

Formatting Formulas & Calculations

How to Format Formulas

Plank gave the name quantum to the smallest energy that can be emitted or absorbed. He proposed that energy, E, of a single quantum number equals a constant, h, times its frequency, ν .

$$E = h \nu$$

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How to Format Sample Calculations

To analyze our data we needed to use the following equation where energy, E, of a single quantum number equals a constant, h, times its frequency, ν .

$$E = h \nu$$

Shown below in figure 1, is a sample calculation using the equation for the energy of a photon.

$$\begin{aligned} E &= h \nu \\ &= (6.623 \times 10^{-34} \text{ J}\cdot\text{s})(5.09 \times 10^{14} \text{ s}^{-1}) \\ &= 3.37 \times 10^{-19} \text{ J} \end{aligned}$$

Figure 1. Energy Equation

Sample calculation of the energy of a photon.