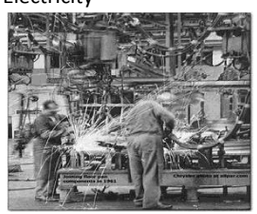
GRADES 1 to 12 DAILY LESSON LOG	School:	DepEdClub.com	Grade Level:	V	
	Teacher:	File created by Ma'am MELLANIE A. TAMARES	Learning Area:	SCIENCE	
	Teaching Dates and Time:	FEBRUARY 12 – 16, 2024 (WEEK 3)	Quarter:	3RD QUARTER	

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
I.OBJECTIVES					
A.Content Standards	"The Learners demonstrate understanding of how different objects Interact with light and sound, heat and electricity"				
B.Performance Standards	The learners should be able to perform the activity sensibly.				
C.Learning Competencies/Objectives	The learners should be able to identify materials which are good conductors of heat and electricity S5FE-IIIc-3	The learners should be able enumerate the characteristics of good conductors of heat and electricity S5FE-IIIc-3	The learners should be able to discuss why some materials are good conductors of heat and electricity S5FE-IIIc-3	The learners should be able to illustrate that some materials are good conductors of heat and electricity S5FE-IIIc-3	The learners should be able to explain the importance of knowing that some materials are good conductors of heat and electricity S5FE-IIIc-3
II.CONTENT	Conductors of Heat and Electricity	Conductors of Heat and Electricity	Conductors of Heat and Electricity	Conductors of Heat and Electricity	Conductors of Heat and Electricity
III.LEARNING RESOURCES					
A.References					
1.Teacher's Guide pages	CG p.	CG p.	CG p.	CG p.	CG p.
2.Learners's Materials pages					
3.Textbook pages	Cyber Science Worktext by Valencia pp233-238	Cyber Science Worktext by Valencia pp.233-238	Cyber Science Worktext by Valencia pp.233-238	Cyber Science Worktext by Valencia pp.233-238	Cyber Science Worktext by Valencia pp233-238
4.Additional materials from learning resource (LR) portal	LRMDS Module 32	LRMDS Module 32	LRMDS Module 32	LRMDS Module 32	LRMDS Module 32
B.Other Learning Resource	Activity sheet, chart, PowerPoint presentation, real objects https://www.youtube.com/watch?v=QFx6GIpsZNI	activity sheet, chart, powerpoint presentation, real objects , pictures	Activity sheet, chart, PowerPoint presentation, real objects, pictures https://www.youtube.com/watch?v=QZPURSF5iH4 https://www.youtube.com/watch?v=QFx6GIpsZNI	activity sheets, bond paper, crayon , pictures.	activity sheets, powerpoint presentation, pictures, real objects, charts, realia
IV.PROCEDURES					
A.Reviewing previous lesson or presenting the new lesson	Through Power point presentation Form four groups. Have a contest in solving these problems. 1. A bird flies toward North Luzon at 72 meters for 8 seconds. What is the speed and velocity of the bird? Speed = _____ Velocity = _____ 2. A car travels South Luzon at 240 kilometers for 6 hours. What is the speed and velocity of the car?	U. Reviewing previous lesson or presenting the new lesson Direction: Identify the materials which are good conductors of heat and electricity. Write them in their proper column. gold , cement , nylon cord , steel , copper silver , cotton , leather , glass book, block of wood aluminum	Let the pupils enumerate the characteristics of materials of good conductor of heat and electricity by completing the organizer below.	Get one strip of paper from the box. Tell whether the object written is a conductor of an insulator. 1. plastic glass 6. rubber 2. spoon made of metal 7. paper plate 3. golden fork 8. coins 4. wooden ladle 9. pencil eraser 5. needle 10.plastic spoon	Look at the different materials and appliances found inside the classroom. Which among these are conductors of heat and electricity? (Let the pupils point the conductor on the part in the appliance/s)

