

**PHOTOGRAPH:** Make a photo of the subject moving, in focus while the background is blurred.

- **Zoom Blur** (slow shutter speed, moving the zoom ring)

**PHOTOGRAPH:** Make a photo where you alter the zoom while the sensor is being exposed, with a slow shutter speed.

- **Dragging the Shutter** (slow shutter speed, force flash)

**PHOTOGRAPH:** Make a photo at night or in a low lit space while you slow the shutter and force the flash to fire.

\* **CHALLENGE!** Extra point - take a picture, in the school gym from the Basketball team or the cheerleading team in action, in focus and not being neither underexposed nor overexposed.

*Wow = Velocity*