Edexcel iGCSE Physics Checklist

Section D17: Work and Power

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| ***I can*** | ☺ | 😐 | ☹ |
| know and use the relationship between work, force and distance moved in the direction of the force:  work done = force × distance moved W = F × d |  |  |  |
| understand that work done is equal to energy transferred |  |  |  |
| know and use the relationship:  gravitational potential energy = mass × g × height GPE = m × g × h |  |  |  |
| know and use the relationship:  kinetic energy = ½ × mass × speed2  KE = ½ × m × v2 |  |  |  |
| understand how conservation of energy produces a link between gravitational potential energy, kinetic energy and work |  |  |  |
| describe power as the rate of transfer of energy or the rate of doing work |  |  |  |
| use the relationship between power, work done (energy transferred) and time taken: power = work done / time taken  P = W / t |  |  |  |
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