| **https://lh6.googleusercontent.com/IwhRzfrkSGabunHbUCzbDwq_AwaZge7POI0fGnWXWRpZK1pXEeFPLx_qz2D3_fVTdF-Pw5icH3PIl67YxJxXuKjUWM-Sm8UfDFsW0MW6fskAjYpZxoAy_ApqC4T5H-EEQ98ZAwM=s1600****Knowledge Organiser** |
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| **Year Group: Year 3/4 Term: Spring Academic Year: 2023/2024** |
| **Subject: Science Topic: Sound** |

| **What I should already know?** |
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| In KS1 children: • May have some understanding that objects make different sounds. • Some understanding that they use their ears to hear sounds. • Know about their different senses. |
| **What will I know by the end of this unit?** |
| * Sound travels from its source in all directions and we hear it when it travels to our ears.
* Sound travel can be blocked. · Sound spreads out as it travels.
* Changing the shape, size and material of an object will change the sound it produces.
* Sound is produced when an object vibrates.
* Sound moves through all materials by making them vibrate.
* Changing the way an object vibrates changes it’s sound.
* Bigger vibrations produce louder sounds and smaller vibrations produce quieter sounds.
* Faster vibrations (higher frequencies) produce higher pitched sound

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| **Vocabulary – You need to be able to understand and be able to use these words by the end of this unit** |
| **Vibration -** move side to side quickly with small movements | **Pitch (high, low)** - how high or low a sound is |
| **Medium** - a substance that makes possible the transfer of energy from one location to another | **Volume** - the amount of sound produced |
| **Auditory**- related to sound | **Absorb** - soaked into |
| **Soundproof** - to stop sound  | **Produce** - cause a particular result or effect |
| **decibel**- measure of sound | **Source** - the origin of something |
| **Particle** - minute portion of a matter | **Wave** - up and down movement of particles |