Physics PH3 Equations Sheet

| $s=v \times t$ |  | distance <br> speed <br> time |
| :---: | :---: | :---: |
| $\text { refractive index }=\frac{\sin i}{\sin r}$ |  | angle of incidence angle of refraction |
| $\text { magnification }=\frac{\text { image height }}{\text { object height }}$ |  |  |
| $P=\frac{1}{f}$ | P | power focal length |
| refractive index $=\frac{1}{\sin c}$ | c | critical angle (Higher Tier only) |
| $T=\frac{1}{f}$ | $T$ | periodic time frequency |
| $M=F \times d$ | M $F$ d | moment of the force <br> force <br> perpendicular distance from the line of action of the force to the pivot |
| $P=\frac{F}{A}$ | P | pressure <br> force cross-sectional area |
| $\frac{V_{p}}{V_{\mathrm{s}}}=\frac{n_{\mathrm{p}}}{n_{\mathrm{s}}}$ |  | potential difference across the primary coil potential difference across the secondary coil number of turns on the primary coil number of turns on the secondary coil |
| $V_{p} \times I_{p}=V_{s} \times I_{s}$ |  | potential difference across the primary coil current in the primary coil potential difference across the secondary coil current in the secondary coil |

