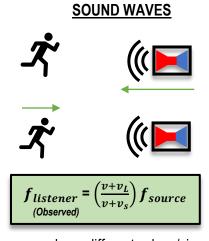
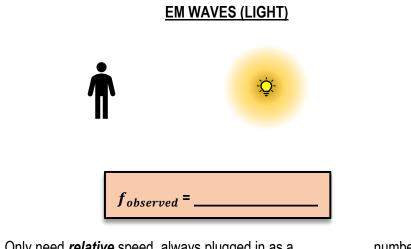
CONCEPT: DOPPLER EFFECT OF LIGHT

- Remember: Doppler Effect "shifts" frequency you *observe* based on ______ speed of source/observer.
 - Just as with sound, the Doppler Effect also occurs with E.M. Waves (light).



• $v_L \& v_S$, may have different values/signs



- Only need relative speed, always plugged in as a
 - + sign when observer & source getting [CLOSER | FARTHER]
 - sign when observer & source getting [CLOSER | FARTHER]

EXAMPLE: A distant star should theoretically radiate red light with a wavelength of 630nm. However, the star is measured to be receding from Earth at a speed of 3.0×106 m/s. What wavelength of light do we measure when looking at this star?