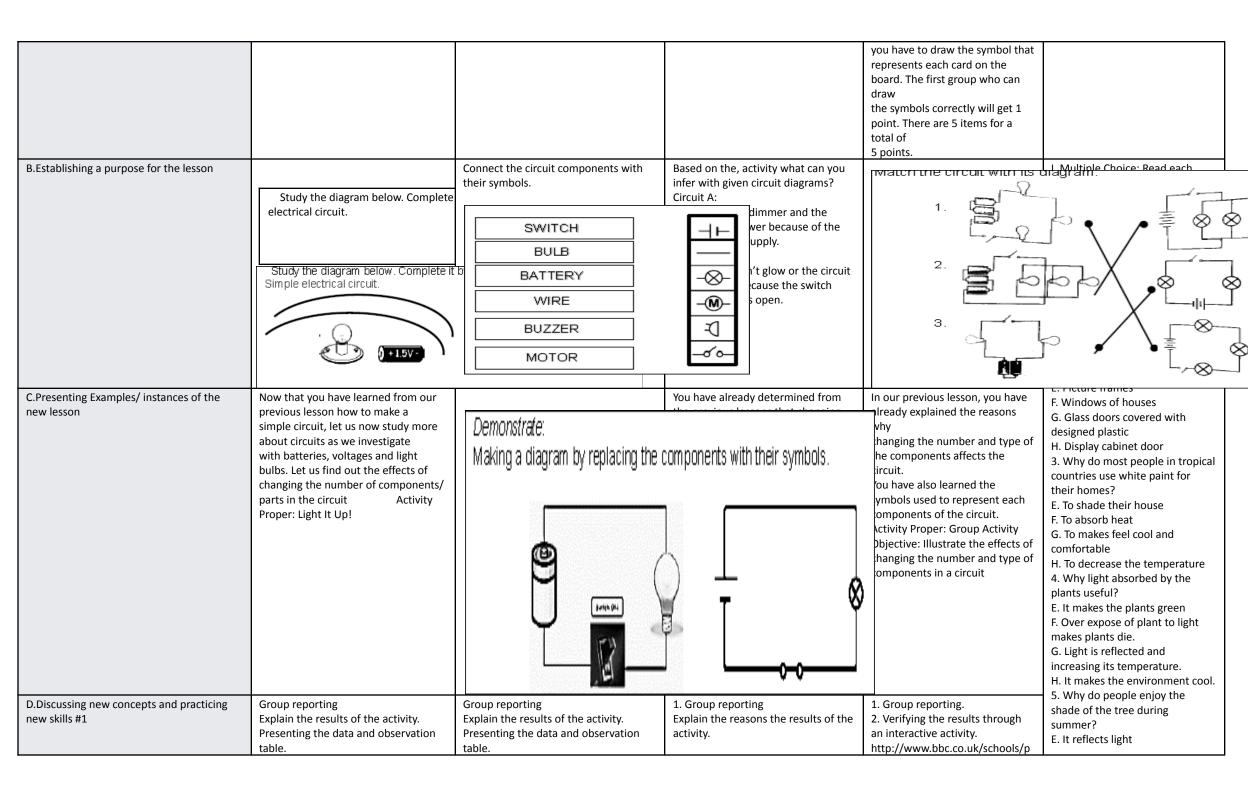


School:	DepEdClub.com	Grade Level:	V
Teacher:	File created by Ma'am EDNALYN D. MACARAIG	Learning Area:	SCIENCE
Teaching Dates and Time:	MARCH 27 - 31, 2023 (WEEK 7)	Quarter:	3 <sup>RD</sup> QUARTER

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	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
I.OBJECTIVES					
A.Content Standards	The learners demonstrate understanding	g of a simple DC circuit			
B.Performance Standards		an unusual tool or device using Electricity	that is useful for home school or commur	nity"	
C.Learning Competencies/Objectives	The learner should be able to determine the effects of changing the number of components in a circuit	The learner should be able to determine the effects of changing the type of components in a circuit	The learner should be able to discuss the effects of changing the number and type of components in a circuit	The learner should be able to illustrate the effects of changing the number and type of components in a circuit	Summativve Test
II.CONTENT	Electricity - Circuits	Electricity - Circuits	Electricity - Circuits	Electricity - Circuits	
III.LEARNING RESOURCES	,	,	,	,	•
A.References					
1.Teacher's Guide pages	CG p.	CG p.	CG p.	CG p.	