	Speed =_____ Velocity =_____				
B.Establishing a purpose for the lesson	You have learned from our previous lesson that there some materials that can transfer or conduct heat and electricity to another material. Different materials differ in the way they conduct heat. Do you know of materials that are good conductors of heat and electricity?. Lets find out, but before that, do this activity first. Think- Pair- Share Write as many words as you can that can associate with heat and electricity.	Present a toy robot. What is this toy made up of? Suppose you connect some parts of this toy in a electric socket, what would happen? What makes this object a conductor of electricity and even heat? Let's find out. 	We have learned that some materials have characteristics that make them good conductors of heat and electricity. Let us now discuss the reason why by performing the activity	We have learned already that there are materials that allow heat and electricity be transferred to other materials. Can you illustrate now these materials? Let's try	What do you think would happen to the materials around us if there will be no conductors or insulators?.
C.Presenting Examples/ instances of the new lesson	Group Activity: "Which is Which?" J. Problem: What are the materials that are good conductors of heat and electricity? VIII. Materials: ceramic mug with hot tap water, metal spoon, plastic spoon , paper clip, barbeque stick, wooden ladle, aluminum foil (Teacher may add other materials to be used in the activity) IX. Procedure: 5. Arrange the container in one place. 6. Half fill the ceramic mug with hot tap water. Be careful in handling hot objects. 7. Dip the metal spoon, then touch the handle. What do you feel? 8. Do the same with other materials. 9. What materials conduct heat? Which do not? 6 .Record your observation on the data below	Collaborative Strategy: Jigsaw Approach Activity : TDAR Group Activity: "What Made Me?" XI. Problem: What are the characteristics of good conductors? XII. Materials: pictures of metal chains, iron rod, carpet, steel gate activity sheet XIII. Procedures: 4. Look close at the picture of some materials. 5. Identify each one of them. 6. What materials are they made of? 7. Enumerate the characteristics of good conductors by answering the following questions. Pictures 	Brainstorming In a small group , let the pupils engage in an open discussion. Remind them that no idea is "silly". All ideas should be respectfully heard. (Pupils can refer to the activity done in the previous lesson Group I "Let's Talk and Discuss" Based from yesterday's activity, why are some materials good conductors of heat and electricity? Group II " Read and Discuss" Read the topic about" Characteristics of Good Conductors" (Cyber Science pages 236- 237) Discuss briefly how heat and electricity flow through Metals. Note: Refer to Background Information for Teacher Group III " Observe and Discuss"	a. Setting the Standards for doing the activity b. Preparation of Materials c. Activity Proper "Let's Make It" 1. In a bond paper draw a picture of household appliance. 2. Color your work to make it realistic 3. Label the parts of the appliances that are conductors of electricity d. Prepare a Scoring Rubric for the Activity 	Approach : Collaborative Strategy: Jigsaw Activity: TDAR Group Activity "My Importance" I. Problem: Why are good conductors of heat and electricity important? II. Materials: pictures of different materials, activity sheets III. Procedure: 1. Look at the pictures of different conductors of heat and Electricity 

Materials that conduct heat (Conductor)

Materials that do not conduct heat (Insulator)

1.

2.

3.

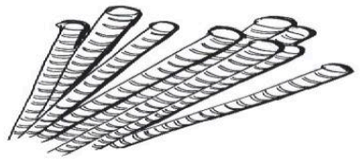
6. Guide Questions:

1. Based from the activity, do all materials conduct heat?

2. How do you call materials/ objects that conduct heat?

3. Can materials that conduct heat also be a good conductor of electricity? Why?

Conclusion:



XIV. Data and Observation Questions:

3. What is the object in picture A made of?_____

4. What is the object in picture B. made of?_____

5. What is the object in picture C made of?_____

6. What is the object in picture D made of?_____

7. To what phase of matter do the objects belong?_____

8. How do the objects differ?_____

9. Which objects have similar characteristics?_____

8. What are the characteristics of matter in each object?

Write the corresponding letter of the picture on the property that describes the object.

