Sound waves – every sound is made up of waveforms



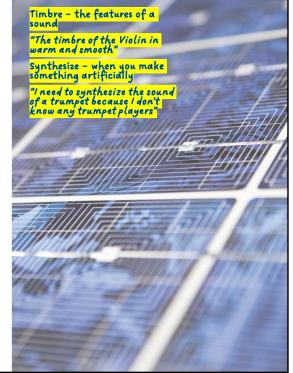
Waveforms create the timbre of the sound – composers pick the wave form in the same way they would pick an instrument – the right timbre for the right job



Electronic music uses these to synthesize real world sounds or to create new ones



Complex waveforms use many types of wave to create more complex sounds and even synthesize the sound of 'real' instruments. Later electronic devices called FM Synths (frequency modulation synthesis)



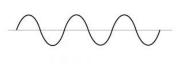
Simple waveforms
use one type of wave
- like those produced
in early game music
by 8bit chips and
programmable sound

generators.

Waveforms

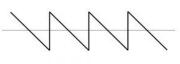
Online Tone Generator - Free, Simple and Easy to Use

SINE WAVE



The most basic and simple waveform, a sine wave has a simple hollow sound. It does not exist in nature, but is the simplest sound to reproduce with electronics, which is why you may recognize it from warning tones and beeps.

SAWTOOTH WAVE



The sawtooth produces **a full buzzing sound**. Notice how the wave looks like the teeth of a saw, hence the name.

SQUARE WAVE Notice how the waves seem to form a square shape which gives the square wave a little more bite to the sound. It kind of has a buzzing sound, but is not as intense as the sawtooth.