**Stage 1 Physics Formula Sheet**

|  |  |
| --- | --- |
| **Topic 1: Linear Motion and Forces** | **Topic 4: Energy and Momentum** |
|  |  |  |  |
| **Topic 2: Electric Circuits** | **Topic 5: Waves** |
|  |  |  |  |
| **Topic 3: Heat** | **Topic 6: Nuclear Models and Radioactivity** |
| Q = mL |  |  |  |
| **Physical constants** |  |
| Acceleration due to gravity at the surface of the Earth: Speed of light in a vacuum:Charge of an electron C  |

|  |
| --- |
| **Table of prefixes**  |
| *tera* | *T* | 1012 |
| *giga* | *G* | 109 |
| *mega* | *M* | 106 |
| *kilo* | *k* | 103 |
| *centi* | *c* | 10-2 |
| *milli* | *m* | 10-3 |
| *micro* | *μ* | 10-6 |
| *nano* | *n* | 10-9 |
| *pico* | *p* | 10-12 |
| *Femto* | *f* | 10-15 |

|  |
| --- |
| **Symbols of common quantities**  |
| *wavelength* | ** | *heat* | *Q* |
| *force* | *F* | *specific heat capacity* | *c* |
| *charge* | *q* | *latent heat capacity* | *L* |
| *mass* | *m* | *power* | *P* |
| *work done* | *W* | *period*  | *T* |
| *momentum* | *p* | *frequency* | *f* |
| *current* | *I* | *atomic number* | *Z* |
| *resistance* | *R* | *mass number* | *A* |
| *potential difference* | *V* | *number of neutrons* | *N* |