

Science Knowledge Building

Know that sounds travel in order to reach our ears and that materials they travel through affect what we hear	Know that sounds that are too loud can affect hearing so safety is important when experimenting with sound	Know how to hypothesise regarding volume and vibration strength or object size and pitch and test them out, recording findings	Know and understand the terms 'insulate' and 'sound waves'	Understand how noise can be a pollutant and suggest some ways that this can be stopped or improved	Know that we can send sound without wires/strings, through wireless sound systems
Understand the link between the production of sounds and vibration and how sounds can be changed e.g. volume	Understand the factors that can affect how well sound travels, through experimentation	Understand how to observe patterns between volume and vibration strength, and object features and pitch	Know and understand the terms 'vibration', 'volume' and 'pitch'	Know that noise can be a pollutant in a similar way to light	Know how factors can affect the travel of vibrations and explore ways these could be improved
Understand more complex scientific processes and know some factors that can affect change	Understand that methods are a key part of safe experimentation and have secure knowledge of features	Know that clear observations and recordings support findings and prove theories	Know how scientific language learned relates to new science concepts and ideas	Understand how science affects our lives and the implications its use has on them	Understand that these links between science, technology, engineering and mathematics are key to many industries
Processes and Changes	Methods	Observing and Recording	Scientific Vocabulary	Uses and Implications	Cross-Curricular (STEM)

Picture Our Planet