

Answer Key

Chapter 21 continued

charges on the plates were reversed, the droplet would accelerate downward since all forces then act in the same direction as gravity.

15. A $0.5\text{-}\mu\text{F}$ capacitor is able to store $7.2 \times 10^{-10}\text{ C}$ of charge with an electric field strength of 0.33 N/C between its plates. How far apart are these plates?

$$C = \frac{q}{\Delta V} = \frac{q}{Ed}$$

$$d = \frac{q}{EC} = \frac{7.2 \times 10^{-10}\text{ C}}{(0.33\text{ N/C})(0.5 \times 10^{-6}\text{ F})}$$

$$= 4.4 \times 10^{-3}\text{ m} = 4.4\text{ mm}$$

16. Most capacitors are measured in terms of microfarads, μF , or picofarads, pF , because the unit of capacitance, the farad, is a relatively large unit. Given a 1-F capacitor with plates separated by 1.0 mm and an electric field strength of 1 N/C , calculate the number of electrons resting on the plates of this capacitor.

$$C = \frac{q}{\Delta V} = \frac{q}{Ed}$$

$$q = CE d = (1\text{ F})(1\text{ N/C})(0.0010\text{ m})$$

$$= 0.0010\text{ C}$$

$$n = \frac{q}{q_e} = \frac{0.0010\text{ C}}{1.60 \times 10^{-19}\text{ C}}$$

$$= 6.2 \times 10^{15}\text{ electrons}$$

Chapter 22

1. A 9.0-V battery is connected to a lightbulb, as shown below.



- a. How much power is delivered to the lightbulb?

$$P = IV$$

$$= (0.50\text{ A})(9.0\text{ V})$$

$$= 4.5\text{ W}$$

- b. How much energy will the bulb use in 1 h ?

$$E = Pt$$

$$P = IV$$

$$E = IVt$$

$$= (0.50\text{ A})(9.0\text{ V})(1\text{ h})\left(\frac{60\text{ min}}{1\text{ h}}\right)\left(\frac{60\text{ s}}{1\text{ min}}\right)$$

$$= 16,000\text{ J}$$

- c. How long would the bulb have to stay on to use 1 kWh of energy?

$$E = Pt$$

$$t = \frac{E}{P}$$

$$P = IV$$

$$t = \frac{E}{IV}$$

$$E = (1\text{ kWh})\left(\frac{1000\text{ W}}{1\text{ kW}}\right)\left(\frac{3600\text{ s}}{1\text{ h}}\right)$$

$$= 3.6 \times 10^6\text{ J}$$

$$t = \frac{3.6 \times 10^6\text{ J}}{(0.50\text{ A})(9.0\text{ V})}$$

$$= 800,000\text{ s}$$

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Table of Contents Answer Key To The Physics Classroom

1. Understanding the eBook Answer Key To The Physics Classroom
 - The Rise of Digital Reading Answer Key To The Physics Classroom
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key To The Physics Classroom
 - 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 Answer Key To The Physics Classroom
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key To The Physics Classroom
 - Personalized Recommendations
 - Answer Key To The Physics Classroom User Reviews and Ratings
 - Answer Key To The Physics Classroom and Bestseller Lists

5. Accessing Answer Key To The Physics Classroom Free and Paid eBooks
 - Answer Key To The Physics Classroom Public Domain eBooks
 - Answer Key To The Physics Classroom eBook Subscription Services
 - Answer Key To The Physics Classroom Budget-Friendly Options
6. Navigating Answer Key To The Physics Classroom eBook Formats
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 - Answer Key To The Physics Classroom Compatibility with Devices
 - Answer Key To The Physics Classroom Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key To The Physics Classroom
 - Highlighting and Note-Taking Answer Key To The Physics Classroom
 - Interactive Elements Answer Key To The Physics Classroom
8. Staying Engaged with Answer Key To The Physics Classroom
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key To The Physics Classroom
9. Balancing eBooks and Physical Books Answer Key To The Physics Classroom
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key To The Physics Classroom
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Key To The Physics Classroom
 - Setting Reading Goals Answer Key To The Physics Classroom
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Key To The Physics Classroom
 - Fact-Checking eBook Content of Answer Key To The Physics Classroom
 - 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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