

Basics of Audio Recording by Barbara Freedman
Author of *Teaching Music Through Composition: A Curriculum Using Technology*
Oxford University Press, 2013
<http://MusicEdTech.com>

“Teach music. The technology will follow.”

Basic Definitions:

Panning: moving sound across a linear spectrum, right to left ear

EQ: equalization: manipulation of specific frequencies or ranges of frequencies

Frequency: how often sound waves per second, measured in Hertz or kiloHertz (Hz or kHz), pitch

Amplitude: Height of the sound wave, volume

Compression: reduction of amplitude (volume) of sound waves above a specified level. Reduces dynamic contract so louder sections can be made softer and softer sections can be made louder.

Reverb (reverberation): as an effect, simulates a room

Sites for Information:

Propeller Head Record U : http://www.propellerheads.se/substance/record-u/index.cfm?fuseaction=display_main

PreSonus Learn: <http://www.presonus.com/community/learn>

Rode University: <http://www.youtube.com/rodemicrophones>

Five Minutes to a Better Mix: <http://therecordingrevolution.com/5minutes/>

Articles:

Tips on Clarifying Your Sonic Imagery: http://tweakheadz.com/pan_control.htm

The Music Mixing Process: <http://www.music-production-guide.com/music-mixing.html>

The Art of Panning: <http://www.teachmeaudio.com/production/mixing/4-techniques/11-art-of-panning>

Basic Guide to Understanding EQ: <http://www.bhphotovideo.com/find/newsLetter/Understanding-EQ.jsp>

Learn EQ by PreSonus: <http://www.presonus.com/community/Learn/Equalizer-Terms-and-Tips>

What is Compression: <http://aidermusic.com/compression-pt-12-what-is-a-compressor-199>

Dynamics Processing by PreSonus: <http://www.presonus.com/community/Learn/Dynamics-Processing-Terms-and-Tips>

Books:

The Art of Mixing: A Visual Guide to Recording, Engineering, and Production by David Gibson published by ArtistPro Publishing

The Mixing Engineer's Handbook by Bobby Owsinski published by Thompson Course Technology

Audio Mixing Boot Camp: Hands-On Basic Training for Musicians (Book & DVD) by Bobby Owsinski published by Alfred Publishing

Courses:

Berklee School of Music: <http://online.berklee.edu/courses/live-sound-mixing-and-recording>

Dubspot: <http://www.dubspot.com>

Point Blank: <http://www.pointblanklondon.com>

Macprovideo.com: <http://www.macprovideo.com>

Groove3: <https://www.groove3.com>

Handout by Barbara Freedman barb@musicedtech.com <http://MusicEdTech.com>



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Consulting:

- Curriculum development
- Building and outfitting labs & studios

Professional development, faculty workshops and online courses:

- Technology integration and training for general education teachers including Google products integration and Learning Management Systems including Schoology, Canvas, Moodle, and Blackboard
- Technology integration and training for music teachers including specific software
- Music composition for grades 5 – 12 educators
- Audio engineering for music educators
- Please ask me to develop a workshop for your district's needs!