<table>
<thead>
<tr>
<th></th>
<th>Equation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>( p = h \rho g )</td>
<td>Pressure due to a column of liquid = height of column ( \times ) density of liquid ( \times ) gravitational field strength (g)</td>
</tr>
<tr>
<td>2</td>
<td>( v^2 - u^2 = 2a \Delta s )</td>
<td>(final velocity)(^2) – (initial velocity)(^2) = 2 \times ) acceleration ( \times ) distance</td>
</tr>
<tr>
<td>3</td>
<td>( F = \frac{m \Delta v}{\Delta t} )</td>
<td>Force = ( \frac{\text{change in momentum}}{\text{time taken}} )</td>
</tr>
<tr>
<td>4</td>
<td>( E_e = \frac{1}{2} k e^2 )</td>
<td>Elastic potential energy = ( 0.5 \times ) spring constant ( \times ) (extension)(^2)</td>
</tr>
<tr>
<td>5</td>
<td>( \Delta E = m c \Delta \theta )</td>
<td>Change in thermal energy = ( \text{mass} \times ) specific heat capacity ( \times ) temperature change</td>
</tr>
<tr>
<td>6</td>
<td>( T = \frac{1}{f} )</td>
<td>Period = ( \frac{1}{\text{frequency}} )</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Magnification = ( \frac{\text{image height}}{\text{object height}} )</td>
</tr>
<tr>
<td>8</td>
<td>( F = B I l )</td>
<td>Force on a conductor (at right angles to a magnetic field) carrying a current = magnetic flux density ( \times ) current ( \times ) length</td>
</tr>
<tr>
<td>9</td>
<td>( E = m L )</td>
<td>Thermal energy for a change of state = ( \text{mass} \times ) specific latent heat</td>
</tr>
<tr>
<td>10</td>
<td>( \frac{V_p}{V_s} = \frac{n_p}{n_s} )</td>
<td>Potential difference across primary coil = ( \frac{\text{number of turns in primary coil}}{\text{number of turns in secondary coil}} )</td>
</tr>
<tr>
<td>11</td>
<td>( V_p I_p = V_s I_s )</td>
<td>Potential difference across primary coil ( \times ) current in primary coil = potential difference across secondary coil ( \times ) current in secondary coil</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>For gases: pressure ( \times ) volume = constant</td>
</tr>
</tbody>
</table>

Higher Tier only equations are in bold.