

# Photon Theory of Light

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Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Warm Up

1. Draw a representation of a photon of light.
2. How does a photon of light differ from Maxwell's version of a light wave?
3. Write Planck's equation for the energy of one photon of light.
4. Calculate the frequency ( $Hz$ ) and wavelength ( $m$  and  $nm$ ) of one photon of light that carries  $2.9eV$  of energy.