Springfield School

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| Blackbirds Class Medium Term Planning for Science 2 |
| Topic: Wonder Women  | Vocabulary: Ear, particles, distance, sound, vibrations, eardrum  |

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| **Lesson 1 ‘link it’** **Sound how do we hear?** Exposition – What sounds can we hear? How can we hear those sounds? Groups – Go on a sound walk. Plenary – Share work  | **Lesson 2 ‘learn it’** **Good vibrations** Exposition – How do we hear sounds? Groups –Experiment with rice and cling film to demonstrate vibrations. Plenary – Share work.  |  **Lesson 3 ‘learn it’** **Hearing Sounds** Exposition – How do we hear sounds? Groups – Explore how sounds travel. Plenary – Share work. | **Lesson 4 ‘learn it’** **Higher and Lower** Exposition – What is pitch? How do we create high and low sounds? Groups – Create musical instruments to create high and low sounds. Plenary – Share work  |
|  **Lesson 5 ‘learn it’** **String Telephone** Exposition – Look at how sounds change when we increase distance. Groups – Make a string telephone. Plenary – Share work  | **Lesson 6 ‘check it’** **Sound Proofing** Exposition – How an we absorb sound? Groups – Explore what the best material for absorbing sound is Plenary – Share work  |  **Lesson 7** Create your own music or song!  |  |

Take the objectives for the LO stickers from this section

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| Substantive Knowledge (Content) | Disciplinary Knowledge (Skills)  |
| **Observing and Measuring Changes** **Children can:** a make systematic and careful observations; b observe changes over time; c use a range of equipment, including thermometers and data loggers; d ask their own questions about what they observe; e where appropriate, take accurate measurements using standard units using a range of equipment.  | * Know that sound can travel through solids, liquids and gases.
* Know that sound travels as a wave, vibrating the particles in the medium it is travelling in.
* Know that sound cannot travel through a vacuum.
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Progression of Learning

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| ‘Link It’  | ‘Learn It’ | ‘Check It’  | ‘Show It’ | ‘Know It’ |
| Previous learning of pupils * Knowledge of food and what humans need to survive
 | Activities provided during lesson Resources **PPTs** **Pictures** **Drums** **Rice** **Cups** **String** Activities to explore – - Sound vibrations - Pitch of sounds- Travelling sound  | Independent activities linked to lesson Resources **PPTs** **Books** **Pictures** Activities- Drums Craft materials -Opportunities to demonstrate knowledge  | How will the pupils share knowledge during or end of lesson**Explore and discuss photographs of lessons**Share and compare work through performance  | Retrieve or generalization of learning after lesson * Know sound is made up of vibrations
* Understand how sound travels
* Understand how sound changes
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