2.Learners's Materials pages	i i	<u> </u>		<u>'</u>	
3.Textbook pages	Science Spectrum 5, pp. 191-196	Science Spectrum 5, pages 191-196 Science and Health 5 by Natividad Alegre-Del Prado, pages 177-182	Science Spectrum 5, pages 191-196 Science and Health 5 by Natividad Alegre-Del Prado, pp 177-182	Science Spectrum 5, pp. 191-196 Science and Health 5 by Natividad Alegre-Del Prado, pp. 177-182	
4.Additional materials from learning resource (LR) portal	http://www.sciencekids.co.nz/gamesa ctivities/electricitycircuits.html https://www.superteacherworksheets .com/electricity.html http://www.bbc.co.uk/bitesize/quiz/q 80633759	https://www.scribd.com/doc/1051913 3/Electronic-Components-Symbols-Fun ctions http://www.safekidscalifornia.org/wp-c ontent/uploads/2015/05/Home-Safety- Challenge.png		http://www.bbc.co.uk/schools/p odsmission/electricity/pod.shtml http://www.learningcircuits.co.u k/flash/flashmain.sw	
B.Other Learning Resource	Chart, power point	Chart, power point	Chart, power point	Chart, power point	
IV.PROCEDURES					
A.Reviewing previous lesson or presenting the new lesson	What are the parts / components of an electric circuit? Describe each part.	1. Review What are the effects of changing the number of components in an electric circuit? Increasing the number of the batteries, increases the brightness of a bulb. Increasing the number of bulbs, decreases the brightness Checking of Assignment	-  -  - 	Activity: Game: What's the Symbol? Group the pupils with 6 members	Review previews lesson



		Original File Submitted and Formatted by DepEd Club Member - visit depedclub.com for more	Present the data and observation table 1 & 2	odsmission/electricity/annie02.s htl http://www.learningcircuits.co.u k/flash/flashmain.swf	F. It absorbs light G. It blocks light H. It transmits light 6. A circuit has power supply,
E.Discussing new concepts and practicing new skills #2	1. Teacher's Input:  * If the activity is not enough to draw the concepts, do the Interactive activity for simulation.  http://www.sciencekids.co.nz/gamesa ctivities/electricitycircuits.html	Based on the activities we did, answer the following questions:  1. Does changing the load of a circuit affects the circuit? No, it doesn't.  2. Can unjointed wires make the circuit work? Why? No, because the electric current won't flow in an unjointed wires.  3. What is the function of the switch in a circuit? The switch opens and closes the circuit.  4. Can a circuit work even without a switch? Why? Yes. Because the current can still flow through the wires even without switch.	Analyze each diagram and answer each question. Diagram 1: Can a bulb added in a circuit with twisted wires light up? Explain your answer. Answer: Yes, the bulb will still light up because the circuit has complete parts/components-the power supply, the bulb and wires. Diagram 2: Will the bulb light if you turn on any of the switches? Justify your answer. Answer: Yes, because turning any of the switch closes the circuit where the bulb is connected Diagram 3: Can bulbs A & B still work if you turn off the switch? Defend your answer. Answer: Yes, because even is bulb C will not light, still bulbs A & B is connected in a closed circuit.	Answer the following questions based on the illustrations below.  1. Which circuit is closed?  2. Which circuit is open?  3. Which of the two circuits will work? Explain your answer	load, switch and a  A. Battery C. Wires B. Bulb D. Motor 7. What supplies energy in an electric circuit? A. conductor C. Wire K. Light bulb D. A battery 8. What needs to be done to this circuit so that the lamp lights up? A. Close the switch C. Add a cell and close the circuit B. Add another lamp D. Add a motor and close the switch 9. What component does this circuit symbol represent? A. Bulb C. Cell/battery B. Switch D. Motor 10. What is wrong with this circuit diagram? A. There is no switch B. There are two bulb C. There is only one battery D. There is missing wire 11. What is the function of a power source in a circuit? A. It provides a steady source of electricity B. It
