# Equations to recall and apply

## For GCSE (9-1) Combined Science A or GCSE (9-1) Physics A (Gateway Science), you will need to know these equations:

|  | **Mathematical learning outcomes  Recall and apply** | **Symbolic equation  (optional)** |
| --- | --- | --- |
|  |  |  |
|  | distance travelled |  |
|  |  |  |
|  |  |  |
|  |  |  |
| **HT\*** |  |  |
|  | (along the line of action of the force) |  |
|  |  |  |
|  | force exerted by a spring |  |
|  | gravitational force |  |
|  | gravitational potential energy |  |
|  | charge flow |  |
|  | potential difference |  |
|  | energy transferred |  |
|  | power |  |
|  | power |  |
|  | energy transferred |  |
|  | wave speed |  |
|  |  |  |

## For GCSE (9-1) Physics A (Gateway Science), you will also need to know these equations:

|  | **Mathematical learning outcomes  Recall and apply** | **Symbolic equation  (optional)** |
| --- | --- | --- |
|  |  |  |
|  | (normal to direction of the force) |  |

\* **HT** indicates this equation is required for Higher Tier only



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