

# A Poem of Physics

c is the Speed of Light.

h is the Planck constant.

A is the Ampere constant.

R is the Gas constant.

w is the Wien's displacement constant.

G is the Universal Gravity constant.

N is Avogadro's number.

F is the Faraday constant.

$$\text{meter} \equiv \frac{\left( \frac{G^{\frac{1}{2}} R^{\frac{1}{2}} w^{\frac{1}{2}}}{c^2 N^{\frac{1}{2}}} \right)}{\left( \frac{8313 (49)^{-49}}{36412 (\pi^2)} \right)} = \frac{\left( \frac{G^{\frac{1}{2}} h^2 N^{\frac{3}{2}}}{R^{\frac{3}{2}} w^{\frac{3}{2}}} \right)}{\left( \frac{15962 (49)^{-47}}{69905 (\pi^2)} \right)} = \frac{\left( \frac{F^{\frac{2}{3}} G^{\frac{1}{6}} R^{\frac{1}{6}} w^{\frac{1}{6}}}{A^{\frac{2}{3}} N^{\frac{5}{6}}} \right)}{\left( \frac{27819 (49)^{-26}}{64588 (\pi^2)} \right)}$$

$$\text{kilogram} \equiv \frac{\left( \frac{c^3 F}{A G N} \right)}{\left( \frac{35993 (49)^{24}}{27982 (\pi^2)} \right)} = \frac{\left( \frac{A^{\frac{1}{5}} h^{\frac{3}{5}} N^{\frac{1}{5}}}{G^{\frac{2}{5}} F^{\frac{1}{5}}} \right)}{\left( \frac{33668 (49)^{-18}}{11995 (\pi^2)} \right)} = \frac{\left( \frac{R^{\frac{1}{2}} w^{\frac{1}{2}}}{G^{\frac{1}{2}} N^{\frac{1}{2}}} \right)}{\left( \frac{16156 (49)^{-11}}{14607 (\pi^2)} \right)}$$

$$\text{second} \equiv \frac{\left( \frac{G^{\frac{1}{2}} R^{\frac{1}{2}} w^{\frac{1}{2}}}{c^3 N^{\frac{1}{2}}} \right)}{\left( \frac{13797 (49)^{-61}}{80786 (\pi^2)} \right)} = \frac{\left( \frac{G^{\frac{1}{2}} h^3 N^{\frac{5}{2}}}{R^{\frac{5}{2}} w^{\frac{5}{2}}} \right)}{\left( \frac{36295 (49)^{-59}}{42796 (\pi^2)} \right)} = \frac{\left( \frac{F}{A N} \right)}{\left( \frac{24578 (49)^{-27}}{24925 (\pi^2)} \right)}$$

$$\text{ampere} \equiv A = \frac{\left( \frac{c^3 F}{G^{\frac{1}{2}} N^{\frac{1}{2}} R^{\frac{1}{2}} w^{\frac{1}{2}}} \right)}{\left( \frac{37801 (49)^{35}}{32504 (\pi^2)} \right)} = \frac{\left( \frac{F R^{\frac{5}{2}} w^{\frac{5}{2}}}{h^3 G^{\frac{1}{2}} N^{\frac{7}{2}}} \right)}{\left( \frac{12849 (49)^{32}}{11051 (\pi^2)} \right)}$$

$$\text{kelvin} \equiv \frac{\left( \frac{c^2 N^{\frac{1}{2}} w^{\frac{1}{2}}}{G^{\frac{1}{2}} R^{\frac{1}{2}}} \right)}{\left( \frac{33213 (49)^{46}}{21383 (\pi^2)} \right)} = \frac{\left( \frac{R^{\frac{3}{2}} w^{\frac{5}{2}}}{G^{\frac{1}{2}} h^2 N^{\frac{3}{2}}} \right)}{\left( \frac{77009 (49)^{44}}{49587 (\pi^2)} \right)} = \frac{\left( \frac{A^{\frac{2}{3}} N^{\frac{5}{6}} w^{\frac{5}{6}}}{G^{\frac{1}{6}} F^{\frac{2}{3}} R^{\frac{1}{6}}} \right)}{\left( \frac{55454 (49)^{23}}{67355 (\pi^2)} \right)}$$