F.Developing Mastery	Which bulbs will light just enough	Complete the following sentences by choosing the correct word from the box below.  1. If the switch is on, the circuit is Therefore, the circuit will work.  2. When the switch is, the circuit is open. Therefore, the circuit won't work.  3. In a circuit with unjointed wires, the motor work.  4. A controls the circuit y opening and closing it.  5. An open circuit is a circuit.	Look at each circuit diagram below. If you think the bulb or bulbs will light, put a check in the box. If you do not think the bulb or bulbs will light, put a cross in it.	Draw the dagram of each circuit layout shown in group activity (1-5)  Answer:  2  3	provides a means through which the circuit can be broken C. It opens and closes the circuit D. It resist the flow of electrons 12. What might happen if wires weren't protected with rubber or plastic? A. The power source will no longer provide a flow of current B. We would be harmed from electric shock C. The circuit would be broken D. The current will not flow 13. In a simple series circuit, why does the bulb light when you close the switch? A. Because the switch produces electricity B. Because closing the switch

G.Finding Parctical application of concepts and skills in daily living	Electricity does a lot of work for us. We use it many times each day. It lights our homes, warms and cools our rooms, and helps us keep them clean. It cooks our food and washes the dishes. It really help us at home and most specially in the kitchen.	Electricity is very useful for us. But improper use of it will be dangerous. Activity: Is it SAFE or NOT? Tell whether each activity in using electricity SAFE or NOT SAFE. Use happy or sad emoji's for your answers.  1. Replacing broken wires or busted bulbs. 2. Turning off the switch when not in use. 3. Check your electrical connection twice a year. 4. Asking your 3 year old brother to turn on or off the switch. 5. Using octopus connection in running your appliances	Give your answer to each situation:  1. How can a motor spin faster?  - Increase the voltage of the battery or add more battery.  2. How can a bulb be made dimmer?  - Use a battery with smaller voltage or add more bulb.	The quantities voltage (battery), current (electroms) and resistance(bulb) are Resistance = voltage.  Resistance = voltage.  Or R= X  voltage.  The symbol for resistance is R, it is measured in ohms (A)  The symbol for voltage is V, it is measured in ohms (A)  The symbol for currents J, R measured in mapners (A)  The symbol for currents J, R measured in mapners (A)  Problem.  Problem.  Problem.  Problem.  Resistance = voltage.  Governing I, R may be a current of 0.3 amperes from a 3 vost battery.  Goutinet I  Solution R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost battery.  Governing I R may be a current of 0.3 amperes from a 3 vost batt	completes the circuit C. Because closing the switch breaks the circuit D. Because the switch provides enough power supply 14. A battery is used to light a bulb as shown. A second bulb is connected by closing switch S. What happens to the bulbs? A. The right bulb goes out; the left bulb lights up. B. The right bulb gets dimmer; both bulbs have the same brightness. C. The right bulb gets brighter; both bulbs have the same brightness.
H.Making generalization and abstraction about the lesson	What are the effects of changing the number of components in a circuit?  More batteries/voltage (power source) makes the bulb glow brightly but too much batteries/voltage (power source) can make the bulb busted.  Adding more bulbs (load) can make the glow dimmer but lessening the bulb (load) will make it glow brighter.  Longer wire makes it hard for the current to flow that is why the bulb glow dimmer.	What are the effects of changing the type of components in a circuit?  Changing the type load with the same power supply does not affect the circuit. It still works.  Unjointed wires does not allow the current to flow that is why the circuit will not work.  Switch opens and closes the circuit but it can still work even without it. Let see if you really understood the lesson by answering the questions.	What have you learned? I learned that § Adding more batteries to a simple circuit will increase the electrical energy, which will make a bulb brighter. § Adding more bulbs to a simple circuit will reduce the electrical energy and make the bulbs dimmer. § Lengthening or twisting the wires in a simple circuit will reduce the electrical energy, as it has further to travel. The extra distance will make the bulb dimmer. § But too much batteries or too much load will make the circuit unusable.	I learned that o The two main ways of increasing the current in an electrical circuit are by increasing the voltage or by decreasing the resistance. § Too many batteries increases the voltage which makes the circuit blow § Too many loads decreases the resistance which makes the current less and not work at all	D. The right bulb stays the same; the left bulb does not light.  15. A battery is used to light two bulbs as shown. What happens to bulb B when bulb A is unscrewed from its socket?  A. Bulb B gets off C. Bulb B's gets lighted still  B. Bulb B gets busted D. Impossible to determine
