

Name: _____

Date: _____

Universal Law of Gravitation
Group Board Work – Practice Problems

The Subatomic Particles			
Representation	Name	Mass (kg)	Charge (C)
	Proton	1.67×10^{-27}	$+1.602 \times 10^{-19}$
	Neutron	1.67×10^{-27}	0
	Electron	9.11×10^{-31}	-1.602×10^{-19}

$$F = G \frac{m_1 m_2}{r^2}$$

$$g = \frac{GM}{r^2}$$

Problem Set 1:

- 1) The nucleus of the helium atom contains two protons that are separated by about 3.0×10^{-15} m. Find the magnitude of the gravitation force of attraction AND the electrostatic force that each proton exerts on the other. How do they compare?
- 2) The planet Saturn has a mass of 5.67×10^{26} kg and a radius of 6.3×10^7 m. Find the acceleration due to gravity on Saturn. How much gravitational force will be on a 60kg person there?
- 3) The force of attraction between M and m is 26N. What will this force become if m is tripled and the distance between it and M is halved?

Problem Set 2:

- 1) Calculate and compare the magnitude of both the electrostatic force and gravitational force of an electron and proton in a hydrogen atom. We know the electron orbits the proton with a distance of 0.053nm? Look up the mass of electron and proton in the table above.
- 2) Mars Reconnaissance Orbiter (MRO) was a spacecraft designed to study the geology of Mars (Mass 6.4×10^{23} and radius 3.4×10^6 m) and was launched in 2005. MRO's mass was 1,031 kg and it orbited at 400km above Mars surface. What was the a) Force of gravitational attraction on MRO? b) What was the gravitational field strength at its orbiting height?
- 3) The force of attraction between M and m is 30N. What will this force become if M is halved m is tripled and the distance between it and M is doubled?

Problem Set 3:

- 1) Lithium has three protons in its nucleus. The gravitational force between the three protons and one of the orbiting electrons is 1.45×10^{-47} N. What is orbital radius of the electron around the nucleus? Calculate the electrostatic force of attraction between the three protons and 1 electron and compare to the gravitational force. Which force is larger and by how much?
- 2) The force of the Sun on Neptune is 6.68×10^{20} N. This force keeps the planet in Orbit. Knowing that the mass of the Sun is 2.0×10^{30} kg and the orbital distance of Neptune is 4.5×10^9 km from the Sun, what is the mass of Neptune?
- 3) The force of attraction between M and m is 10N. What will this force become if m is halved and the distance between it and M is halved?

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