Physics Final Exam Matrix

Newtonian Mechanics	36%	Electricity and Magnetism	18%	Waves and Optics	20%
Scalar/Vector	1	Coulombs Law	2	speed of a wave	1
Constant Acceleration	2	Electric Field	1	snell's law	1
velocity-time graph	1	electric field lines	1	transverse/longitudinal waves	1
acceleration of gravity	1	Current	1	constructive/destructive interference	1
acceleration of gravity diagram	1	Ohm's Law	2	amplitude	1
projectile motion	1	Circuits	1	resonance	1
Newton's 1st Law	1	force of magnetism/gravity	1	diffraction	1
Newton's 2nd Law	3	Total	9	doppler effect	1
centripetal force	2			reflection	1
energy	2	Atomic Physics	4%	refraction	1
Momentum	2	Duality of nature	1	Total	10
power	1	Energy levels	1		
Total	18	Total	2	General	2%
				Units	1
				Total	1

Free Response
Calculating energy, frequency, or wavelength of light = 5 points (10%)
Calculating frictional force, net force, and acceleration using Newton's 2nd Law = 5 points (10%)