

## Design Brief for the Sound Activity

Your school is on a field trip to the city to listen to a rock band concert. After reaching arriving at the concert, you were told that the band's instruments were damaged during travel. The band needs your help to design and build a stringed instrument with the available materials. Your design must satisfy the following criteria and constraints.

### Criteria:

Produce three different sounds (pitch)

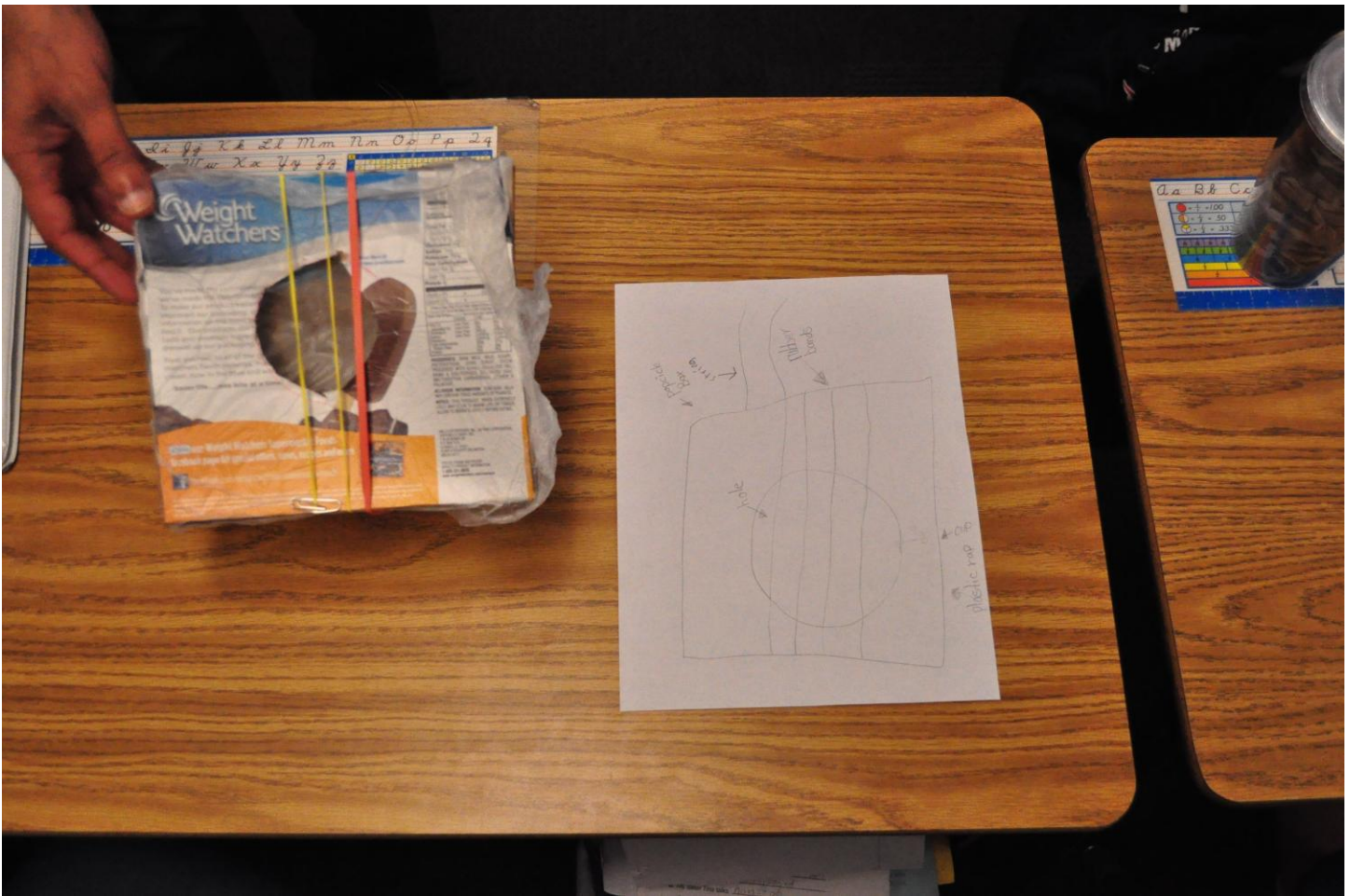
Your instrument must include at least one string

### Constraints:

Only available material should be used

The instrument should be no longer than 30 centimeters (or one foot)

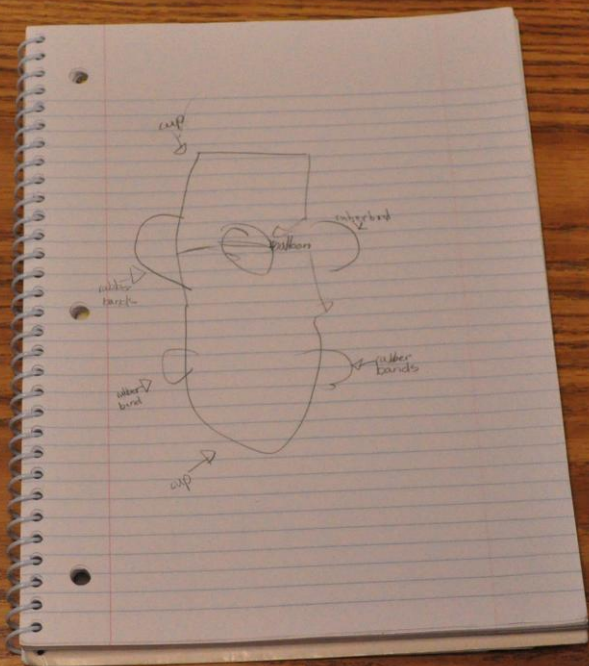
## Examples of Student Instrument Designs



Mm Nn Oo Pp Qq

4 88

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60



Aa Bb

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60



Handwriting practice sheet with cursive letters and a name.

