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| **Unit 1: Energy** |
| **Equations to Learn** |  |
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| **Equations given in the exam** |  |
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| **Unit 2: Electricity** |
| **Equations to Learn** |  |
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|  |  |
| total resistance = resistance of component 1 + resistance of component 2 |  |
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\* Higher tier only

^ Separate Physics only

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| **Unit 3: Particle Model of Matter** |
| **Equations to Learn** |  |
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| **Equations given in the exam** |  |
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AQA GCSE Physics – Equations & Formulae

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| **Unit 6: Waves** |
| **Equations to Learn** |  |
| wave speed = frequency × wavelength |  |
| **Equations given in the exam** |  |
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| **Unit 7: Magnetism and Electromagnetism** |
| **Equations given in the exam** |  |
| \* Force = magnetic flux density × current ×  length of conductor in magnetic field |  |
|  |  |
| \* ^ p.d across primary × current in primary =  p.d. across secondary x current in secondary |  |
| **Unit 5: Forces** |
| **Equations to Learn** |  |
|  |  |
|  |  |
| force = spring constant × extension |  |
| moment of a force = force × distance  (perpendicular to the direction of the force) |  |
|  |  |
| distance travelled = speed × time |  |
|  |  |
| resultant force = mass × acceleration |  |
| \* momentum = mass × velocity |  |
| **Equations given in the exam** |  |
| \* ^ Pressure = height of column × density of liquid × gravitational field strength |  |
| ^ (final velocity)2 – (initial velocity)2 = 2 × acceleration × distance |  |
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| **Unit 4: Atomic Structure & Unit 8: Space** |
| There are no equations in these sections of the course |