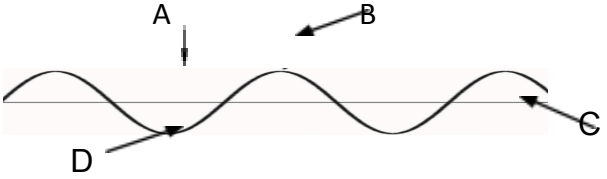
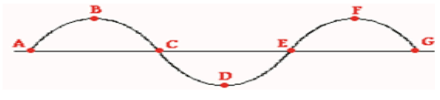
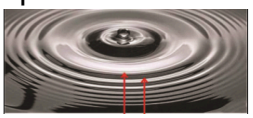
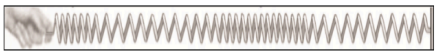
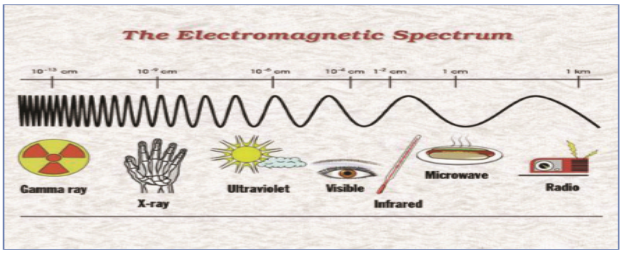
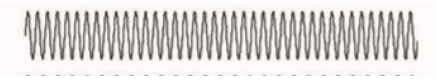
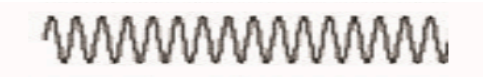
GRADES 1 to 12 DAILY LESSON LOG	School:		Grade Level:	
	Teacher:	Depedtrends.com	Learning Area:	
	Teaching Dates and Time:		Quarter:	

I. OBJECTIVES	
A. Content Standards	The learners demonstrate an understanding of the characteristics of sound
B. Performance Standards	
C. Learning Competencies Write the LC code for each	Describe how organisms produce, transmit, and receive sound of various frequencies (infrasonic, audible, and ultrasonic sound) S7FE-IIIe-9
D. Learning Objectives	
II. CONTENT	Differentiate mechanical from electromagnetic waves. S7FE-IIIc-5
III. LEARNING RESOURCES	WAVES (Mechanical vs. Electromagnetic Waves)
A. References	
1. Teacher's Guide pages	
2. Learner's Materials pages	198-201
3. Textbook pages	197-199
4. Additional Materials from Learning Resource (LR)portal	
B. Other Learning Resources	
IV. PROCEDURES	
A. Reviewing previous lesson or presenting the new lesson (2 mins.) elicit	1. What kind of waves does the rope produce? A. longitudinal waves C. transverse waves B. surface waves D. circular waves 2. Which of the following best describe the movement of a water molecule? It moves___ A. perpendicular to the direction in which the waves travel. B. parallel to the direction in which waves travel. C. in a circular pattern. D. None of the above 3. Longitudinal waves could be produced using a___ A. rope B. water C. ball pen D. coil spring 4. Which is called the crest?  A. Figure A B. Figure B C. Figure C D. Figure D 5. Which of the following is a one half wave length? A. A to E B. A to G C. A to C D. D to G 

B. **Establishing a purpose for the lesson** **(1 min.)** **Engage**	The students will be shown with images of mechanical waves and a chart of electromagnetic spectrum     They will be asked what is/are the differences of mechanical waves from electromagnetic waves.
C. Presenting examples/ instances of the new lesson **Explore** **(2-5 mins.)**	1. The class will be divided into six (6) groups 2. They will perform Activity 3 on Mechanical vs. Electromagnetic Waves on pages 197-199. Students will answer questions.
D. **Discussing new concepts and practicing new skills #1** **Explain** **(15 mins.)**	The assigned reporter for each group will present their collaborative output to the class.
E. Discussing new concepts and practicing new skills#2 **(10 mins.)**	The teacher will facilitate a brief discussion on the students' output.
F. Developing mastery **(Leads to Formative Assessment 3)** **(12 mins.)** **Elaborate**	Describe the relationship between frequency and wavelength of each electromagnetic wave.
G. Finding practical applications of concepts and skills in daily living **(3 mins.)**	Why are ULTRA VIOLET (UV) rays harmful to the skin compared to visible light?
H. Making generalizations and abstractions about the lesson **(3 mins)**	Differentiate mechanical waves from electromagnetic waves
I. Evaluating learning **(8 mins)**	1. Which of the following is a correct statement? A. Mechanical waves can pass through an empty space. B. The waves you created using a rope are concrete examples of electromagnetic waves. C. Mechanical waves require a medium for wave propagation while electromagnetic waves require no material medium for their passage. D. Electromagnetic waves require a medium for wave propagation while magnetic waves require no material medium for their passage. 2. Mechanical waves transport energy from one place to another through___ A. alternately vibrating particles of the medium.

	B. vibrating particles and traveling particles. C. particles traveling with the wave. D. none of the above 3. Which of the following does not require a medium to propagate waves? A. transverse wave C. mechanical wave A. longitudinal wave D. electromagnetic wave For items 4-5  Wave A  Wave B  Wave C 4. Which two waves have the same amplitude but different wavelengths? A. Waves A and B C. Waves A and C B. Waves B and C D. All waves have the same 5. Which wave has the highest frequency? A. Wave A C. Wave C B. Wave B D. All waves have the same
J. Additional activities for application or remediation **(1 min)**	Let the students delve into the internet more information on the kinds of electromagnetic radiation that objects give off.
V. REMARKS	
VI. REFLECTION	
A. No .of learners who earned 80% on the formative assessment	
B. No. of learners who require additional activities for remediation.	
C. Did the remedial lessons work? No. of learners who have caught up with the lesson.	
D. No .of learners who continue to require remediation	
E. Which of my teaching strategies worked well? Why did these work?	
F. What difficulties did I encounter which my principal or supervisor can help me solve?	
G. What innovation or localized materials did I use/discover which I wish to share with other teachers?	

Prepared by:

Checked by

Teacher

School Head

Observed by: