

Speed of Sound 345,00000 m/s
Tuning Freq of A₄ 440,00000 Hz
Half Step $2^{(1/12)}$ 1,05946

Audiable with Passive Buzzer

$$1+(7*7)+1= 51$$

Octave	Note	Freq	WL	Period	Time High	Time High Recal for Sketch
		Hz	m	μS	μS	
0	C	16,35160	21,09886	61156,10293	30578,05146	30578
0	C#	17,32391	19,91467	57723,67462	28861,83731	28862
0	D	18,35405	18,79694	54483,89370	27241,94685	27242
0	D#	19,44544	17,74195	51425,94772	25712,97386	25713
0	E	20,60172	16,74617	48539,63106	24269,81553	24270
0	F	21,82676	15,80628	45815,31091	22907,65545	22908
0	F#	23,12465	14,91914	43243,89509	21621,94755	21622
0	G	24,49971	14,08180	40816,80176	20408,40088	20408
0	G#	25,95654	13,29145	38525,93070	19262,96535	19263
0	A	27,50000	12,54545	36363,63636	18181,81818	18182
0	A#	29,13524	11,84133	34322,70228	17161,35114	17161
0	B	30,86771	11,17673	32396,31702	16198,15851	16198
1	C	32,70320	10,54943	30578,05146	15289,02573	15289
1	C#	34,64783	9,95733	28861,83731	14430,91865	14431
1	D	36,70810	9,39847	27241,94685	13620,97343	13621
1	D#	38,89087	8,87098	25712,97386	12856,48693	12856
1	E	41,20344	8,37309	24269,81553	12134,90777	12135
1	F	43,65353	7,90314	22907,65545	11453,82773	11454
1	F#	46,24930	7,45957	21621,94755	10810,97377	10811
1	G	48,99943	7,04090	20408,40088	10204,20044	10204
1	G#	51,91309	6,64572	19262,96535	9631,48268	9631
1	A	55,00000	6,27273	18181,81818	9090,90909	9091
1	A#	58,27047	5,92067	17161,35114	8580,67557	8581
1	B	61,73541	5,58836	16198,15851	8099,07926	8099
2	C	65,40639	5,27471	15289,02573	7644,51287	7645
2	C#	69,29566	4,97867	14430,91865	7215,45933	7215
2	D	73,41619	4,69924	13620,97343	6810,48671	6810
2	D#	77,78175	4,43549	12856,48693	6428,24347	6428
2	E	82,40689	4,18654	12134,90777	6067,45388	6067
2	F	87,30706	3,95157	11453,82773	5726,91386	5727
2	F#	92,49861	3,72979	10810,97377	5405,48689	5405
2	G	97,99886	3,52045	10204,20044	5102,10022	5102
2	G#	103,82617	3,32286	9631,48268	4815,74134	4816
2	A	110,00000	3,13636	9090,90909	4545,45455	4545
2	A#	116,54094	2,96033	8580,67557	4290,33778	4290
2	B	123,47083	2,79418	8099,07926	4049,53963	4050
3	C	130,81278	2,63736	7644,51287	3822,25643	3822
3	C#	138,59132	2,48933	7215,45933	3607,72966	3608
3	D	146,83238	2,34962	6810,48671	3405,24336	3405
3	D#	155,56349	2,21774	6428,24347	3214,12173	3214
3	E	164,81378	2,09327	6067,45388	3033,72694	3034

