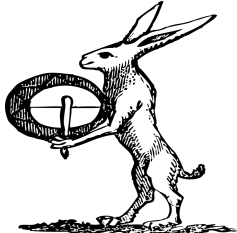


Name: _____

Engage #1: Scientific Practice Worksheet: Is the sound traveling?

Circle YES if the statement is demonstrating sound traveling. Circle NO if the statement is not demonstrating sound traveling

1. Mouth speaking  _____ YES _____ NO

2. Drum being hit  _____ YES _____ NO

3. Standing tree  _____ YES _____ NO

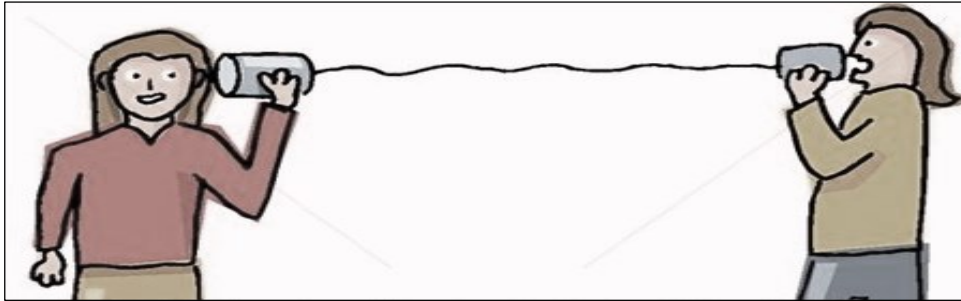
4. Phone and ear listening  _____ YES _____ NO

5. Baby sleeping  _____ YES _____ NO

6. In order to have sound, you need _____

Whispering Through Tin Cans

1) What do you think will happen to the sound of someone whispering through a tin can?



Circle all the possible answers.

I will hear a buzz.

I will hear a hum.

I will hear the whispered words.

I will not hear anything.

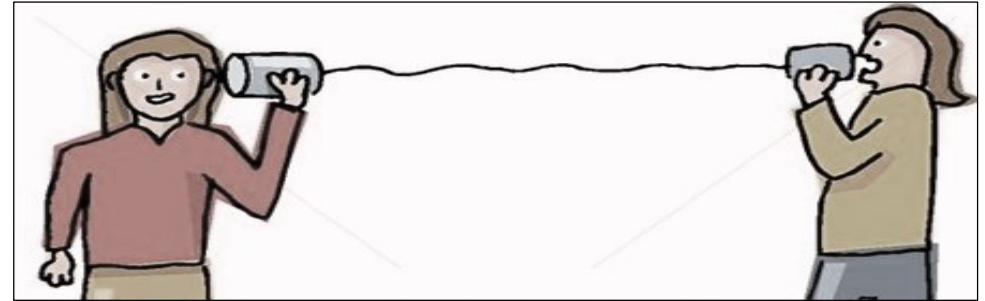
2) Does shortening the string affect the sound?

YES or NO

3) The larger the string, the _____ sound.
(higher, lower)

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Date: _____

TALLY SHEET (3 trials for each type of cup) | || ||| |||| ~~|||||~~



Styrofoam cup telephone (Trial A)

--	--



Paper cup telephone (Trial B)

--	--

GRAPH YOUR TALLY MARKS -color the number for each

3		
2		
1		
Number of marks	Styrofoam Cup	Paper Cup

Results

From the tally marks, I understood that the _____ cup

worked _____ the _____ cup

(better than / the same as)

for making a telephone.

****CLASS GRAPH****

_____ students found that **styrofoam cup** caused the string to vibrate louder.

_____ students found that the **paper cup** caused the string to vibrate louder.

_____ students found that the **sound** was **equal** in both cups.

DATE: _____

LAB #2: Does the size of the cup make a difference? How could we test that?

If we change the _____ what will happen to how much we can hear?

Variables	Trial A	Trial B
Cup Material: (constant)	Paper	Paper
Cup Size: (changing)	Large	Small
Yarn Length: (constant)	3 meters	3 meters

I predict that a whisper will cause a vibration and travel

better through a _____ cup.
larger / smaller

TALLY SHEET (3 trials for each type of cup)



Large cup telephone (Trial A)

--	--



Small cup telephone (Trial B)

--	--

GRAPH YOUR TALLY MARKS -color the number for each

3		
2		
1		
Number of marks	Large Cup	Small Cup

Results

From the tally marks, I understood that the _____ cup

worked _____ the _____ cup

(better than / the same as)

for making a telephone.

****CLASS GRAPH****

_____ students found that **large cup** caused the string to vibrate louder.

_____ students found that the **small cup** caused the string to vibrate louder.

_____ students found that the **sound** was **equal** in both cups.