

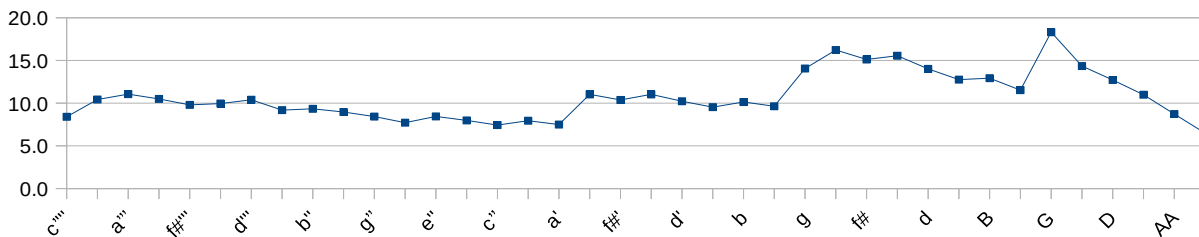
Kildare harp string chart



Suggested string chart, 1-1

Simon Chadwick, November 2020

Pin	Shoe	freq	Note	Length (cm)	Length (in)	Gauge (mm)	Gauge (in)	Tension	Metal
1	1	2092	c'''	5.5	2.2	0.48	0.019	8.4	Yellow brass
2	2	1972	b'''	6.5	2.6	0.48	0.019	10.4	Yellow brass
3	3	1760	a'''	7.5	3.0	0.48	0.019	11.1	Yellow brass
4	4	1568	g'''	8.2	3.2	0.48	0.019	10.5	Yellow brass
5	5	1396	f#'''	8.9	3.5	0.48	0.019	9.8	Yellow brass
6	6	1318	e'''	9.5	3.7	0.48	0.019	9.9	Yellow brass
7	7	1174	d'''	10.9	4.3	0.48	0.019	10.4	Yellow brass
8	8	1046	c'''	11.5	4.5	0.48	0.019	9.2	Yellow brass
9	9	986	b''	12.3	4.8	0.48	0.019	9.3	Yellow brass
10	10	880	a''	13.5	5.3	0.48	0.019	9.0	Yellow brass
11	11	784	g''	14.7	5.8	0.48	0.019	8.4	Yellow brass
12	12	698	f#''	15.8	6.2	0.48	0.019	7.7	Yellow brass
13	13	659	e''	17.5	6.9	0.48	0.019	8.4	Yellow brass
14	14	587	d''	19.1	7.5	0.48	0.019	8.0	Yellow brass
15	15	523	c''	20.7	8.2	0.48	0.019	7.4	Yellow brass
16	16	493	b'	22.7	8.9	0.48	0.019	7.9	Yellow brass
17	17	440	a'	24.7	9.7	0.48	0.019	7.5	Yellow brass
18	18	392	g'	26.9	10.6	0.6	0.024	11.0	Yellow brass
19	19	349	f#'	29.3	11.5	0.6	0.024	10.4	Yellow brass
20	20	329.5	e'	32.0	12.6	0.6	0.024	11.0	Yellow brass
21	21	293.5	d'	34.6	13.6	0.6	0.024	10.2	Yellow brass
22	22	261.5	c'	37.5	14.8	0.6	0.024	9.5	Yellow brass
23	23	246.5	b	41.0	16.2	0.6	0.024	10.1	Yellow brass
24	24	220	a	44.8	17.7	0.6	0.024	9.6	Yellow brass
25	25	196	g	48.6	19.1	0.75	0.03	14.1	Yellow brass
26	26	196	g	52.2	20.6	0.75	0.03	16.2	Yellow brass
27	27	174.5	f#	56.6	22.3	0.75	0.03	15.1	Yellow brass
28	28	164.75	e	60.8	24.0	0.75	0.03	15.5	Yellow brass
29	29	146.75	d	64.8	25.5	0.75	0.03	14.0	Yellow brass
30	30	130.75	c	69.4	27.3	0.75	0.03	12.8	Yellow brass
31	31	123.25	B	74.1	29.2	0.75	0.03	12.9	Yellow brass
32	32	110	A	78.4	30.9	0.75	0.03	11.5	Yellow brass
33	33	98	G	83.2	32.8	1	0.039	18.3	Yellow brass
34	34	82.375	E	87.6	34.5	1	0.039	14.3	Yellow brass
35	35	73.375	D	92.6	36.5	1	0.039	12.7	Yellow brass
36	36	65.375	C	96.6	38.1	1	0.039	11.0	Yellow brass
37a	37	55	AA	102.3	40.3	1	0.039	8.7	Yellow brass
39	38	49	GG	99.0	39.0	1	0.039	6.5	Yellow brass
	39								



Measurements are calculated from laser-scan data generated by Elaina Sugrue in 2017, and represent the harp in its current state but using blocked pin holes 37 instead of pin 37
 Estimated accuracy of string lengths +/- 2mm