3	F	174,61412	1,97579	5726,91386	2863,45693	2863
3	F#	184,99721	1,86489	5405,48689	2702,74344	2703
3	G	195,99772	1,76022	5102,10022	2551,05011	2551
3	G#	207,65235	1,66143	4815,74134	2407,87067	2408
3	A	220,00000	1,56818	4545,45455	2272,72727	2273
3	A#	233,08188	1,48017	4290,33778	2145,16889	2145
3	B	246,94165	1,39709	4049,53963	2024,76981	2025
4	C	261,62557	1,31868	3822,25643	1911,12822	1911
4	C#	277,18263	1,24467	3607,72966	1803,86483	1804
4	D	293,66477	1,17481	3405,24336	1702,62168	1703
4	D#	311,12698	1,10887	3214,12173	1607,06087	1607
4	E	329,62756	1,04664	3033,72694	1516,86347	1517
4	F	349,22823	0,98789	2863,45693	1431,72847	1432
4	F#	369,99442	0,93245	2702,74344	1351,37172	1351
4	G	391,99544	0,88011	2551,05011	1275,52505	1276
4	G#	415,30470	0,83072	2407,87067	1203,93533	1204
4	A	440,00000	0,78409	2272,72727	1136,36364	1136
4	A#	466,16376	0,74008	2145,16889	1072,58445	1073
4	B	493,88330	0,69855	2024,76981	1012,38491	1012
5	C	523,25113	0,65934	1911,12822	955,56411	956
5	C#	554,36526	0,62233	1803,86483	901,93242	902
5	D	587,32954	0,58740	1702,62168	851,31084	851
5	D#	622,25397	0,55444	1607,06087	803,53043	804
5	E	659,25511	0,52332	1516,86347	758,43174	758
5	F	698,45646	0,49395	1431,72847	715,86423	716
5	F#	739,98885	0,46622	1351,37172	675,68586	676
5	G	783,99087	0,44006	1275,52505	637,76253	638
5	G#	830,60940	0,41536	1203,93533	601,96767	602
5	A	880,00000	0,39205	1136,36364	568,18182	568
5	A#	932,32752	0,37004	1072,58445	536,29222	536
5	B	987,76660	0,34927	1012,38491	506,19245	506
6	C	1046,50226	0,32967	955,56411	477,78205	478
6	C#	1108,73052	0,31117	901,93242	450,96621	451
6	D	1174,65907	0,29370	851,31084	425,65542	426
6	D#	1244,50793	0,27722	803,53043	401,76522	402
6	E	1318,51023	0,26166	758,43174	379,21587	379
6	F	1396,91293	0,24697	715,86423	357,93212	358
6	F#	1479,97769	0,23311	675,68586	337,84293	338
6	G	1567,98174	0,22003	637,76253	318,88126	319
6	G#	1661,21879	0,20768	601,96767	300,98383	301
6	A	1760,00000	0,19602	568,18182	284,09091	284
6	A#	1864,65505	0,18502	536,29222	268,14611	268
6	B	1975,53321	0,17464	506,19245	253,09623	253
7	C	2093,00452	0,16483	477,78205	238,89103	239
7	C#	2217,46105	0,15558	450,96621	225,48310	225
7	D	2349,31814	0,14685	425,65542	212,82771	213
7	D#	2489,01587	0,13861	401,76522	200,88261	201
7	E	2637,02046	0,13083	379,21587	189,60793	190
7	F	2793,82585	0,12349	357,93212	178,96606	179
7	F#	2959,95538	0,11656	337,84293	168,92147	169

7	G	3135,96349	0,11001	318,88126	159,44063	159
7	G#	3322,43758	0,10384	300,98383	150,49192	150
7	A	3520,00000	0,09801	284,09091	142,04545	142
7	A#	3729,31009	0,09251	268,14611	134,07306	134
7	B	3951,06641	0,08732	253,09623	126,54811	127
8	C	4186,00904	0,08242	238,89103	119,44551	119
8	C#	4434,92210	0,07779	225,48310	112,74155	113
8	D	4698,63629	0,07343	212,82771	106,41385	106
8	D#	4978,03174	0,06930	200,88261	100,44130	100
8	E	5274,04091	0,06541	189,60793	94,80397	95
8	F	5587,65170	0,06174	178,96606	89,48303	89
8	F#	5919,91076	0,05828	168,92147	84,46073	84
8	G	6271,92698	0,05501	159,44063	79,72032	80
8	G#	6644,87516	0,05192	150,49192	75,24596	75
8	A	7040,00000	0,04901	142,04545	71,02273	71
8	A#	7458,62018	0,04626	134,07306	67,03653	67
8	B	7902,13282	0,04366	126,54811	63,27406	63
9	C	8372,01809	0,04121	119,44551	59,72276	60
9	C#	8869,84419	0,03890	112,74155	56,37078	56
9	D	9397,27257	0,03671	106,41385	53,20693	53
9	D#	9956,06348	0,03465	100,44130	50,22065	50
9	E	10548,08182	0,03271	94,80397	47,40198	47
9	F	11175,30341	0,03087	89,48303	44,74151	45
9	F#	11839,82153	0,02914	84,46073	42,23037	42
9	G	12543,85395	0,02750	79,72032	39,86016	40
9	G#	13289,75032	0,02596	75,24596	37,62298	38
9	A	14080,00000	0,02450	71,02273	35,51136	36
9	A#	14917,24037	0,02313	67,03653	33,51826	34
9	B	15804,26564	0,02183	63,27406	31,63703	32