$$\begin{aligned}
\text{mole} &\equiv \frac{\left(\frac{A^2 G R w}{c^6 F^2}\right)}{\left(\frac{47024}{16859} \left(\frac{49}{\pi^2}\right)^{-105}\right)} = \frac{\left(\frac{A^{\frac{2}{7}} h^{\frac{6}{7}} G^{\frac{1}{7}}}{F^{\frac{2}{7}} R^{\frac{5}{7}} w^{\frac{5}{7}}}\right)}{\left(\frac{47506}{16529} \left(\frac{49}{\pi^2}\right)^{-44}\right)} = \frac{\left(\frac{1}{N}\right)}{\left(\frac{19345}{5128} \left(\frac{49}{\pi^2}\right)^{-35}\right)} \\
\text{joule} &\equiv \frac{\left(c^2 \sqrt{\frac{R w}{G N}}\right)}{\left(\frac{61294}{31011} \left(\frac{49}{\pi^2}\right)^{13}\right)} = \frac{\left(\frac{R^{\frac{5}{2}} w^{\frac{5}{2}}}{G^{\frac{1}{2}} h^2 N^{\frac{5}{2}}}\right)}{\left(\frac{79215}{40084} \left(\frac{49}{\pi^2}\right)^{11}\right)} = \frac{\left(\frac{A^{\frac{2}{3}} R^{\frac{5}{6}} w^{\frac{5}{6}}}{F^{\frac{2}{3}} G^{\frac{1}{6}} N^{\frac{1}{6}}}\right)}{\left(\frac{46818}{9001} \left(\frac{49}{\pi^2}\right)^{-11}\right)} \\
\text{newton} &\equiv \frac{\left(\frac{c^4}{G}\right)}{\left(\frac{20057}{11502} \left(\frac{49}{\pi^2}\right)^{63}\right)} = \frac{\left(\frac{R^4 w^4}{G h^4 N^4}\right)}{\left(\frac{29529}{16939} \left(\frac{49}{\pi^2}\right)^{59}\right)} = \frac{\left(\frac{A^{\frac{4}{3}} N^{\frac{2}{3}} R^{\frac{2}{3}} w^{\frac{2}{3}}}{G^{\frac{1}{3}} F^{\frac{4}{3}}}\right)}{\left(\frac{27457}{11288} \left(\frac{49}{\pi^2}\right)^{16}\right)} \\
\text{volt} &\equiv \frac{\frac{c^2}{F} \sqrt{\frac{N R w}{G}}}{\left(\frac{123533}{61630} \left(\frac{49}{\pi^2}\right)^{40}\right)} = \frac{\left(\frac{R^{\frac{5}{2}} w^{\frac{5}{2}}}{F G^{\frac{1}{2}} h^2 N^{\frac{3}{2}}}\right)}{\left(\frac{17001}{8483} \left(\frac{49}{\pi^2}\right)^{38}\right)} = \frac{\left(\frac{A^{\frac{2}{3}} N^{\frac{5}{6}} R^{\frac{5}{6}} w^{\frac{5}{6}}}{G^{\frac{1}{6}} F^{\frac{5}{6}}}\right)}{\left(\frac{63427}{59698} \left(\frac{49}{\pi^2}\right)^{17}\right)} \\
\text{telsa} &\equiv \frac{\left(\frac{c^3 N}{F G}\right)}{\left(\frac{42009}{31756} \left(\frac{49}{\pi^2}\right)^{78}\right)} = \frac{\left(\frac{R^3 w^3}{F G h^3 N^2}\right)}{\left(\frac{29033}{21952} \left(\frac{49}{\pi^2}\right)^{75}\right)} = \frac{\left(\frac{A N^{\frac{3}{2}} R^{\frac{1}{2}} w^{\frac{1}{2}}}{G^{\frac{1}{2}} F^2}\right)}{\left(\frac{69145}{60787} \left(\frac{49}{\pi^2}\right)^{43}\right)} \\
\text{pascal} &\equiv \frac{\left(\frac{c^8 N}{G^2 R w}\right)}{\left(\frac{27211}{20048} \left(\frac{49}{\pi^2}\right)^{163}\right)} = \frac{\left(\frac{R^7 w^7}{G^2 h^8 N^7}\right)}{\left(\frac{40747}{30039} \left(\frac{49}{\pi^2}\right)^{155}\right)} = \frac{\left(\frac{A^{\frac{8}{3}} N^{\frac{7}{3}} R^{\frac{1}{3}} w^{\frac{1}{3}}}{G^{\frac{2}{3}} F^{\frac{8}{3}}}\right)}{\left(\frac{62852}{23799} \left(\frac{49}{\pi^2}\right)^{69}\right)} \\
\text{ohm} &\equiv \frac{\left(\frac{N R w}{c F^2}\right)}{\left(\frac{33056}{19179} \left(\frac{49}{\pi^2}\right)^5\right)} = \frac{\left(\frac{h N^2}{F^2}\right)}{\left(\frac{50497}{29296} \left(\frac{49}{\pi^2}\right)^6\right)} = \frac{\left(\frac{N^{\frac{5}{6}} R^{\frac{5}{6}} w^{\frac{5}{6}}}{A^{\frac{1}{3}} G^{\frac{1}{6}} F^{\frac{5}{6}}}\right)}{\left(\frac{63427}{59698} \left(\frac{49}{\pi^2}\right)^{17}\right)}
\end{aligned}$$

