

	SCHOOL	LIGAO COMMUNITY COLLEGE	GRADE LEVEL	Grade 10
	TEACHER		LEARNING AREA	SCIENCE 10
	DATE	DECEMBER 03, 2022	QUARTER	SECOND QUARTER

A.	I. OBJECTIVES		
	A. Content Standards	Explain the operation of a simple electric motor	
	B. Performance Standards	Construct, improve Electric motor	
	C. Most Essential Learning Competencies/ Objectives (Write the LC code for each)	<p><i>Specific Objectives:</i> At the end of the lesson, the students must be able to:</p> <ol style="list-style-type: none"> 1. Enumerate the basic parts of a motor and its function. 2. Discuss how electric motor works. 3. Distinguish the difference between electric motor and generator. 4. Improve electric motor. 	
	II. CONTENT	<p><i>Concepts:</i></p> <ol style="list-style-type: none"> 1. Electric motor converts electrical energy to mechanical energy. 2. The basic components/parts of an electric motor are magnet, commutator, armature, brushes, and battery (voltage source). 3. Electric motor produces mechanical motion by the presence of a magnetic field produce of the moving electron around the magnetic field of a magnet. 4. In electric motor, a force is produced when a wire carrying a current is placed in a magnetic field. 5. Electric motors and generators both work on the principle of electromagnetic induction. 	
	III. LEARNING RESOURCES	Physics books, K-12 Curriculum Guide	
	A. References	https://phet.colorado.edu/	
	1. Teacher's Guide pages	Teachers Manual pg. 121-128	
	2. Learner's Materials pages	Science Learner's Materials pg. 150-161	
	3. Textbook pages	Science Textbook pg. 150-161	
	4. Additional Materials from Learning Resource (LR) portal	SLM, laptop, video, photos of images, etc.	
	5. Other Learning Materials		
	IV. PROCEDURE	Inquiry – Based Formative Assessment in Electricity and Magnetism 2-hrs. time frame	
	A. Reviewing previous lesson or presenting the new lesson	<p>Exit (The activities in this section will occur as time allows, mostly as prior experience from the students)</p> <p>The teacher will recall the prerequisite concept on electricity and magnetism before he proceeds to next lessons (Electric Motor) these concepts are:</p> <ul style="list-style-type: none"> • A conducting wire produce magnetic field when electrical current flow within the wire. • The magnetic field of a current carrying conductor perpendicularly surround in the wire if there is electron flow. • The direction of the current and magnetic field follows the right-hand rule. • The right-hand rule can be used to understand the magnetic field in the current carrying conductor where curl your finger into a half-circle around the wire, they point in the direction of the magnetic field and thumbs points in the direction of the conventional current. • Electromagnetic induction is the production of an electromotive force (emf) in a conductor as a result of a changing magnetic field about the conductor. • Electromagnetic induction can take place when there is a relative motion of a wire and the magnetic field. Method to change magnetic field: <ol style="list-style-type: none"> a. By moving a magnet towards or away from the coil b. By moving the coil into or out of the magnetic field c. By changing the area of a coil/places in the magnetic field d. By rotating the coil relative to the magnet. • The motion of electron in the conductor is a result of the applied force by the magnetic 	

Electricity And Magnetism Lesson Plans

Jin-Ying Zhang



Electricity And Magnetism Lesson Plans:

Electricity And Magnetism Lesson Plans: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year. Electricity And Magnetism Lesson Plans : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Electricity And Magnetism Lesson Plans : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pappen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Electricity And Magnetism Lesson Plans

1. Understanding the eBook Electricity And Magnetism Lesson Plans
 - The Rise of Digital Reading Electricity And Magnetism Lesson Plans
 - Advantages of eBooks Over Traditional Books
2. Identifying Electricity And Magnetism Lesson Plans
 - 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 Electricity And Magnetism Lesson Plans
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electricity And Magnetism Lesson Plans
 - Personalized Recommendations
 - Electricity And Magnetism Lesson Plans User Reviews and Ratings
 - Electricity And Magnetism Lesson Plans and Bestseller Lists
5. Accessing Electricity And Magnetism Lesson Plans Free and Paid eBooks
 - Electricity And Magnetism Lesson Plans Public Domain eBooks
 - Electricity And Magnetism Lesson Plans eBook Subscription Services
 - Electricity And Magnetism Lesson Plans Budget-Friendly Options
6. Navigating Electricity And Magnetism Lesson Plans eBook Formats
 - ePub, PDF, MOBI, and More
 - Electricity And Magnetism Lesson Plans Compatibility with Devices
 - Electricity And Magnetism Lesson Plans Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electricity And Magnetism Lesson Plans
 - Highlighting and Note-Taking Electricity And Magnetism Lesson Plans
 - Interactive Elements Electricity And Magnetism Lesson Plans
8. Staying Engaged with Electricity And Magnetism Lesson Plans

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Electricity And Magnetism Lesson Plans
- 9. Balancing eBooks and Physical Books Electricity And Magnetism Lesson Plans
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electricity And Magnetism Lesson Plans
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electricity And Magnetism Lesson Plans
 - Setting Reading Goals Electricity And Magnetism Lesson Plans
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electricity And Magnetism Lesson Plans
 - Fact-Checking eBook Content of Electricity And Magnetism Lesson Plans
 - 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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