

CLASS-09  
PHYSICAL SCIENCE  
LESSON PLAN  
**CHAPTER: 10 – SOUND**

PERIOD NUMBER	CONCEPTS / TEACHING POINTS	PAGES IN TEXT BOOK		TEACHING PROCEDURE	TEACHING LEARNING MATERIAL	EVALUATION
		FROM	TO			
1.	Sound is a form of energy	162	163	Activity	Stand, Plastic tube, Balloon, Rubber band, Laser light source, Small mirror	What is sound ?
	History of sound			Conversation*	Photos, Video clips of scientists like Hertz, Galileo, Bacon, Pythagoras,..	How can sound be produced ? How sound propagate in air ?
2.	Production of sound Tuning fork	163	164	Activity	Stand, Tuning fork, Rubber hammer, Glass plate, Steel wire	How sound produced ?
						What is the shape of tuning fork ?
						Which part of our body vibrate when we speak ?
3.	Travel of sound	164	165	Conversation	Chart, video clip, Spiral Spring roll	What is compression ?
	Propagation of sound			Activity		Which is transferred when a wave moved ?

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4.	Types of waves	165	166	Activity	Chart, video clip, Spiral Spring roll, Long rope	What is a longitudinal wave ?
	Sound waves are longitudinal			Activity		What is crest ?
5.	Characteristics of sound waves	166	169	Conversation	Chart, Video clips, About Hertz video clip	The distance between successive crest and trough is called .....?
	Wave length – amplitude - frequency			Conversation		What is amplitude ?
6.	Speed of sound wave	169	170	Conversation	Chart, Video clips	What is the speed of light in vacuum ?
	Problems – solutions			Conversation		What is the formula for speed of wave ?
	Sonic boom			Conversation		What is sonic boom ?
7.	Musical sounds	170	172	Conversation	Chart, Video clips	Is Tiger's sound pitch is greater than the Parrot's sound pitch ?
	Pitch – loudness - quality			Conversation		What do you know about decibel ?

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8.	Reflection of sound	172	173	Activity	Apparatus for Reflection of sound (Or) Card board, 2 Hollow plastic tubes of 1 m	Is sound reflects ?
						What is reflection ?
						Where do we observe the reflection of sound ?
9.	Echo	173	174	Conversation	Chart, Video clips	What is meant by echo ?
	Problems - solutions			Conversation		Why is an echo weaker than the original sound ?
				A boy shouted from 132 m from a building. He heard echo after 0.8 seconds. Find the speed of sound ?		
10.	Reverberation	174	175	Conversation	Chart, Video clips	Name one instrument that works on echo ?
	Echo – reverberation - relation			Conversation		What is reverberation ?
				How can we avoid echoes?		
11.	Range of hearing	175	177	Conversation	Chart, Video clips	What are the uses of ultra sounds ?
	Ultra sonic waves			Conversation		
	Ultra sounds - uses			Conversation		
12.	SONAR	177	178	Conversation	Chart, Video clips	SONAR means ?
						In which machine SONAR technology is used ?