



A Level Physics Online

Edexcel Physics – 9PH0

Module 12: Gravitational Fields

You should be able to demonstrate and show your understanding of:	Progress and understanding:			
	1	2	3	4
Gravitational Fields				
Gravitational fields are defined as a region where a mass experiences a force				
Gravitational field strength being defined as: $g = \frac{F}{m}$				
Newton's law of universal gravitation: $F = \frac{Gm_1m_2}{r^2}$				
The equation: $g = \frac{Gm}{r^2}$ for gravitational field due to a point mass				
The equation: $V_{grav} = \frac{-GM}{r}$ for a radial gravitational field				
Electric fields and how they compare to gravitational fields				
Newton's laws of motion and universal gravitation and apply these to orbital motion				