I.Evaluating learning	Directions: Read each item carefully. Choose the letter of the correct answer.  1. In a simple circuit with long (coiled) wire, 1.5 V and a bulb, why does the bulb gets dimmer? A. Because the power supply is not enough to light the bulb brighter. B. Because the load is too many. C. Because the wire is too long. D. Because the wire is too short. 2. Imagine a simple circuit with one 1.5V battery and one bulb. When the 1.5V battery is replaced with a 3V	Directions: Read each item carefully. Choose the letter of the correct answer.  1. Which statement is correct about electric current powered by a battery? A. It always flow clockwise. B. It gets used up as it goes around the circuit. C. It does not get used up as it goes around the circuit. D. All of the above. 2. What needs to be done to this circuit so that the lamp lights up? a. Close the switch b. Add another bulb/lamp c. Add another wire	Let see if you really understood the lesson.  How bright do you think the bulb will be in these circuits?  Choose the answer from the box.  Bulb break Very dim Medium  1. A Medium  1. A Medium  2. A Medium  3. A Medium  5. A Medium  6. A Medium  6. A Medium  7. A Medium  7. A Medium  8. A Medium  9. A Medium  9. A Medium  1. A M	Analyze the following illustrations and encircle the letter of the circuit in which both bulbs light up?  B. B	

	mastery		mastery	mastery	J
	% of the pupils got 80%	% of the pupils got 80% mastery	% of the pupils got 80%	% of the pupils got 80%	
	Lesson not carried.	Lesson not carried.	Lesson not carried.	Lesson not carried.	
evaluation	next objective.	objective.	next objective.	the next objective.	
A.No. of learners who earned 80% in the	Lesson carried. Move on to the	Lesson carried. Move on to the next	Lesson carried. Move on to the	Lesson carried. Move on to	Г
VI.REFLECTION					П
V.REMARKS		, , , , , , , , , , , , , , , , , , , ,		•	
		bulb and 2 switches (one for each load)		dalandan or sinturis	
		3. A circuit with 2 batteries, a buzzer, a	Also, describe how it could affect	clip, sheet of sandpaper (liha),	
	4. Switch	motor and a switch.	better your life.	steel paper	
	3. Wire	2. A circuit with 2 batteries, a bulb, a	Write how having an electricity could	Christmas lightbulb, clippers,	
	1. Cell/Battery 2. Bulb	1. A circuit with a battery, a buzzer and a switch.	How would you do ordinary things? What would you do for fun?	Materials: copper wire, small	
remediation	circuit components.	circuit components.	What if electricity did not exist?	Objective: Make electricity from dalandan or sinturis.	
J.additional activities for application or	Draw the symbols for the following	Make a circuit diagram for each set of	Creative Writing: Write a reflection.	Home Project: Dalandan Battery	
Ladditional activities for analisation or	D. Nothing has changed.	Make a circuit diagram for soch act of	Croative Writing, White a reflection	Home Dreingt, Delegater Better	
	stays at the same level of brightness.				
	bulbs become brighter. C. The bulbs				
	The bulbs become dimmer. B. The				
	wire to a longer (coiled) thick wire? A.				
	wire in a circuit from a straight short				
	5. What is the effect of changing the				
	uncharged.				
	D. The batteries are used up or				
	properly.				
	C. The batteries are not connected				
	bulb blows.	d. wire, switch, power supply, bulb			
	the bulb's filament and the	c. switch, buzzer, bulb, motor			
	B. Too much electricity flows through	b. buzzer, motor, bulb, power supply			
	flowing in the circuit.	a. bulb, motor, buzzer, switch			
	A. There is not enough electricity	represent?			
	circuit?	5. Which components do these symbols			
	connected across in a simple series	d. It won't work.			
	pieces 3V batteries are both	c. It will get dimmer.			
	4. Why might a bulb busted when 3	b. It will be busted.			
	similar brightness levels.  D. The bulbs in both circuits won't lit.	a. It will stay lit.			
