

## Key Content

Understand that sounds can be digitally recorded.

Understand that input (microphones) and output devices (speakers or headphones) are needed to record digital audio.

To know that digitally recorded audio can be edited through the use of different tracks.

Understand that images can be changed for different uses and know how to change them.





### Key Vocabulary

Audio	A different word for sound.
Microphone	An instrument that converts sound waves into electrical signals.
Speaker	A device that makes sounds louder.
Input device	Devices that are used to input data into a computer.
Output device	Devices that show the information and result of the input data.
Record	The storage of sound so that a person can hear the same sound more than once.

### Knowledge

**Input and Output Devices**





We use input devices to send the audio to the device/ computer. We use output devices to listen to the audio from the device/ computer.

Input Devices	Output Devices
 <p><u>Microphones</u> are input devices that change sound into electrical signals, which can then be recorded or transmitted.</p>	 <p><u>Digital speakers</u> turn the electrical signal into an audio output that can be heard by the listener.</p>
 <p>With the help of special cables, <u>musical instruments</u> can be linked to computers, and become input devices.</p>	 <p><u>Headphones</u> are worn over the ears of the listener, so that only they can hear the sound output.</p>

Some devices are capable of acting as both input and output devices. Examples include headsets, smartphones, and voice assistants (e.g. Google Home and Amazon Echo).

**Audio Editing**

- You should already know that audio means sound, including music, sound effects, and podcasts.
- The process of recording and listening to sound requires input devices (e.g. a microphone) and output devices (e.g. a speaker).
- Podcasts are a type of spoken word audio file, that can be downloaded by listeners.
- People can have ownership over audio files, and can have the audio copyrighted, so that it can't be copied without permission.







### Knowledge

## What Is a Podcast?

Has anyone heard of the word podcast? Can anyone describe what it is or what it means?

The word podcast is used to describe a downloadable broadcast or program, which could include video, music or speech.



It is in digital form and is playable on a computer or mobile device like a phone or tablet.

**Creating Podcasts**

Podcasts are a type of spoken word file that can be downloaded by listeners. A user can often choose to download the whole series of podcasts.

Some examples of podcasts are 'Stories Podcast', 'Six Minutes' and 'Brains On! Kids Science Podcast.'


Features of podcasts include:

- Sounds: Voices, jingles, background music, sound effects
- Information: Presenters' names, name of podcast, introduction, main section, conclusion.

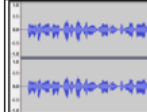


**Top Tips for High-Quality Podcasts**

- Speak clearly
- Avoid fillers ('um', 'like')
- Avoid coughing/ sneezing
- Take turns to speak
- Avoid background noise
- Don't touch the microphone
- Choose music carefully



↑ Pause    ↑ Play    ↑ Stop    ↑ Skip to start    ↑ Record    ↑ Skip to end



The sound is shown as a waveform. We should aim for it to peak at around 0.5/ -0.5