$$\begin{aligned}
\text{henry} &\equiv \frac{\left( \frac{G^{\frac{1}{2}} N^{\frac{1}{2}} R^{\frac{3}{2}} w^{\frac{3}{2}}}{c^4 F^2} \right)}{\left( \frac{49906 \left( \frac{49}{\pi^2} \right)^{-56}}{169543} \right)} = \frac{\left( \frac{G^{\frac{1}{2}} h^4 N^{\frac{9}{2}}}{F^2 R^2 w^2} \right)}{\left( \frac{14381 \left( \frac{49}{\pi^2} \right)^{-52}}{48841} \right)} = \frac{\left( \frac{R^{\frac{5}{6}} w^{\frac{5}{6}}}{A^{\frac{4}{3}} F^{\frac{2}{3}} G^{\frac{1}{6}} N^{\frac{1}{6}}} \right)}{\left( \frac{5816 \left( \frac{49}{\pi^2} \right)^{-9}}{27561} \right)} \\
\text{farad} &\equiv \frac{\left( \frac{F^2 G^{\frac{1}{2}}}{c^2 N^{\frac{3}{2}} R^2 w^{\frac{1}{2}}} \right)}{\left( \frac{9319 \left( \frac{49}{\pi^2} \right)^{-67}}{18943} \right)} = \frac{\left( \frac{F^2 G^{\frac{1}{2}} h^2 N^{\frac{1}{2}}}{R^2 w^2} \right)}{\left( \frac{19031 \left( \frac{49}{\pi^2} \right)^{-65}}{38679} \right)} = \frac{\left( \frac{G^{\frac{1}{6}} F^{\frac{8}{3}}}{A^{\frac{2}{3}} N^{\frac{11}{6}} R^{\frac{5}{6}} w^{\frac{5}{6}}} \right)}{\left( \frac{40483 \left( \frac{49}{\pi^2} \right)^{-44}}{43619} \right)} \\
\text{coulomb} &\equiv \frac{\left( \frac{A^2 G R w}{c^6 F} \right)}{\left( \frac{38137 \left( \frac{49}{\pi^2} \right)^{-97}}{52308} \right)} = \frac{\left( \frac{A^{\frac{2}{7}} F^{\frac{5}{7}} G^{\frac{1}{7}} h^{\frac{6}{7}}}{R^{\frac{5}{7}} w^{\frac{5}{7}}} \right)}{\left( \frac{25410 \left( \frac{49}{\pi^2} \right)^{-36}}{33823} \right)} = \frac{\left( \frac{F}{N} \right)}{\left( \frac{24578 \left( \frac{49}{\pi^2} \right)^{-27}}{24925} \right)} \\
\frac{\text{meter}}{\text{second}} &\equiv \frac{c}{\left( \frac{34373 \left( \frac{49}{\pi^2} \right)^{12}}{25713} \right)} = \frac{\left( \frac{h N}{R w} \right)}{\left( \frac{17758 \left( \frac{49}{\pi^2} \right)^{-11}}{23737} \right)} = \frac{\left( \frac{A^{\frac{1}{3}} G^{\frac{1}{6}} N^{\frac{1}{6}} R^{\frac{1}{6}} w^{\frac{1}{6}}}{F^{\frac{1}{3}}} \right)}{\left( \frac{25934}{11959} \right)} \\
\frac{\text{meter}}{\text{second}^2} &\equiv \frac{\left( c^4 \sqrt{\frac{N}{G R w}} \right)}{\left( \frac{105967 \left( \frac{49}{\pi^2} \right)^{73}}{13538} \right)} = \frac{\left( \frac{R^{\frac{7}{2}} w^{\frac{7}{2}}}{G^{\frac{1}{2}} h^4 N^{\frac{7}{2}}} \right)}{\left( \frac{9463 \left( \frac{49}{\pi^2} \right)^{70}}{6004} \right)} = \frac{\left( \frac{A^{\frac{4}{3}} G^{\frac{1}{6}} N^{\frac{7}{6}} R^{\frac{1}{6}} w^{\frac{1}{6}}}{F^{\frac{4}{3}}} \right)}{\left( \frac{39768 \left( \frac{49}{\pi^2} \right)^{27}}{18083} \right)} \\
\frac{\text{meter}^2 \text{ kilogram}}{\text{second}} &\equiv \frac{\left( \frac{R w}{c N} \right)}{\left( \frac{5431 \left( \frac{49}{\pi^2} \right)^{-48}}{16089} \right)} = \frac{h}{\left( \frac{17837 \left( \frac{49}{\pi^2} \right)^{-47}}{52837} \right)} = \frac{\left( \frac{F^{\frac{1}{3}} w^{\frac{5}{6}} R^{\frac{5}{6}}}{A^{\frac{1}{3}} G^{\frac{1}{6}} N^{\frac{7}{6}}} \right)}{\left( \frac{10300 \left( \frac{49}{\pi^2} \right)^{-36}}{49499} \right)} \\
\frac{\text{meter}^3}{\text{kilogram second}^2} &\equiv \frac{\left( \frac{c^6 F^2}{A^2 N R w} \right)}{\left( \frac{43325 \left( \frac{49}{\pi^2} \right)^{55}}{17492} \right)} = \frac{\left( \frac{F^2 R^5 w^5}{A^2 h^6 N^7} \right)}{\left( \frac{44917 \left( \frac{49}{\pi^2} \right)^{49}}{18143} \right)} = \frac{G}{\left( \frac{8315 \left( \frac{49}{\pi^2} \right)^{-14}}{22542} \right)}
\end{aligned}$$

