

Pitch & Rhythm Correction and Manipulation - Knowledge Organiser

GLOSSARY	
Cent	1/100 th of a semitone (100 cents = 1 semitone)
Response Time	How quickly a plug-in affects its input
Formant	The harmonic frequencies that occur in the human voice and determine timbre
Transient	The high-amplitude, short-duration sound at the beginning of a waveform
PITCH CORRECTION	
<ul style="list-style-type: none"> Used to automatically re-tune the pitch of a recording <ul style="list-style-type: none"> Used both correctively and creatively Modern DAWs allow the user to change specific notes using the piano roll editor Notes can be shifted by either semitones or cents Smaller errors can also be corrected by cutting and pasting material from elsewhere in the track The response time of a pitch correction plug-in determines how fast the affected notes are adjusted <ul style="list-style-type: none"> Faster response time = More robotic sounding vocals 	Examples of Pitch Correction Plug-Ins <ul style="list-style-type: none"> Logic Pro – Flex Pitch Cubase – VariAudio External – Melodyne, Auto-Tune
RHYTHM CORRECTION	
<ul style="list-style-type: none"> Audio quantise can be used to correct rhythmic mistakes in an audio recording The transients of the waveform are analysed and time-stretched to snap to a grid These transients can be adjusted manually Smaller errors can be fixed using the scissor tool and by manually adjusting out of time notes 	
GROOVE TEMPLATES	
<ul style="list-style-type: none"> Groove templates can be used to recreate the inconsistencies in tempo found in live performances They allowed completely sequenced performances to possess a more 'human' feel Templates would be extracted from samples using an app/plug-in and then they would be applied to a MIDI track 	