



THE DUAL NATURE OF LIGHT

LIGHT IS A WAVE

LIGHT BENDS LIKE A WAVE
(DEFRACTS, REFRACTS)
LIGHT BOUNCES LIKE A WAVE (REFLECTS)
LIGHT HAS CONSTRUCTIVE AND DESTRUCTIVE INTERFERENCE LIKE A WAVE
POLARIZATION SHOWS LIGHT AS A WAVE

LIGHT IS A PARTICLE

LIGHT TRAVELS THROUGH SPACE! NO OTHER WAVE CAN DO THAT.
WHEN YOU AMPLIFY LIGHT YOU DO NOT INCREASE AMPLITUDE OF WAVES, RATHER JUST THE NUMBER OF RAYS.
LIGHT IS EMITTED FROM A PARTICLE (EXCITED ELECTRONS)
ONLY CERTAIN WAVELENGTHS (OR FREQUENCIES) OF LIGHT CAN ACHIEVE THE PHOTOELECTRIC EFFECT. NO MATTER HOW HIGH THE INTENSITY IS.

INSTEAD OF BEING A TUG-OF-WAR, **BOTH** IDEAS ARE **TRUE** AT THE **SAME TIME!!**
 MODERN PHYSICISTS THINK THAT THE EXPERIMENT ITSELF ONLY ALLOWS YOU TO
 SEE ONE ASPECT OF LIGHT AT A TIME.

