

Physics of Music - Notes

Frequencies for equal-tempered scale

This table created using $A_4 = 440$ Hz
 Speed of sound = 345 m/s = 1130 ft/s = 770 miles/hr

("Middle C" is C_4)

Note	Frequency (Hz)	Wavelength (cm)
C_0	16.35	2100.
$C^{\#}_0/D^b_0$	17.32	1990.
D_0	18.35	1870.
$D^{\#}_0/E^b_0$	19.45	1770.
E_0	20.60	1670.
F_0	21.83	1580.
$F^{\#}_0/G^b_0$	23.12	1490.
G_0	24.50	1400.
$G^{\#}_0/A^b_0$	25.96	1320.
A_0	27.50	1250.
$A^{\#}_0/B^b_0$	29.14	1180.
B_0	30.87	1110.
C_1	32.70	1050.
$C^{\#}_1/D^b_1$	34.65	996.
D_1	36.71	940.
$D^{\#}_1/E^b_1$	38.89	887.
E_1	41.20	837.
F_1	43.65	790.
$F^{\#}_1/G^b_1$	46.25	746.
G_1	49.00	704.
$G^{\#}_1/A^b_1$	51.91	665.
A_1	55.00	627.

A [#] ₁ /B ^b ₁	58.27	592.
B ₁	61.74	559.
C ₂	65.41	527.
C [#] ₂ /D ^b ₂	69.30	498.
D ₂	73.42	470.
D [#] ₂ /E ^b ₂	77.78	444.
E ₂	82.41	419.
F ₂	87.31	395.
F [#] ₂ /G ^b ₂	92.50	373.
G ₂	98.00	352.
G [#] ₂ /A ^b ₂	103.83	332.
A ₂	110.00	314.
A [#] ₂ /B ^b ₂	116.54	296.
B ₂	123.47	279.
C ₃	130.81	264.
C [#] ₃ /D ^b ₃	138.59	249.
D ₃	146.83	235.
D [#] ₃ /E ^b ₃	155.56	222.
E ₃	164.81	209.
F ₃	174.61	198.
F [#] ₃ /G ^b ₃	185.00	186.
G ₃	196.00	176.
G [#] ₃ /A ^b ₃	207.65	166.
A ₃	220.00	157.
A [#] ₃ /B ^b ₃	233.08	148.
B ₃	246.94	140.
C ₄	261.63	132.
C [#] ₄ /D ^b ₄	277.18	124.
D ₄	293.66	117.
D [#] ₄ /E ^b ₄	311.13	111.
E ₄	329.63	105.
F ₄	349.23	98.8

F [#] ₄ /G ^b ₄	369.99	93.2
G ₄	392.00	88.0
G [#] ₄ /A ^b ₄	415.30	83.1
A ₄	440.00	78.4
A [#] ₄ /B ^b ₄	466.16	74.0
B ₄	493.88	69.9
C ₅	523.25	65.9
C [#] ₅ /D ^b ₅	554.37	62.2
D ₅	587.33	58.7
D [#] ₅ /E ^b ₅	622.25	55.4
E ₅	659.26	52.3
F ₅	698.46	49.4
F [#] ₅ /G ^b ₅	739.99	46.6
G ₅	783.99	44.0
G [#] ₅ /A ^b ₅	830.61	41.5
A ₅	880.00	39.2
A [#] ₅ /B ^b ₅	932.33	37.0
B ₅	987.77	34.9
C ₆	1046.50	33.0
C [#] ₆ /D ^b ₆	1108.73	31.1
D ₆	1174.66	29.4
D [#] ₆ /E ^b ₆	1244.51	27.7
E ₆	1318.51	26.2
F ₆	1396.91	24.7
F [#] ₆ /G ^b ₆	1479.98	23.3
G ₆	1567.98	22.0
G [#] ₆ /A ^b ₆	1661.22	20.8
A ₆	1760.00	19.6
A [#] ₆ /B ^b ₆	1864.66	18.5
B ₆	1975.53	17.5
C ₇	2093.00	16.5
C [#] ₇ /D ^b ₇	2217.46	15.6

D ₇	2349.32	14.7
D [#] ₇ /E ^b ₇	2489.02	13.9
E ₇	2637.02	13.1
F ₇	2793.83	12.3
F [#] ₇ /G ^b ₇	2959.96	11.7
G ₇	3135.96	11.0
G [#] ₇ /A ^b ₇	3322.44	10.4
A ₇	3520.00	9.8
A [#] ₇ /B ^b ₇	3729.31	9.3
B ₇	3951.07	8.7
C ₈	4186.01	8.2
C [#] ₈ /D ^b ₈	4434.92	7.8
D ₈	4698.64	7.3
D [#] ₈ /E ^b ₈	4978.03	6.9

(To convert lengths in cm to inches, divide by 2.54)

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