

My steps through learning:

What I will know and understand

How I will show that I know it

Steps through Learning Science: Changing Sound

Lesson 7

To find out how sounds can be made by air vibrating and how to change the pitch of notes produced by vibrating air.

I know that sounds can be made by air vibrating

I can suggest ways to change the pitch of a sound made by air

I can describe how to change the length of the air column vibrating to change pitch



Lesson 5

To investigate how sounds can be different pitches and volumes.

I know that the term 'pitch' describes how high or low a sound is

I can recognise changes in pitch and identify high and low notes

I can investigate different instruments and make generalisations about pitch



Lesson 3

To explore the relationship between distance and volume.

I know that sounds get fainter as the distance from the sound source increases

I can carry out an investigation to explore what happens to sound as it gets further away

I can draw conclusions and describe what I have found out



Lesson 1

To find out that sounds are made when objects and materials vibrate.

I know that sounds are made when objects or materials vibrate

I can make careful observations

I can draw conclusions about sounds from my observations



What should I already know

Lesson 6

To find out how the length, thickness and tightness of a string affects its pitch.

I know that the pitch of a stringed instrument depends on the length, thickness and tightness of the string

I can suggest ways of testing what happens to the pitch of a string when you alter the length, tightness and thickness

I can draw conclusions from my observations



Lesson 4

To find out that some materials are effective in preventing vibrations from sound sources reaching the ear.

I can name some of the reasons why preventing sound to travel is sometimes important

I can plan a test to measure how well different materials muffle sound

I can draw conclusions about which materials muffle sound the best



Lesson 2

To investigate whether sounds can travel through different materials.

I know that vibrations from sound sources travel through different materials to the ear

I know sound can travel through solids, liquids and gases

I know that some materials allow sound to pass through them more easily than others



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

