Edexcel iGCSE Physics Checklist

Section D17: Work and Power

|  |  |  |  |
| --- | --- | --- | --- |
| ***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 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |