piano)					s 	-						_															net			rinet	one	hone	Saxophone	$\overline{}$		
Note # (88-key piano)	MIDI Note	Note	Octave	Frequency (Hz)	Wavelength (ft)	Wavelength (in)	Synthesizer	Piano	Pipe Organ	Accordion	Voice: Bass	Voice: Baritone	Voice: Tenor	Voice: Alto	Voice: Soprano	Bass Guitar	Guitar	Cello	Violin	Bass Drum	Timpani	Toms	Cymbals	Bb Bass Tuba	Bb Trombone	F French Horn	Trumpet / Coronet	Bassoon	Bb Bass Clarinet	Bb soprano Clarinet	Bb Bass Saxophone	Bb Tenor Saxophone	Bb Soprano Sax	Oboe	Flute	Comments
	12 13 14	C# - Db	0				0		0																											
	15 16	D# - Eb E	0				0		0																											
		F# - Gb	0				0		0																											0
1	19 20 21	G# - Ab	0 0	27.5000	40.95	491.35	0	1	0 0 1																											
2		A# - Bb	0	29.1352 30.8677	38.65 36.48	463.77 437.74	2	2	2																											
4 5		C# - Db	1	32.7032 34.6478	34.43 32.50	413.17 389.98	4 5	4 5	4 5																											
7		D# - Eb	1	36.7081 38.8909	30.67 28.95	368.09 347.43	7		7											0																
9 10	28 29 30		1 1 1	41.2034 43.6535 46.2493	27.33 25.79 24.35	327.93 309.53 292.16	8 9 10		8 9 10	9 10						8 9 10				8 9 10				8 9 10												1
11 12	31		1	48.9994 51.9131	22.98 21.69	275.76 260.28	11 12		11 12	11 12						11 12				11 12				11 12												
13 14		A# - Bb	1	55.0000 58.2705	20.47 19.32	245.67 231.88	13 14	14	13 14	13 14						13 14				13 14				13 14		13 14		13 14			13 14					
15 16	35 36	С	2	61.7354 65.4064	18.24	218.87	15 16	16	15 16	15 16						15 16		16		15 16				15 16		15 16		15 16	16		15 16					
17 18 19	38	C# - Db D D# - Eb	2 2 2	69.2957 73.4162 77.7817	16.25 15.34 14.48	194.99 184.05 173.72	17 18 19		17 18 19	17 18 19						17 18 19		17 18 19		17 18 19				17 18 19		17 18 19		17 18 19	17 18 19		17 18 19					
20	40 41	E	2 2	82.4069 87.3071	13.66 12.90	1/3.72 163.97 154.76	20		20	20	20 21					20	20 21	20		20	21			20		20		20	20		20					7
22 23	42 43	F# - Gb G	2	92.4986 97.9989	12.17 11.49	146.08 137.88	22 23		22 23	22 23	22					22 23	22 23	22 23		22 23				22 23	23	22 23		22 23	22 23		22 23					
24 25	45		2	103.8260 110.0000	10.85	130.14 122.84	24 25	24 25	24 25	24 25	24 25	25				24 25	24 25	24 25		24 25	24 25	25		24 25	24 25	24 25		24 25	24 25			25				
26 27 28	46 47 48		2 2 3	116.5410 123.4710 130.8130	9.66 9.12 8.61	115.94 109.43 103.29	26 27 28	26 27 28	26 27 28	26 27 28	26 27 28	26 27 28				26 27 28	26 27 28	26 27 28		26 27 28	26 27 28	26 27 28		26 27 28	26 27 28	26 27 28		26 27 28	26 27 28		26 27 28	26 27 28				
29		C# - Db	3	138.5910 146.8320	8.12 7.67	97.50 92.02	29 30		29 30	29 30	29 30	29 30	30			29 30	29 30	29 30		28	29 30	29 30	30	29 30	29 30	29 30		29 30	29 30	30	29 30	29 30				
31 32		D# - Eb	3	155.5630 164.8140	7.24 6.83	86.86 81.98	31 32			31 32	31 32	31 32				31 32		31 32				31 32		31 32		31 32	32	31 32	31 32		31 32	31 32				
33 34		F# - Gb	3	174.6140 184.9970	6.45 6.09	77.38 73.04	33 34		33 34	33 34	33 34	33 34	33 34			33 34	33 34	33 34			33 34	33 34	33 34	33 34	33 34	33 34				3						
35 36		G# - Ab	3 3	195.9980 207.6520	5.74 5.42	68.94 65.07	35 36		35 36	35 36	35 36	35 36	35 36	35 36		35	35 36 37	35 36	35 36		35 36	35 36	35 36	35 36	35 36	35 36	27	27								
37 38 39	57 58 59	A# - Bb	3	220.0000 233.0820 246.9420	5.12 4.83 4.56	61.42 57.97 54.72	37 38 39		37 38 39	37 38 39	37 38 39	37 38 39	37 38 39	37 38 39			38 39	37 38 39	37 38 39		37 38 39	37 38 39	37 38 39	37	37 38 39	37 38 39	37 38 39	37 38 39	37 38 39	37 38 39	37 38 39	37 38 39	37 38 39	37 38 39		