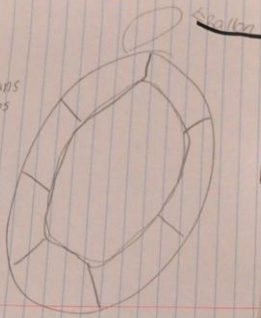
Tt Dd Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq  
Rr Ss Uu Vv Ww Xx Yy Zz

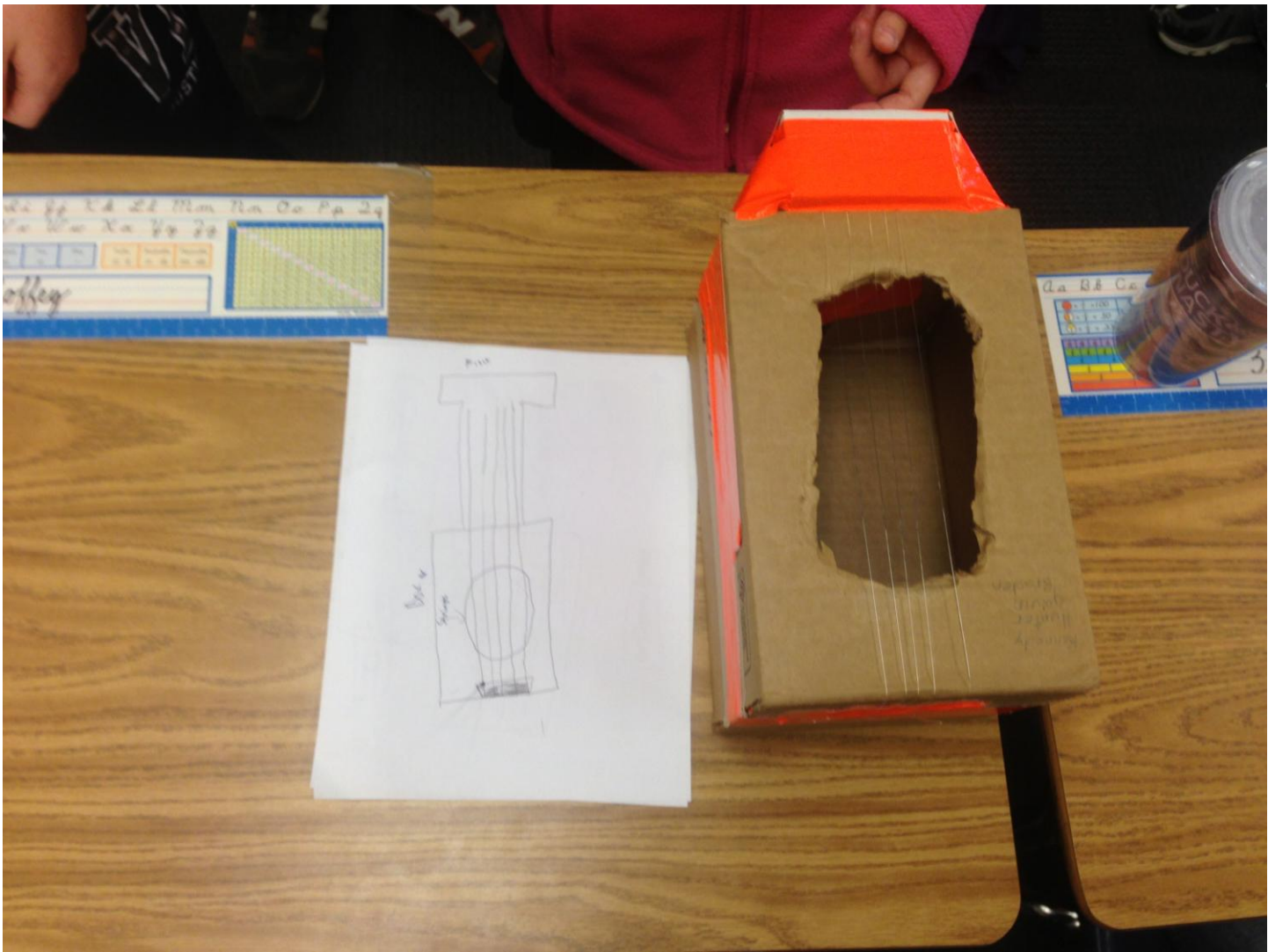
Student	Teacher	Parent	Class	Grade	Section	Room	Teacher	Parent

A. Gavin Coffey

Handwritten list of materials and a diagram.

rubber bands  
paper clips  
balloon  
tape







Handwriting practice sheet with a ruler and a grid of numbers.

Handwritten letters: *Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz*

One	Two	Hundreds	Thousands
1	10 20	100 200	1000 2000

Grid of numbers (1-100):

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

