

The Planck Constants

Represent Powers of the Speed of Light *in vacuo*

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*A Table of Random Coincidences or Slight of Hand:
The Planck Constants Relational to Powers of c, the Speed of Light*

| <i>Planck Unit:</i> | = | <i>Numerical Value Given</i> | <i>Power of c</i> |
|--------------------------------|---|----------------------------------|--|
| Speed of light in vacuum [c] | = | 299792458 | (exact) |
| Natural Unit of Velocity | = | 299792458 | $c^1 = 2.99792458$ |
| Kilogram-Joule relation | = | 8.987551787 | $c^2 = 8.987551787$ |
| Planck length | = | 1.616252 | $c^3 = 2.694400242$ |
| ... | | | |
| Planck force | = | 1.21027 | $c^5 = 2.421606171$ <i>halves to...</i> <u>1.210803086</u> |
| ... | | | |
| Planck mass | = | 2.17644 | $c^7 = 2.716431087$ |
| Planck momentum | = | 6.52485 | $c^8 = 6.524776252$ |
| Planck energy | = | 1.9561 | $c^9 = 1.956078711$ |
| ... | | | |
| Planck current | = | 3.4789 | $c^{106} = 3.491359023$ |
| Planck voltage | = | 1.04295 | $c^{107} = 1.046683103$ |
| ... | | | |
| Planck area | = | 2.61223 | $c^{133} = 2.613084714$ |
| ... | | | |
| Planck volume | = | 4.22419 | $c^{137} = 2.110747585$ <i>doubles to...</i> <u>4.22149517</u> |

Students need to question the theoretical basis for choosing fractal numerical values of the powers of *c*, the speed of light in vacuo, in order to represent the numerical values in the Planck Units.