

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?

Universal Law Of Gravitation Problem Set Answers

Rachel S Tattersall



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Table of Contents Universal Law Of Gravitation Problem Set Answers

1. Understanding the eBook Universal Law Of Gravitation Problem Set Answers
 - The Rise of Digital Reading Universal Law Of Gravitation Problem Set Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Universal Law Of Gravitation Problem Set Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Universal Law Of Gravitation Problem Set Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Universal Law Of Gravitation Problem Set Answers
 - Personalized Recommendations
 - Universal Law Of Gravitation Problem Set Answers User Reviews and Ratings
 - Universal Law Of Gravitation Problem Set Answers and Bestseller Lists

5. Accessing Universal Law Of Gravitation Problem Set Answers Free and Paid eBooks
 - Universal Law Of Gravitation Problem Set Answers Public Domain eBooks
 - Universal Law Of Gravitation Problem Set Answers eBook Subscription Services
 - Universal Law Of Gravitation Problem Set Answers Budget-Friendly Options
6. Navigating Universal Law Of Gravitation Problem Set Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Universal Law Of Gravitation Problem Set Answers Compatibility with Devices
 - Universal Law Of Gravitation Problem Set Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Universal Law Of Gravitation Problem Set Answers
 - Highlighting and Note-Taking Universal Law Of Gravitation Problem Set Answers
 - Interactive Elements Universal Law Of Gravitation Problem Set Answers
8. Staying Engaged with Universal Law Of Gravitation Problem Set Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Universal Law Of Gravitation Problem Set Answers
9. Balancing eBooks and Physical Books Universal Law Of Gravitation Problem Set Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Universal Law Of Gravitation Problem Set Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Universal Law Of Gravitation Problem Set Answers
 - Setting Reading Goals Universal Law Of Gravitation Problem Set Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Universal Law Of Gravitation Problem Set Answers
 - Fact-Checking eBook Content of Universal Law Of Gravitation Problem Set Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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