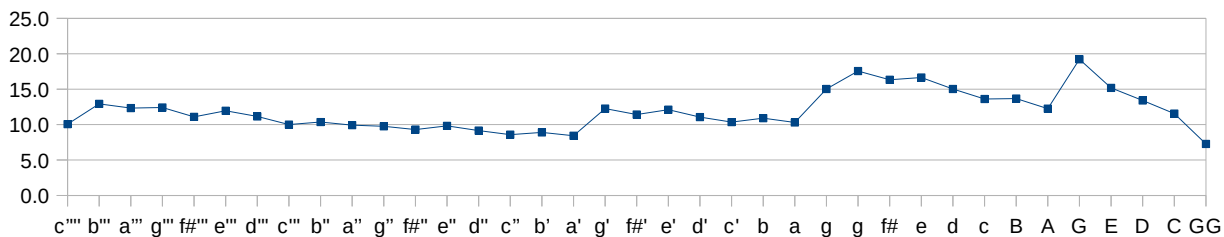
Kildare harp string chart



Suggested string chart, 1-2

Simon Chadwick, January 2021

Pin	Shoe	freq	Note	Length (cm)	Length (in)	Gauge (mm)	Gauge (in)	Tension	Metal
1	2	2092	c'''	6.3	2.5	0.48	0.019	10.1	soft iron
2	3	1972	b'''	7.6	3.0	0.48	0.019	12.9	soft iron
3	4	1760	a'''	8.3	3.3	0.48	0.019	12.3	soft iron
4	5	1568	g'''	9.4	3.7	0.48	0.019	12.4	soft iron
5	6	1396	f#'''	9.9	3.9	0.48	0.019	11.1	soft iron
6	7	1318	e'''	10.9	4.3	0.48	0.019	12.0	soft iron
7	8	1174	d'''	11.9	4.7	0.48	0.019	11.2	soft iron
8	9	1046	c'''	12.6	5.0	0.48	0.019	10.0	soft iron
9	10	986	b''	13.6	5.4	0.48	0.019	10.4	soft iron
10	11	880	a''	14.9	5.9	0.48	0.019	9.9	soft iron
11	12	784	g''	15.8	6.2	0.48	0.019	9.8	Yellow brass
12	13	698	f#''	17.3	6.8	0.48	0.019	9.3	Yellow brass
13	14	659	e''	18.9	7.4	0.48	0.019	9.8	Yellow brass
14	15	587	d''	20.5	8.1	0.48	0.019	9.1	Yellow brass
15	16	523	c''	22.2	8.8	0.48	0.019	8.6	Yellow brass
16	17	493	b'	24.0	9.5	0.48	0.019	8.9	Yellow brass
17	18	440	a'	26.2	10.3	0.48	0.019	8.4	Yellow brass
18	19	392	g'	28.4	11.2	0.6	0.024	12.3	Yellow brass
19	20	349	f#'	30.8	12.1	0.6	0.024	11.4	Yellow brass
20	21	329.5	e'	33.5	13.2	0.6	0.024	12.1	Yellow brass
21	22	293.5	d'	36.0	14.2	0.6	0.024	11.1	Yellow brass
22	23	261.5	c'	39.1	15.4	0.6	0.024	10.3	Yellow brass
23	24	246.5	b	42.6	16.8	0.6	0.024	10.9	Yellow brass
24	25	220	a	46.3	18.2	0.6	0.024	10.3	Yellow brass
25	26	196	g	50.2	19.8	0.75	0.03	15.0	Yellow brass
26	27	196	g	54.3	21.4	0.75	0.03	17.6	Yellow brass
27	28	174.5	f#	58.8	23.2	0.75	0.03	16.3	Yellow brass
28	29	164.75	e	62.9	24.8	0.75	0.03	16.6	Yellow brass
29	30	146.75	d	67.1	26.4	0.75	0.03	15.0	Yellow brass
30	31	130.75	c	71.7	28.3	0.75	0.03	13.6	Yellow brass
31	32	123.25	B	76.2	30.0	0.75	0.03	13.7	Yellow brass
32	33	110	A	80.8	31.9	0.75	0.03	12.3	Yellow brass
33	34	98	G	85.2	33.6	1	0.039	19.2	Yellow brass
34	35	82.375	E	90.1	35.5	1	0.039	15.2	Yellow brass
35	36	73.375	D	95.1	37.5	1	0.039	13.4	Yellow brass
36	37	65.375	C	99.1	39.0	1	0.039	11.6	Yellow brass
37a	38	49	GG	104.8	41.3	1	0.039	7.3	Yellow brass
	39							441.3	



Measurements are calculated from laser-scan data generated by Elaina Sugrue in 2017, and represent the harp in its current state but using blocked pin holes 37a instead of pin 37
 Estimated accuracy of string lengths +/- 2mm