	C. The bulbs in both circuits are of	what will happen to lamp 2?			
	circuit with 3V battery and two bulbs.	4. If lamp 1 is removed from its holder,			
	1.5 V battery and one bulb. B. The	switches are open.			
	the brighter glow? A. The circuit with	d. The lamp can still light up even the			
	3V battery and two bulbs. Which has	c. Switch 1 and 2			
	and one bulb and similar circuit with a	b. Only switch 2			
	3. Imagine a circuit with a 1.5V battery	a. Only switch 1			
	D. Nothing has changed.	make the lamps light?			
	stays at the same level of brightness.	3. Which switch must be closed to			
	The bulb gets dimmer. C. The bulb	switch			
	battery A. The bulb gets brighter. B.	d. Add a cell /battery and close the			1

B.No.of learners who require additional	Pupils did not find difficulties in	Pupils did not find difficulties in	Pupils did not find difficulties in	Pupils did not find difficulties	
activities for remediation	answering their lesson.	answering their lesson.	answering their lesson.	in answering their lesson.	
	Pupils found difficulties in				
	answering their lesson.	answering their lesson.	answering their lesson.	answering their lesson.	
	Pupils did not enjoy the lesson	Pupils did not enjoy the lesson	Pupils did not enjoy the lesson	Pupils did not enjoy the	
	because of lack of knowledge, skills	because of lack of knowledge, skills	because of lack of knowledge, skills	lesson because of lack of	
	and interest about the lesson.	and interest about the lesson.	and interest about the lesson.	knowledge, skills and interest	
	Pupils were interested on the	Pupils were interested on the	Pupils were interested on the	about the lesson.	
	lesson, despite of some difficulties	lesson, despite of some difficulties	lesson, despite of some difficulties	Pupils were interested on	
	encountered in answering the	encountered in answering the	encountered in answering the	the lesson, despite of some	
	questions asked by the teacher.	questions asked by the teacher.	questions asked by the teacher.	difficulties encountered in	
	Pupils mastered the lesson despite	Pupils mastered the lesson despite	Pupils mastered the lesson	answering the questions asked by	
	of limited resources used by the	of limited resources used by the	despite of limited resources used by	the teacher.	
	teacher.	teacher.	the teacher.	Pupils mastered the lesson	
	Majority of the pupils finished	Majority of the pupils finished their	Majority of the pupils finished	despite of limited resources used	
	their work on time.	work on time.	their work on time.	by the teacher.	
	Some pupils did not finish their	Some pupils did not finish their	Some pupils did not finish their	Majority of the pupils	
	work on time due to unnecessary	work on time due to unnecessary	work on time due to unnecessary	finished their work on time.	
	behavior.	behavior.	behavior.	Some pupils did not finish	
				their work on time due to	
				unnecessary behavior.	
C.Did the remedial work? No.of learners	of Learners who earned 80%	of Learners who earned 80% above	of Learners who earned 80%	of Learners who earned 80%	
who have caught up with the lesson	above	or Learners who earned 80% above	above	above	
who have caught up with the lesson	above		above	above	
D.No. of learners who continue to require	of Learners who require	of Learners who require additional	of Learners who require	of Learners who require	
remediation	additional activities for remediation	activities for remediation	additional activities for remediation	additional activities for	
				remediation	
E.Which of my teaching strategies worked	YesNo	YesNo	YesNo	YesNo	
well? Why did these work?	of Learners who caught up the	of Learners who caught up the	of Learners who caught up the	of Learners who caught up	
Evaluation in the last of the	lesson	lesson	lesson	the lesson	
F.What difficulties did I encounter which my	of Learners who continue to				
principal or supervisor can helpme solve?	require remediation	require remediation	require remediation	require remediation	Charles in a search to the state of the stat
G.What innovation or localized materials did	Strategies used that work well:				
used/discover which I wish to share with	Metacognitive Development:				
other teachers?	<b>Examples:</b> Self assessments, note				
	taking and studying techniques, and	taking and studying techniques, and	taking and studying techniques, and	taking and studying techniques,	taking and studying techniques,
	vocabulary assignments.	vocabulary assignments.	vocabulary assignments.	and vocabulary assignments.	and vocabulary assignments.
	Bridging: Examples:				
	Think-pair-share, quick-writes, and	Think-pair-share, quick-writes, and	Think-pair-share, quick-writes, and	Think-pair-share, quick-writes,	Think-pair-share, quick-writes,
	anticipatory charts.	anticipatory charts.	anticipatory charts.	and anticipatory charts.	and anticipatory charts.
				Schema-Building:	Schema-Building: Examples:
				<b>Examples:</b> Compare and contrast,	Compare and contrast, jigsaw

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