- + Frequency ratios: unison, octave, fifth, fourth, third, etc.
- + Interval = separation of two notes on a scale
- * Musical Scales Pentatonic, Pythagorean, Meantone Tuning, Just,

Just Diatonic, Tempered Scales

- + whole tones, semi-tones, cents
- + pitch standard(s)
- + octave notation
- + frequencies of musical notes, e.g. in tempered scale
- * Acoustics
 - + Acoustics of auditoriums, recording studios, home listening rooms, etc.
 - o Interference, sound absorption, Sabine eqn.
 - o Reverberation & echo, spectral, octave & 1/3-octave band measurements of room/auditorium acoustics, T60, T30 measurements, etc.
 - o Electronic Sound Reinforcement
 - o Computer analysis/modeling electro-acoustics of auditoriums/studios/etc.
 - + Acoustics of loudspeaker enclosures
- Production of musical sounds by musical instruments mimic human voice, and/or natural human rhythms (percussion instruments).
 - + Human Voice & Singing 1st musical instrument 1-D vibrational system.
 - o vocal chords/larynx/hyoid bone/tongue/chest-mouth-nasal cavity & formants
 - o Formants & use of formants/professional singers, Tuvan throat singing, etc.
 - + Stringed Instruments
 - o Physics of plucked & bowed vibrating strings
 - o Plucked: acoustic/classical and electric guitar(s), mandolin, ukulele,etc.
 - o Bowed: violin, viola, cello, bass
 - o Hammered: piano, hammered dulcimer
 - + Woodwind Instruments
 - o Physics of whistles, reeds & organ pipes
 - o Whistles: Whistle, recorder, flute
 - o Reed: Clarinet, oboe, bassoon, saxophone
 - o Pipe: Pipe organ, bagpipes
 - + Brass Instruments
 - o Physics of mouthpiece, bell
 - o Trumpet, trombone, French horn
 - + Percussion Instruments
 - o Physics of vibrating bars, plates, membranes
 - o Xylophone, glockenspiel, Fender-Rhodes piano
 - o Drums (all kinds), cymbals (all kinds)
 - o Musical saw
 - + Electronic Musical Instruments
 - o Electro-mechanical organs e.g. Hammond B3
 - o Electronic organs/keyboard instruments
 - o Analog and Digital Sound Synthesizers,
 - o MIDI & MIDI instrument
 - o Computer-generated music
 - o Electronic Stringed Instruments guitars, bass guitar, cello, mandolin...
 - + Analog & Digital Recording of Music & Sound
 - o Edison phonograph cylinder & disk records (analog)