$$\frac{\text{meter}^3 \text{ kilogram}}{\text{ampere}^2 \text{ second}^4} = \frac{\left(\frac{c^6}{A^2 G}\right)}{\left(\frac{69659 \left(\frac{49}{\pi^2}\right)^{87}}{22354 \left(\pi^2\right)}\right)} = \frac{\left(\frac{N R w}{F^2}\right)}{\left(\frac{35519 \left(\frac{49}{\pi^2}\right)^{17}}{15416 \left(\pi^2\right)}\right)} = \frac{\left(\frac{A^{\frac{2}{5}} h^{\frac{6}{5}} G^{\frac{1}{5}} N^{\frac{12}{5}}}{F^{\frac{12}{5}}}\right)}{\left(\frac{144046 \left(\frac{49}{\pi^2}\right)^4}{48197 \left(\pi^2\right)}\right)}$$

$$\frac{\text{meter}^2 \text{ kilogram}}{\text{kelvin mole second}^2} = \frac{\left(\frac{c^6 F^2}{A^2 G N w}\right)}{\left(\frac{47024 \left(\frac{49}{\pi^2}\right)^{71}}{20761 \left(\pi^2\right)}\right)} = \frac{\left(\frac{A^{\frac{2}{5}} h^{\frac{6}{5}} G^{\frac{1}{5}} N^{\frac{7}{5}}}{F^{\frac{2}{5}} w}\right)}{\left(\frac{7256 \left(\frac{49}{\pi^2}\right)^{-11}}{16583 \left(\pi^2\right)}\right)} = \frac{R}{\left(\frac{22431 \left(\frac{49}{\pi^2}\right)}{13394 \left(\pi^2\right)}\right)}$$

$$\text{meter kelvin} = \frac{\left(\frac{c^6 F^2}{A^2 G N R}\right)}{\left(\frac{24447 \left(\frac{49}{\pi^2}\right)^{66}}{10267 \left(\pi^2\right)}\right)} = \frac{\left(\frac{A^{\frac{2}{5}} h^{\frac{6}{5}} G^{\frac{1}{5}} N^{\frac{7}{5}}}{F^{\frac{2}{5}} R}\right)}{\left(\frac{31527 \left(\frac{49}{\pi^2}\right)^{-16}}{68539 \left(\pi^2\right)}\right)} = \frac{w}{\left(\frac{15199 \left(\frac{49}{\pi^2}\right)^{-3}}{42861 \left(\pi^2\right)}\right)}$$

Key:

$$\left(\frac{c^6 F^2}{A^2 G N R w}\right)^{\frac{1}{6}} = \left(\frac{49}{\pi^2}\right)^9 \frac{\pi^{\frac{7}{12}} \cdot 5^{\frac{5}{2}}}{\zeta(3)^2}$$

$$\left(\frac{F^2 R^5 w^5}{A^2 G h^6 N^7}\right)^{\frac{1}{6}} = \left(\frac{49}{\pi^2}\right)^{13} \frac{2^{\frac{2}{7}}}{5^2 \pi^{\frac{7}{12}}}$$

$$\left(\frac{c^3 F^2 R^2 w^2}{A^2 G h^3 N^4}\right)^{\frac{1}{3}} = \left(\frac{49}{\pi^2}\right)^{22} \frac{2^{\frac{2}{7}} \cdot 5^{\frac{1}{2}}}{\zeta(3)^2}$$

$$\left(\frac{c h N}{R w}\right) = \frac{\pi^{\frac{55}{6}} \cdot 5^{\frac{9}{2}}}{2^{\frac{2}{7}} \cdot 7^8 \cdot \zeta(3)^2} \approx \left(\frac{49}{\pi^2}\right)$$