Help with the ‘Relationships sheet’

### Understanding quantities, symbols and units

| **Symbol** | **Quantity** | **Unit & Symbol** |
| --- | --- | --- |
| *a* | acceleration |  | metres per second per second |
| *A* | activity | Bq | becquerels |
| *A* | area |  | square metres |
| *c* | specific heat capacity |  | joules per kilogram per degree Celsius |
| *d* | distance | m | metres |
| *D* | absorbed dose | Gy | grays |
| *E* | energy | J | joules |
| *Eh* | heat energy | J | joules |
| *Ek* | kinetic energy | J | joules |
| *Ep* | potential energy | J | joules |
| *EW* | work done | J | joules |
| *f* | frequency | Hz | hertz |
| *F* | force | N | newtons |
| *g* | gravitational field strength |  | newtons per kilogram |
| *h* | height | m | metres |
| *H* | equivalent dose | Sv | sieverts |
|  | equivalent dose rate |  | (many possible units) |
| *I* | current | A | amps |
| *l* | specific latent heat |  | joules per kilogram |
| *m* | mass | kg | kilograms |
| *N* | Number of radioactive nuclei decaying |  | (no units) |
| *p* | pressure | Pa | pascals |
| *P* | power | W | watts |
| *Q* | charge | C | coulombs |
| *R* | resistance | Ω | ohms |
| *RT* | total resistance | Ω | ohms |
| *s* | displacement | m | metres |
| *t* | time | s | seconds |
| *T* | period | s | seconds |
| *T* | temperature | K | kelvin |
| *ΔT* | change in temperature |  | degrees Celsius |
| *u* | initial velocity |  | metres per second |
| *v* | velocity (or final velocity) |  | metres per second |
| $$\overbar{v}$$ | average velocity |  | metres per second |
| *V* | volume |  | metres cubed |
| *V* | voltage | V | volts |
| *Vs* | supply voltage | V | volts |
| *W* | weight | N | newtons |
| *λ* | wavelength | m | metres |
| *ωR* | radiation weighting factor |  | (no units) |