Owls – Year 4/5 Spring 1 (A)

Science – Sound Who could hear the sounds of battle? Thread: Physics

What I should already know:

Enquiry Questions	Key Vocabulary Absorb – Take in	Working Scientifically Skills
• How are sounds made?	Amplitude – The measurement of the height of a sound wave. Decibel meter – The equipment used to measure the loudness of	 Identify how sounds are made, associating some of them with something vibrating.
How do sounds travel to our ears?	sound. Decibels – The unit to measure the loudness of sound. Defenders – Things that protect from harm	 Recognise that vibrations from sounds travel through a medium to the ear. Find patterns between the pitch of a sound and features of
 What is sound insulation and how does it work? What is volume? 	Ear – The organ of hearing in people and some other animals. Eardrum – Part of the ear that receives sounds. Echo – A repeating sound.	 Find patterns between the volume of a sound and the strength of the vibrations that produced it. Becognize that sounds and fainter as the distance from the
• what is volume?	Fade – Become less and less.	 Recognise that sounds get failler as the distance from the sound increases.
What is pitch?	Faint – Weak or slight. High pitch – A high, sometimes squeaky sound.	 Working Scientifically (Blue = Y5) Ask relevant questions and use different types of scientific
 What is the relationship between distance and volume? 	Instruments – Objects used to play music. Insulate – To cover or surround. Insulation – Material used to insulate; the act of insulating or the condition of being insulated. Loud – Having a large amount of sound; easily heard. Low pitch – A low sound. Materials – Anything used in making something or building. Medium – A substance such as air, water or solid. Orchestra – A collection of instruments that play together to create music. Particles – Tiny pieces that make up something larger. Pitch – How high or low a sound is. Power – Amount of energy. Reflect – Bounce back from a surface. Signals – Sound waves that are sent or received. Sound – Anything that people or animals can hear with their ears. Sound source – The object that started the sound. Source – The start of something. Travel – To move from one place to another. Vibration – Particles moving very quickly. Volume – How loud or quiet a sound is. Waves – The form that energy takes when travelling.	 Plan different types of bscientific enquiries to answer questions, including recognising and controlling variables where necessary. Use straightforward scientific evi.ence to answer questions or to support them. / Identify scientific evidence that has been used to support or refute ideas or arguments. Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment. / Take measurements using a range of scientific equipment with increasing accuracy and precision, taking repeat readings where necessary. Identify differences, similarities or changes related to simple scientific ideas and processes. Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. / Use test results to make predictions to set up further comparative and fair tests. Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables. Gather, record, classify and present data in a variety of ways to help answer questions. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. / Report and present findings from enquiries, including conclusions. / Report and present findings and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.

