Science Overview - Sound **Year Four Summer Term Key Question: What impact did the Roman invasion have on Britain?** National Curriculum •Identify how sounds are made, associating some of them with something vibrating recognise that vibrations from sounds travel through a medium to the ear • Find patterns between the pitch of a sound and features of the object that produced it • Find patterns between the volume of a sound and the strength of the vibrations that produced it • Recognise that sounds get fainter as the distance from the sound source increases. SUBSTANTIVE KNOWLEDGE 1) Know that sound is a type of energy and that sounds are created by vibrations. 2) Know that a louder sound creates a bigger vibration and that the size of the vibration is the amplitude. 3) Know that pitch is a measure of how high or how low a sound is. 4) Know that the speed of the vibration changes the pitch of the sound and that this can be changed depending on the instrument. 5) Know that sound travels as a wave and can travel through solids, liquids and gases. 6) Know how the ear receives and processes sound. vibration, sound wave, volume, amplitude, pitch, ear, particles, distance, Kev soundproof, absorb sound, vacuum, eardrum Vocabulary Previous year Sound is not taught in any other year group. groups key vocabulary: reporting on findings from enquiries, including oral and written Disciplinary Concepts explanations, displays or presentations of results and conclusions making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers gathering, recording, classifying and presenting data in a variety of ways to help in answering questions Pattern Seeking (enquiry type) **Enquiry type to** Is there a link between how loud it is in school and the time of day cover and enquiry Research using secondary sources (enquiry type) suggestion Do all animals have the same hearing range? I can... Learning Explain how a sound is made. **Milestones** Describe how sound travels.

Explain how sound gets to your ear.Identify high and low pitch sounds.

Describe different ways to change sounds.

/Assessment