40 41	60		4	261.6260 277.1830	4.30 4.06	51.65 48.75	40 41	40	40 41	40 41	40 41	40 41	40 41	40 41	40 41		40 41	40 41	40 41		40 41	40 41	40		40 41	40 41	40	40 41	40 41	40 41	40 41	40 41	40 41	40 41	40 41	Middle C
42 43	62 63	D D# - Eb	4	293.6650 311.1270	3.83 3.62	46.01 43.43	42 43	43		42 43	42	42 43	42 43	42 43	42 43		43		43		43		43		42 43	42 43	42 43	42 43	42 43	43	42	43	42 43	43	43	
44 45	64 65	F	4	329.6280 349.2280	3.42	40.99 38.69	45	44 45		44 45		44 45	44 45	44 45	44 45		45		45		44 45	44 45	45		44 45	44 45	44 45	44 45	44 45	44 45		45	45	44 45	45	4
46 47 48	67	F# - Gb G G# - Ab	4 4	369.9940 391.9950 415.3050	3.04 2.87 2.71	36.52 34.47 32.54	47	46 47 48		46 47 48		46 47	46 47 48	46 47 48	46 47 48		46 47 48		47			46 47 48			46 47 48	46 47 48		46 47 48	46 47 48	46 47 48		47	46 47 48	47	47	_
49	69		4	440.0000 466.1640	2.56	30.71 28.99	49	49	49 50	49			49	49	49 50		49	49 50	49				49		49	49 50	49	49 50	49	49 50		49	49 50	49	49	A 440
51 52	71 72	B C	4 5	493.8830 523.2510	2.28 2.15	27.36 25.82	52	52		52			51	52			52	51 52	52			51 52	52			52	52	51 52	52	51 52		52	51 52	52	52	
53 54	74		5	554.3650 587.3300	2.03 1.92	24.37	54		54	54				53 54	54		54	53 54	54			53 54				54	53 54			53 54		54	53 54	54	54	
55 56 57	75 76 77		5 5 5	622.2540 659.2550 698.4560	1.81 1.71 1.61	21.71 20.50 19.35	56	56	55 56 57	56				55 56 57	56			55 56								56 57				55 56 57		56	55 56 57	56	56	_
58 59		F# - Gb	5	739.9890 783.9910	1.52	18.26 17.23	58	58	58 59	58					58 59				58 59								58 59			58 59		58	58 59	58	58	
60 61	81		5	830.6090 880.0000	1.36 1.28	16.27 15.35	61	61	60 61	61					60 61				60 61								60 61			60 61		61	60 61	61	61	
62 63	83		5	932.3280 987.7670	1.21	14.49 13.68	63	63	62 63	63					62 63				62 63											62		63	62 63	63	63	
64 65 66	84 85 86	C# - Db	6 6	1,046.5000 1,108.7300 1,174.6600	1.08 1.02 0.96	12.91 12.19 11.50	65	64 65		64 65					64				64 65 66											64 65 66			64 65		65	
67 68		D# - Eb	6	1,244.5100 1,318.5100	0.90 0.85	10.86 10.25	67		67 68	67									67 68											67 68					67	
69 70	89 90	F F# - Gb	6	1,396.9100 1,479.9800	0.81 0.76	9.67 9.13	69 70	69 70	69 70	69 70									69 70											69 70				69 70	69 70	6
71 72 73	91 92 93	G# - Ab	6 6	1,567.9800 1,661.2200	0.72 0.68 0.64	8.62 8.13 7.68	72			71									71 72 73											71 72 73				71	71 72 73	
74 75		A# - Bb	6	1,760.0000 1,864.6600 1,975.5300	0.64 0.60 0.57	7.68 7.25 6.84	74	74 75	74										74 75											73					74 75	
76 77	96		7	2,093.0000 2,217.4600	0.54 0.51	6.46 6.09	76	76 77	76										76																76	
78 79	98 99	D D# - Eb	7	2,349.3200 2,489.0200	0.48 0.45	5.75 5.43	78 79	78 79	78 79																											
80 81	100 101	F	7	2,637.0200 2,793.8300	0.43	5.12 4.84	81	80 81	81																											7
82 83 84	103	F# - Gb G G# - Ab	7 7 7	2,959.9600 3,135.9600 3,322.4400	0.38 0.36 0.34	4.56 4.31 4.07		82 83 84	83																											
85 86	105 106	A A# - Bb	7	3,520.0000 3,729.3100	0.32 0.30	3.84 3.62	85 86	85 86	85 86																											
87 88	107 108	B C	7 8	3,951.0700 4,186.0100	0.28 0.27	3.42 3.23	87 88	87 88	87 88																											
	110		8				0		0																											8
	112 113 114		8 8				0		0																											
		F# - Gb	8				0																													
	117 118	G# - Ab A	8				0																													
	120		8				0																													
	121 122 123	C# - Db	9				0 0 0																													
		D# - Eb					0																													
	126		9				0																													