CATCH-UP FRIDAYS TEACHING GUIDE

(FOR VALUES, PEACE, AND HEALTH ED)

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I. General Overview			
Catch-up Subject:	SCIENCE	**Grade Level:**	V
Quarterly Theme:	Ways of Expressing Love	**Sub-theme:**	Ways of Expressing Love
Time:	1:00 – 2:00 PM (Science)	**Date:**	MARCH 22, 2024
II. Session Outline			
Session Title:	Electricity Can be Used to produce Magnets		
Session Objectives:	The learners demonstrate understanding a simple DC circuit and the relationship between electricity and magnetism in electromagnets.		
Key Concepts:	Electromagnetism		

III. Teaching Strategies

Components	Duration	Activities and Procedures
Introduction and Warm-Up	10 mins	Inside the mystery box the pupil will guess the correct answer written in a strip of paper about the important or ideal material in producing a good electromagnet. It is the core around which the wire is coiled _____. (nail) It supplies electric current _____. (dry cell) It is the conductor where the current flow _____. (wire)
Concept Exploration	15 mins	Do you have toy car at home? Have you experienced to play Tamiya toy car? What makes it move? (The teacher may also show a Tamiya toy car and let pupils see the motor that makes Tamiya move)
Valuing	5 mins	Why are electromagnets very important? How are electromagnets used in communication?
Group Activity	25 mins	Group Activity: "Constructing an Electromagnet" Approach: Inquiry-based Strategy: Knowledge-Building community model Activity: EIBU XVI. Problem: How will you construct an electromagnet? XVII. Materials: 1.5V battery, electric wires, an iron bar or a big nail, paper clips, thumbtacks and other small metallic objects XVIII. Procedures: 8. Wind the electric wire 10-15 times around the iron bar or nail. Attach one end of the wire to the positive terminal of the battery and the other end to the negative terminal to complete the

		circuit. 9. See how your electromagnet works! Put it near some paper clips, thumbstacks and other metallic objects. Observe what happens. 10. Disconnect the wire at one end. Observe again the metallic objects. Guide Questions: 1. What are needed in constructing an electromagnet? 2. Where does the strength of an electromagnet come from? 3. What happened if you put the electromagnet near the paper clips, thumbstacks and other metallic objects? 4. What happened after you disconnect the wire? 5. What did you construct?

Prepared By: