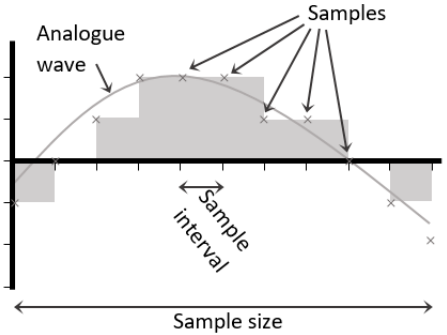
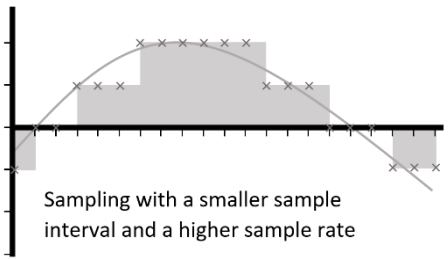
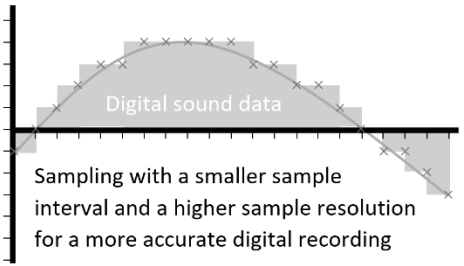
Name: Data Representation: Compression of Sound

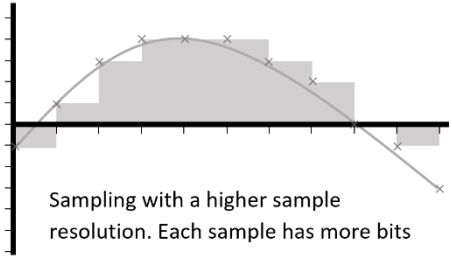




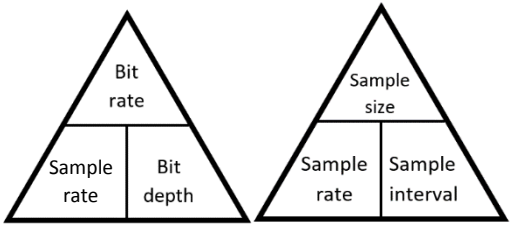
Sampling with a smaller sample interval and a higher sample rate



Sampling with a smaller sample interval and a higher sample resolution for a more accurate digital recording



Sampling with a higher sample resolution. Each sample has more bits



A	Representing Sound	
Digital	Having discrete values which can be stored as binary	
Analogue	Having continuously changing values	
Sample	The smallest element of a recorded sound. A value or set of values which represent a sound at a specific moment	
Sample size	The number of seconds over which a *sample* was taken	*s*
Sample rate	The number of times per second the sound is sampled. *Sample size ÷ sample interval*	*Hz*
Bit rate	The number of bits used to store a second of sampled sound. *Bit depth × sample rate*	*bps*
Sample interval	The length of time between two samples	*s*
Bit depth / Sample resolution	The number of bits used to store each sample	*b*
Channel	An audio file which is intended to be played at the same time as another	
File size	*Sample rate × bit depth × sample size*	