

# Piano vs Voice (Old 100th)

Psaumes de David (1551)

Human voices compared to piano key frequencies (equal temperament)

The image displays a musical score for 'Piano vs Voice (Old 100th)' from 'Psaumes de David (1551)'. It compares biological human voice frequencies with equal-tempered piano key frequencies. The score is organized into two systems, each with four staves representing different voice parts: Biological Treble, Biological Alto, Biological Tenor, and Biological Bass. Below each staff, two rows of numerical data are provided: the top row shows biological frequencies and the bottom row shows tempered piano frequencies. The music is written in a 3/2 time signature with a key signature of three sharps (F#, C#, G#).

System	Staff	Biological	Tempered Piano
1	Biological Treble	440, 550, 495, 440, 412.5, 352, 412.5, 440, 660, 660, 555, 440, 412.5, 440, 352, 440, 495	440, 554.4, 493.9, 440, 415.3, 369.9, 415.3, 440, 659.3, 659.3, 554.4, 440, 415.3, 440, 369.9, 440, 493.9
	Biological Alto	330, 440, 495, 440, 330, 352, 330, 330, 330, 440, 440, 440, 352, 412.5, 352, 352, 330, 330	329.6, 440, 493.9, 440, 329.6, 369.9, 329.6, 329.6, 329.6, 440, 440, 440, 369.9, 415.3, 369.9, 369.9, 329.6, 329.6
	Biological Tenor	440, 440, 412.5, 352, 330, 440, 495, 550, 550, 550, 550, 495, 440, 586.6, 550, 495	440, 440, 415.3, 369.9, 329.6, 440, 493.9, 554.4, 554.4, 554.4, 554.4, 493.9, 440, 587.3, 554.4, 493.9
	Biological Bass	220, 220, 165, 176, 165, 176, 165, 110, 220, 220, 220, 165, 176, 146.6, 110, 165	220, 220, 164.8, 184.9, 164.8, 184.9, 164.8, 110, 220, 220, 220, 164.8, 184.9, 146.6, 110, 164.8
11	Biological Treble	550, 495, 440, 412.5, 660, 586.6, 550, 495, 550, 550, 660, 440, 412.5, 352, 440, 412.5, 440	554.4, 493.9, 440, 415.3, 659.3, 587.4, 554.4, 493.9, 554.4, 554.4, 659.3, 440, 415.3, 369.9, 440, 415.3, 440
	Biological Alto	352, 412.5, 330, 495, 440, 352, 330, 330, 330, 440, 330, 352, 440, 330, 352, 330, 330, 275	369.9, 415.3, 329.6, 493.9, 440, 369.9, 329.6, 329.6, 329.6, 440, 329.6, 369.9, 440, 329.6, 369.9, 329.6, 277.2
	Biological Tenor	440, 495, 550, 495, 440, 352, 412.5, 440, 660, 550, 440, 495, 586.6, 550, 495, 440	440, 493.9, 554.4, 493.9, 440, 369.9, 415.3, 440, 659.3, 554.4, 440, 493.9, 587.3, 554.4, 493.9, 440
	Biological Bass	176, 165, 220, 165, 137.5, 146.6, 165, 110, 220, 220, 176, 165, 146.6, 220, 165, 110	184.9, 164.8, 220, 164.8, 138.6, 146.8, 164.8, 110, 220, 220, 184.9, 164.8, 146.8, 220, 164.8, 110

Tonic (1/1 = 440); second (9/8 = 495); third (5/4 = 550); fourth (4/3 = 586.666); fifth (3/2 = 660); sixth (8/5 = 704); seventh (15/8 = 825); octave (2/1 = 880).