



St Leo's and Southmead  
Catholic Nursery and Primary  
School

Year  
Four

# Science Knowledge Organiser

Summer  
Term 2

## Amazing Activities

- play a song with their own instruments for another class.

### Key Concepts

Investigate a range of different musical instruments from around the world and find out how the pitch and volume of sounds can be changed in a variety of ways.

Work scientifically by finding patterns in the sounds that are made by different objects such as saucepan lids of different sizes or elastic bands of different thicknesses.

Investigate how sound travels through different materials

Use earmuffs from a variety of different materials to investigate which provides the best insulation against sound.

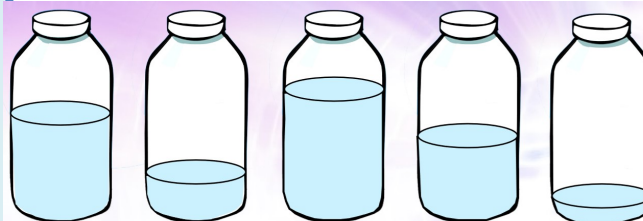
Make and play their own instruments by using what they have found out about pitch and volume.



## Changing Sound

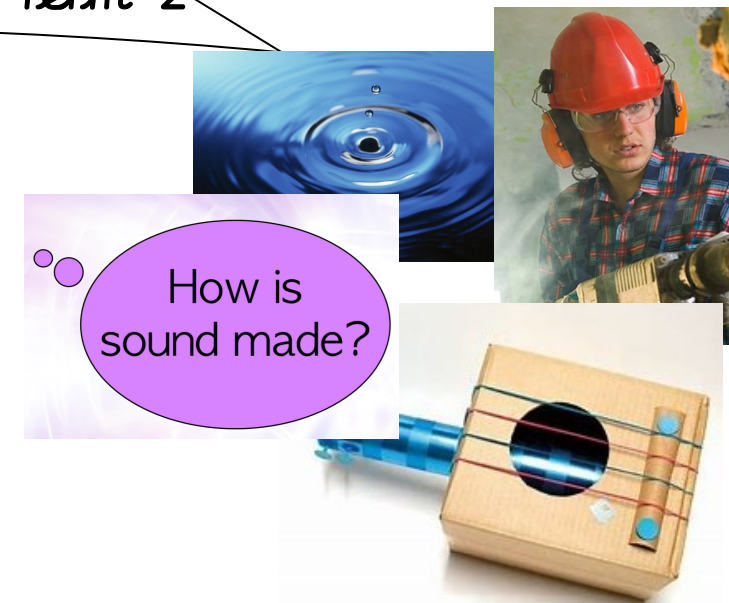
### Objectives

- ◆ 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.



### Curriculum Links

- **Music Link:** explore the instruments that children have been using during Music



How is sound made?

### Key Vocabulary

vibration	A shaking movement that causes a sound
medium	A thing through which a force / vibration can move
pitch	A sound that is high or low
volume	A loud or quiet sound.
Sound insulation	Stops sound from travelling through it
investigation	Finding out if something will happen as you think it would—5 steps
Ear protectors	Protect the ears from loud noises

Nurture, Inspire, Succeed