7L SOUND

Previous Knowledge	*Pitch would have been discussed when learning a musical instrument.*				
Lesson Number	**Lesson Title**	**Lesson Objectives**	**Content**	**Key words**	**Assessment/Homework**
1	Making Sounds	• How are different sounds made?	• Explain what causes sounds. • Describe how to make louder sounds. • Explain the link between frequency and pitch.	• Amplitude • Pitch • Volume • Frequency	
2	Moving Sounds	• How does sound travel?	• Describe how sound moves through materials • Explain how sounds get quieter over distance •	• Collisions • Amplitude • density.	
3	Line and Scatter Graphs	• What do graphs describe?	• Know how to use scatter graphs to present information. • Describe what line and scatter graphs show. • Identify relationships on a graph.	• Model • Aim • Results • Conclusion • Evaluation • Accuracy • Fairness • Reliability • relationships	Teacher Assessed 15 marks: Drawing graphs.

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4	Detecting Sounds	• How do we detect different sounds?	• Describe parts of the ear and their functions. • Recall animals have different hearing ranges. • Describe how a microphone transfers sound into electrical signal.	• Eardrum • Cochlea • Impulse • energy transfer • Ultrasound • infra-sound • absorption	20 Mark Quiz (Exploring Science)
5	Using Sound	• How do humans and animals use sound?	• Describe some uses of ultrasound. • Explain how sonar and echolocation work.	• Communication • Transmitted • Reflected • Echo • Echolocation • Sonar • ultrasound	
6	Comparing waves	• How are sound waves like water waves?	• Compare longitudinal and transverse waves. • Know the waves can be reflected. • Describe what happens when waves cross and are added together.	• Longitudinal • Transverse • Particles • Trough • Crest • Amplitude • Frequency • Superposition • Vacuum	
Revision and Assessment					
Where we will use these ideas again	KS4: Physics Unit 6 - Waves:	4.6.1.1	4.6.1.2	4.6.1.3	
	KS4: Triple only, Physics Unit 6 - Waves:	4.6.1.4	4.6.1.5		