### Key Equations

|  |  |
| --- | --- |
| Work done by a force over an infinitesimal displacement |  |
| Work done by a force acting along a path from *A* to *B* |  |
| Work done by a constant force of kinetic friction |  |
| Work done going from *A* to *B* by Earth’s gravity, near its surface |  |
| Work done going from *A* to *B* by one-dimensional spring force |  |
| Kinetic energy of a non-relativistic particle |  |
| Work-energy theorem |  |
| Power as rate of doing work |  |
| Power as the dot product of force and velocity |  |