_____a. hard and can be drawn into fine wires

_____b. hard and can be hammered into a flat thin sheet

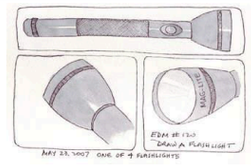
_____c. can be heated without burning

_____d. can develop rust after exposure to rain

Look at the objects in the pictures. (kitchen utensil) (metal chain)

1. How are these materials alike?

2. Why are metals good conductors of heat and electricity?



		_____e. can burn and produce heat 9. Which objects can allow heat and electricity to flow without burning? _____ 10. What are the characteristics of materials that conduct heat and electricity? XV. Conclusion:			 2. Write the importance of these materials as a good conductor of heat and electricity? 1. Record your observations on the table below Questions. 1. What materials are good conductors of heat and electricity? 2. How is it useful in the hospital? At School? In different factories? At home? XI. Conclusion
D.Discussing new concepts and practicing new skills #1	Group Reporting / Presentation of the Output Sharing of results	Group Reporting / Presentation of the Output Sharing of results	Group Reporting / Presentation of the Output Sharing of results	Group Reporting / Presentation of the Output Sharing of results	Group Reporting / Presentation of the Output Sharing of results
E.Discussing new concepts and practicing new skills #2	Watch video about Conductors and Insulators https://www.youtube.com/watch?v=QFx6GIpsZNI 3. Answer these questions: h. Not all materials conduct heat and electricity, but if they can what do we call these materials? (conductors) Give other examples of good conductors of heat and electricity not mentioned or used in the activity. i. What about materials that do not conduct or transfer heat and electricity, what do we call them? (insulators)	Answer these questions: 1. What common properties of chain metal, iron rod and steel gate a good conductor of heat and electricity?	A video presentation https://www.youtube.com/watch?v=QFx6GIpsZNI 1. Answer these questions: What makes metal a good conductor of heat and electricity?	Answer these questions: 1. What can you say about the activity? 2. Did you follow the instruction given to you in doing the activity? 3. What lesson did you learn from the activity?	Answer these questions: 1. What materials are useful in conducting heat and electricity? 2. In what way are conductors of heat and electricity important?
F.Developing Mastery	Complete the concept map/web by writing an example of conductor in the circle.	Watch video about conductors and insulators https://www.youtube.com/watch?v=QFx6GIpsZNI	Learn more about the characteristics of good conductor of electricity by arranging the scrambled letters in each sentence	Group Activity 1. Form three groups.	Present the following pictures through power point presentation.

		What characteristic of some materials make them good conductor of heat and electricity	1. Metals are good conductor of electricity because of its (YTIVITCUDNOC LAMREHT) 2. Electrons flow easily through (DUCTORSCON) 3. Commonly used metal in electrical wires because of its high conductivity (REPCOP) 4.-5 Our body is also a good conductor of electricity because of the presence of (WTERA and LARENIM).	2. Provide the materials like pencil, pentel pen, crayon and manila paper 3. Do the following activity “My Own Design” In a manila paper illustrate/draw a new bathroom appliance. How would you take electrical safety into consideration? What part of the appliance would you design using materials that are conductors?	Briefly explain the use or importance of these materials as conductor of heat and electricity. Example    
G.Finding Parctical application of concepts and skills in daily living	Your younger brother and sister are playing near the electric socket. They have lots of toys that made up of metal and iron. You knew that these are good conductors of electricity. What should you do to avoid accident that involve electric shock?	To choose the best materials for use in electrical applications, some engineers specialize in understanding the conducting and insulating characteristics of materials. To carry electricity through building, electrical engineers use copper wire. Why?	a. Why are most of the cooking utensils made of metals? b. Why should you not use an iron rod to push a live wire?	Why should you take into consideration some electrical safety using conductors?	What is the importance of copper, silver and other metals in our ways of living? Why are electrical tools often have rubber handles and many electrical wire have a plastic coating?

