**Foundation Science A Formula Sheet**

**Physical Constants**

|  |  |
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| Acceleration due to gravity |  |
| Speed of light in free space |  |
| Permittivity of free space |  |
| Coulomb’s Constant |  |
| Permeability of free space |  |
| Charge of an electron |  |
| Mass of an electron |  |
| Mass of a proton |  |
| Density of water |  |
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**Formulae**

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| Impulse |  |
| Hooke’s law |  |
| Elastic potential energy |  |
| Centripetal acceleration |  |
| Angular velocity |  |
| Time period of simple harmonic motion |  |
| Hydrostatic pressure |  |
| Bernoulli equation |  |
| Coulomb’s law |  |
| Gauss’s Law |  |
| Electric Potential |  |
| Electric potential energy |  |
| Charging capacitor |  |
| Magnetic force |  |
| Magnetic field of a straight wire |  |
| Magnetic field of a solenoid |  |
| Magnetic Flux |  |
| Faraday’s law |  |
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