

Stereo - Knowledge Organiser

GLOSSARY	
Stereo	Sound coming from 2 speakers/sources
Pan	The placement of sounds in a stereo field
Potentiometer	A variable resistor used to adjust parameters in audio equipment, usually in the form of a fader or control knob
PANNING	
60s	Present Day
<ul style="list-style-type: none"> Wide panning was most common (LCR/Left-Centre-Right) <ul style="list-style-type: none"> Rhythm section would be hard panned to one side and vocals hard panned to the other To pan tracks centrally, both the left and right signals would be turned up 	<ul style="list-style-type: none"> Panning is applied gradually across the stereo field <ul style="list-style-type: none"> Instruments like bass guitar and vocals are usually panned centrally Drum overheads are usually panned hard left and right Other instruments can be panned across the stereo field, not just hard left or right
STEREO WIDENING	
<ul style="list-style-type: none"> Stereo widening is used to create space in a busy mix by giving clarity to key elements (e.g., lead vocals) 	
Delay	Very short delays are perceived by the brain as alterations in the position of a signal rather than repeats, thus creating a stereo effect
EQ	Using complementary settings on the left and right channels can create a sense of stereo width
Stereo Reverb	Stereo reverb can give mono tracks a sense of width
Plug-ins	Stereo widening plug-ins such as 'Stereo Spread' can also achieve stereo widening
<ul style="list-style-type: none"> Stereo widening doesn't have very good mono compatibility, so it is important to check the bounce of a stereo mix if it is being played back on a mono system 	
PANNING LAW	
Panning law describes the relationship between a signal's perceived image position and the pan control knob	
<ul style="list-style-type: none"> When a signal is panned centrally, the same signal is output to both the left and right channels The panning law introduces a 3dB attenuation at the centre <ul style="list-style-type: none"> This is so the signal is perceived to move smoothly across the stereo field Without the attenuation, the signal would sound louder the closer it was panned to the centre 	