H.Making generalization and abstraction about the lesson	What materials conduct heat and electricity? d. What is conductor? Insulator?	Based on the activity conducted, what common characteristics do good conductors have?	Background Information for the Teachers It is difficult to observe directly how heat and electricity move through materials because they move through tiny particles of matter called molecules. The molecules are made up of tiniest particles of matter called atoms.. Metals are made up of atoms with free moving electrons. Electrons are the negatively charged particles of atoms that can combine with other electrons. The electrons are loosely arranged, that they can collide and move freely back and forth conducting heat and electricity. Metals make good conductors of heat and electricity because of their electronic particles and also because they tend to be denser so that heat transferred by neighboring atoms in close contact is more efficient. Copper is a metal that is commonly used in electrical wires because of its high conductivity. It is the most common electrical wire that can easily be connected by soldering and clamping. Your body and other non- metallic materials can be conductors of electricity because of the presence of water and minerals.	What should be remembered when you have to illustrate or draw something? Should you submit your work on time?	What is the importance of good conductors of heat and electricity?
I.Evaluating learning	Direction: Identify the materials which are good conductors of heat and electricity. Put a check before the number. _____1. copper wire _____2. plastic _____3. iron _____4. glass _____5. aluminum	Direction: Write the characteristics of materials that make them good conductors of heat and electricity Choose your answer from the box below. Porosity , thermal conductivity , ductility , Malleability , brittleness	Direction: Write TRUE is the statement discus the characteristics of good conductor and FALSE if not. 1. All solid materials can transfer heat and electricity easily. 2. Metals are good conductors of electricity 3. Ductile materials like aluminum and gold are conductors of heat and electricity. 4. Liquid with ions allow heat and electricity to transfer to other materials.	Use Scoring Rubrics for students output Score Description 4 The illustration manifests an outstanding characteristics as to creativity, color blending, concept understanding and completeness of details 3 The illustration manifests very satisfactory characteristics as to creativity, color blending,	Direction: Read each question carefully. Write the letter of the correct answer on the blank before each number. _____1. Which among the following materials is useful in cooking food?. A. metal spoon B. plastic cup B. aluminum casserole D. ceramic mug

			5. Copper is good conductor of electricity because of its high thermal conductivity.	concept understanding and completeness of details 2 The illustration manifests satisfactory characteristics as to creativity, color blending, concept understanding and completeness of details 1 The illustration manifests poor characteristics as to creativity, color blending, concept understanding and completeness of details	_____ 2. Why is electrical wiring usually made from copper? A. Because copper is shiny. B. Because copper conducts electricity. C. Because copper is not magnetic. D. Because copper is strong. _____3. Why is electrical wiring usually covered with a layer of plastic? A. To make it look pretty B. To help electricity flow along the wire C. To make it safe D. To make it strong _____4. The following materials use conductor of heat and electricity to function EXCEPT one. Which is it? A. lighted candle B. lighted electric bulb C. water heater D. washing machine. _____5. The main reason of using aluminum in cooking pans is because A. It is a good conductor of heat. B. It is a good conductor of electricity. C. It has a very high density. D. It is strong.
J.additional activities for application or remediation	Compile a list of materials that are conductors found in the kitchen. Have them create a flyer for the local community that describes which of these items are safe to use around electrical appliances and which are not.	Compile a list of conductor materials found in school. Opposite each material, write the characteristics that make them good conductors of heat and electricity	Explain briefly. 1.Why cooking pots and baking ovens are made of metals ? 2.Why non-metallic materials like silicon and water are also conductors of electricity?	Make a design of your own toy “Robot”. Apply the knowledge you learned about conductors and insulators in designing	Write down some important uses of metal as conductor of heat and electricity in your own home
V.REMARKS					
VI.REFLECTION					
A.No. of learners who earned 80% in the evaluation	___Lesson carried. Move on to the next objective.	___Lesson carried. Move on to the next objective.	___Lesson carried. Move on to the next objective.	___Lesson carried. Move on to the next objective.	___Lesson carried. Move on to the next objective.

