Year 9

1. Speed = Distance / Time
2. Velocity = Displacement / Time
3. Density = Mass / Volume
4. Weight = Mass x Gravity
5. Work = Force x Distance
6. Volume of a regular solid = Length x Width x Height
7. Volume of a irregular solid using a measuring cylinder = V2 - V1
8. Power = Work / Time
9. Pressure = Force / Area
10. Pressure under a liquid = Density x Gravity x Depth
11. Boyle's Law: Pressure of a gas. P1V1 = P2V2
12. Energy = Mass x Specific Heat Capacity x Change in temperature
13. Energy = Mass x Latent Heat
14. Kinetic energy = 1/2 x mass x velocity squared
16. The law of reflection: Angle of incidence = angle of reflection (i=r)
17. Refractive index (n): n = Sin i / Sin r (Snell's law)
18. n = Cv / Cm   Cv = speed of light in air, vacuum. Cm = speed of light in the medium (glass).
19. n = 1 / Sin C   C = critical angle
20. Velocity = frequency x wavelength

Year 10

21. Charge = Current x Time
22. Charge = number of electrons x charge of an electron
23. Adding resistors in series: R = R1 + R2 + R3
24. Adding resistors in parallel: 1/R = 1/R1 + 1/R2 + 1/R3
25. Ohm's Law: voltage = current x resistance
26. Power = current x voltage
27. Electrical energy = current x time x voltage
28. Transformers: Vp / Vs = Np / Ns   p = primary, s = secondary
29. Transformers: Ip x Vp = Is x Vs
30. Acceleration: acceleration = change in velocity / time
31. Moments: moment = force x distance
32. Newton's 2nd law: force = mass x acceleration
33. Hooke's law: force = mass x extension

Good luck homies :)
Imran