YEAR 11 MUSIC TECHNOLOGY TERM 2

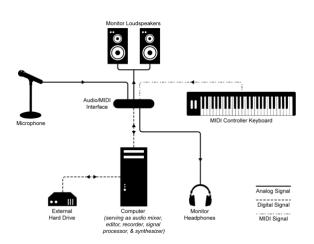
Retrieval



Signal Flow



All sound you record must go through a chain, which we call the *signal flow*. A variety of analogue, digital and MIDI cables are used for these



Recording



Unit 3: Studio Recording Types of audio tracks - VS MP3 WAV 44kHz, 16bit 128kbps 96kHz, 24bit 4096kbps

When you bounce down a project, you will get asked which format you want to bounce to. This will allow you to turn your Logic/Cubase/Soundtrap file into an audio file. There are two main types of stereo tracks.

MP3	WAV
 Small and compressed format 	Higher quality, uncompressed
Lower quality	• This is the type of file that you would
 Easier to share, quick to donwload 	use for a CD
• You can fit more on a phone	 They sound better, although most people can't tell the difference! Usually 10 times bigger files than Mp3 Usually too big to be attached to an email

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Effects

Effects can be applied to all tracks, both audio and MIDI. They are types of plugins. They usually include a Wet/Dry mix function, which allows you to control how much of the effect you want on your track.



Reverb.

Reverb recreates a **large space** such as a room, chamber or hall. They allow your sound to carry on for longer. It is used on most instruments when mixing.



Delay

Delay creates **distinct repeats** of the sound. It is also called echo. It is often used on vocals, synths and guitars.

Compression

Compression **makes the sound more even** by making the loud sounds quieter. The volume of the compressor can then be brought up with Make-Up gain, making the overall track louder.

A compressor is a **dynamic processor**.

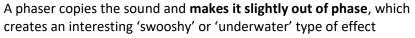




Noise gate

A noise gate **removes quiet sounds** in between louder sounds. They are particularly useful on vocal parts (to get rid of any background noise) or on guitar parts to get rid of line noise. A gate is a **dynamic processor.**

Phaser



Chorus

A chorus is very similar to a phaser, although it puts the copied sound **slightly out of time & tune** with the original, making it sound like there are multiple of the same track.



0.300Hz

Chorus

30%

10.0%

Distortion

Distortion drives the gain (or volume) of the track up until it gets gritty. Distortion can also happen if you have recorded a track too loud.

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Recording Techniques

Close mic'ing

- Placing the microphone close to the sound source
 - Vocals, saxophone, flute: 6 inches



Amp, snare drum: 1inch 0





• Acoustic guitar: 12 inches



- Accessories for mic'ing vocals
- Headphones (to hear back the track and reduce spill)
- Pop filter (to reduce excess syllables -p's and s's etc)
- Cradle (to reduce vibrations)



Spaced pair

- Using two mics to get a stereo image
- Best for recording piano & drums overheads





• Place the mics at equal distance from the sound and 3 times as far from each other

Mic'ing the drum kit.

1.Kick drum– Dynamic 2. Snare & toms – Dynamic 3. Overheads – Condenser