	___Lesson not carried. _____% of the pupils got 80% mastery	___Lesson not carried. _____% of the pupils got 80% mastery	___Lesson not carried. _____% of the pupils got 80% mastery	___Lesson not carried. _____% of the pupils got 80% mastery	___Lesson not carried. _____% of the pupils got 80% mastery
B.No.of learners who require additional activities for remediation	___Pupils did not find difficulties in answering their lesson. ___Pupils found difficulties in answering their lesson. ___Pupils did not enjoy the lesson because of lack of knowledge, skills and interest about the lesson. ___Pupils were interested on the lesson, despite of some difficulties encountered in answering the questions asked by the teacher. ___Pupils mastered the lesson despite of limited resources used by the teacher. ___Majority of the pupils finished their work on time. ___Some pupils did not finish their work on time due to unnecessary behavior.	___Pupils did not find difficulties in answering their lesson. ___Pupils found difficulties in answering their lesson. ___Pupils did not enjoy the lesson because of lack of knowledge, skills and interest about the lesson. ___Pupils were interested on the lesson, despite of some difficulties encountered in answering the questions asked by the teacher. ___Pupils mastered the lesson despite of limited resources used by the teacher. ___Majority of the pupils finished their work on time. ___Some pupils did not finish their work on time due to unnecessary behavior.	___Pupils did not find difficulties in answering their lesson. ___Pupils found difficulties in answering their lesson. ___Pupils did not enjoy the lesson because of lack of knowledge, skills and interest about the lesson. ___Pupils were interested on the lesson, despite of some difficulties encountered in answering the questions asked by the teacher. ___Pupils mastered the lesson despite of limited resources used by the teacher. ___Majority of the pupils finished their work on time. ___Some pupils did not finish their work on time due to unnecessary behavior.	___Pupils did not find difficulties in answering their lesson. ___Pupils found difficulties in answering their lesson. ___Pupils did not enjoy the lesson because of lack of knowledge, skills and interest about the lesson. ___Pupils were interested on the lesson, despite of some difficulties encountered in answering the questions asked by the teacher. ___Pupils mastered the lesson despite of limited resources used by the teacher. ___Majority of the pupils finished their work on time. ___Some pupils did not finish their work on time due to unnecessary behavior.	___Pupils did not find difficulties in answering their lesson. ___Pupils found difficulties in answering their lesson. ___Pupils did not enjoy the lesson because of lack of knowledge, skills and interest about the lesson. ___Pupils were interested on the lesson, despite of some difficulties encountered in answering the questions asked by the teacher. ___Pupils mastered the lesson despite of limited resources used by the teacher. ___Majority of the pupils finished their work on time. ___Some pupils did not finish their work on time due to unnecessary behavior.
C.Did the remedial work? No.of learners who have caught up with the lesson	___ of Learners who earned 80% above	___ of Learners who earned 80% above	___ of Learners who earned 80% above	___ of Learners who earned 80% above	___ of Learners who earned 80% above
D.No. of learners who continue to require remediation	___ of Learners who require additional activities for remediation	___ of Learners who require additional activities for remediation	___ of Learners who require additional activities for remediation	___ of Learners who require additional activities for remediation	___ of Learners who require additional activities for remediation
E.Which of my teaching strategies worked well? Why did these work?	___Yes ___No ____ of Learners who caught up the lesson	___Yes ___No ____ of Learners who caught up the lesson	___Yes ___No ____ of Learners who caught up the lesson	___Yes ___No ____ of Learners who caught up the lesson	___Yes ___No ____ of Learners who caught up the lesson
F.What difficulties did I encounter which my principal or supervisor can helpme solve?	___ of Learners who continue to require remediation	___ of Learners who continue to require remediation	___ of Learners who continue to require remediation	___ of Learners who continue to require remediation	___ of Learners who continue to require remediation
G.What innovation or localized materials did used/discover which I wish to share with other teachers?	*Strategies used that work well:* **___Metacognitive Development**: **Examples:** Self assessments, note taking and studying techniques, and vocabulary assignments. **___Bridging**: **Examples:** Think-pair-share, quick-writes, and anticipatory charts.	*Strategies used that work well:* **___Metacognitive Development**: **Examples:** Self assessments, note taking and studying techniques, and vocabulary assignments. **___Bridging**: **Examples:** Think-pair-share, quick-writes, and anticipatory charts.	*Strategies used that work well:* **___Metacognitive Development**: **Examples:** Self assessments, note taking and studying techniques, and vocabulary assignments. **___Bridging**: **Examples:** Think-pair-share, quick-writes, and anticipatory charts.	*Strategies used that work well:* **___Metacognitive Development**: **Examples:** Self assessments, note taking and studying techniques, and vocabulary assignments. **___Bridging**: **Examples:** Think-pair-share, quick-writes, and anticipatory charts.	*Strategies used that work well:* **___Metacognitive Development**: **Examples:** Self assessments, note taking and studying techniques, and vocabulary assignments.

