

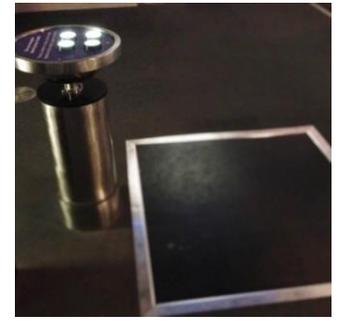
Good vibrations

Location

First floor, Curiosity zone exhibition

In a nutshell

How do different types of music feel? Find out using this exhibit.



What to do

Stand on the vibrating mat and press one of the lit buttons on the stand to start a sample of music. Try each button in turn to compare the vibrations of each type of music.

Time Required

KS1 & KS2 3-4 minutes per student.

What's happening?

Sounds reach us through vibrations, whether it is the vibrations through the air to reach our ears or the vibrations of our bones in the Sound bite exhibit. In this exhibit not only can you hear the music from the speakers above but you can feel the vibrations from the square mat you are stood on. Different types of music have different patterns of vibration to produce the sound. The vibrations you feel below your feet will also be happening in the speakers above. Speakers turn the electronic signal of the music into the vibrations of the speaker cones that produce the sound waves you hear. A microphone works in the opposite directions, detecting the vibrations of the sound waves in the air and turning them into an electronic signal. If the music is faster with more bass you will feel more frequent stronger vibrations, slower quieter classical music will produce more gentle vibrations.

Curriculum links

KS1/2	Science - Sound <ul style="list-style-type: none">- (Yr4) identify how sounds are made, associating some of them with something vibrating- (Yr4) recognise that vibrations from sounds travel through a medium to the ear- (Yr4) recognise that sounds get fainter as the distance from the sound source increases
	English - Spoken language <ul style="list-style-type: none">- give well-structured descriptions, explanations and narratives for different purposes, including for expressing feelings- use spoken language to develop understanding through speculating, hypothesising, imagining and exploring ideas

Relates to:

Workshops & Theme Days	Shows	Trails	Other exhibits
<ul style="list-style-type: none">• Body basics (KS1)	<ul style="list-style-type: none">• Brainworks (KS1 & KS2 lower)		<ul style="list-style-type: none">• Seeing sound• Hearing range• Sound bite• Surprising sounds• Whisper dishes