	___**Schema-Building**: **Examples:** Compare and contrast, jigsaw learning, peer teaching, and projects. ___**Contextualization**: **Examples:** Demonstrations, media, manipulatives, repetition, and local opportunities. ___**Text Representation**: **Examples:** Student created drawings, videos, and games. ___**Modeling**: **Examples:** Speaking slowly and clearly, modeling the language you want students to use, and providing samples of student work. ***Other Techniques and Strategies used:*** ___ *Explicit Teaching* ___ Group collaboration ___Gamification/Learning throuh play ___ Answering preliminary activities/exercises ___ Carousel ___ Diads ___ Differentiated Instruction ___ Role Playing/Drama ___ Discovery Method ___ Lecture Method ***Why?*** ___ Complete IMs ___ Availability of Materials ___ Pupils' eagerness to learn ___ Group member's collaboration/cooperation in doing their tasks ___ Audio Visual Presentation of the lesson	___**Schema-Building**: **Examples:** Compare and contrast, jigsaw learning, peer teaching, and projects. ___**Contextualization**: **Examples:** Demonstrations, media, manipulatives, repetition, and local opportunities. ___**Text Representation**: **Examples:** Student created drawings, videos, and games. ___**Modeling**: **Examples:** Speaking slowly and clearly, modeling the language you want students to use, and providing samples of student work. ***Other Techniques and Strategies used:*** ___ *Explicit Teaching* ___ Group collaboration ___Gamification/Learning throuh play ___ Answering preliminary activities/exercises ___ Carousel ___ Diads ___ Differentiated Instruction ___ Role Playing/Drama ___ Discovery Method ___ Lecture Method ***Why?*** ___ Complete IMs ___ Availability of Materials ___ Pupils' eagerness to learn ___ Group member's collaboration/cooperation in doing their tasks ___ Audio Visual Presentation of the lesson	___**Schema-Building**: **Examples:** Compare and contrast, jigsaw learning, peer teaching, and projects. ___**Contextualization**: **Examples:** Demonstrations, media, manipulatives, repetition, and local opportunities. ___**Text Representation**: **Examples:** Student created drawings, videos, and games. ___**Modeling**: **Examples:** Speaking slowly and clearly, modeling the language you want students to use, and providing samples of student work. ***Other Techniques and Strategies used:*** ___ *Explicit Teaching* ___ Group collaboration ___Gamification/Learning throuh play ___ Answering preliminary activities/exercises ___ Carousel ___ Diads ___ Differentiated Instruction ___ Role Playing/Drama ___ Discovery Method ___ Lecture Method ***Why?*** ___ Complete IMs ___ Availability of Materials ___ Pupils' eagerness to learn ___ Group member's collaboration/cooperation in doing their tasks ___ Audio Visual Presentation of the lesson	___**Schema-Building**: **Examples:**Compare and contrast, jigsaw learning, peer teaching, and projects. ___**Contextualization**: **Examples:** Demonstrations, media, manipulatives, repetition, and local opportunities. ___**Text Representation**: **Examples:** Student created drawings, videos, and games. ___**Modeling**: **Examples:** Speaking slowly and clearly, modeling the language you want students to use, and providing samples of student work. ***Other Techniques and Strategies used:*** ___ *Explicit Teaching* ___ Group collaboration ___Gamification/Learning throuh play ___ Answering preliminary activities/exercises ___ Carousel ___ Diads ___ Differentiated Instruction ___ Role Playing/Drama ___ Discovery Method ___ Lecture Method ***Why?*** ___ Complete IMs ___ Availability of Materials ___ Pupils' eagerness to learn ___ Group member's collaboration/cooperation in doing their tasks ___ Audio Visual Presentation of the lesson	___**Bridging**: **Examples:** Think-pair-share, quick-writes, and anticipatory charts. ___**Schema-Building**: **Examples:** Compare and contrast, jigsaw learning, peer teaching, and projects. ___**Contextualization**: **Examples:** Demonstrations, media, manipulatives, repetition, and local opportunities. ___**Text Representation**: **Examples:** Student created drawings, videos, and games. ___**Modeling**: **Examples:** Speaking slowly and clearly, modeling the language you want students to use, and providing samples of student work. ***Other Techniques and Strategies used:*** ___ *Explicit Teaching* ___ Group collaboration ___Gamification/Learning throuh play ___ Answering preliminary activities/exercises ___ Carousel ___ Diads ___ Differentiated Instruction ___ Role Playing/Drama ___ Discovery Method ___ Lecture Method ***Why?*** ___ Complete IMs ___ Availability of Materials ___ Pupils' eagerness to learn ___ Group member's collaboration/cooperation in doing their tasks

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