Name	_Period	Date	
	Teleph	ione lab	
Background information:			X
The telephone is a device that takes ad	lvantage of the way in	n which waves travel	through various mediums. Years ago,

The telephone is a device that takes advantage of the way in which waves travel through various mediums. Years ago, all telephones were connected through a land line through which sound waves would travel to the person on the other end. (That is right, no cell phones or cordless phones). A simple way to harness these waves is to make a sound wave travel through a string.



<u>Materials</u>: 2 paper cups, 1 string, one pencil <u>Procedure:</u>

-poke a hole in the end of each cup

- thread the string through the cup

-Write down a list of things you plan to say (do

not show your partner)

-Pull the string tight, and whisper your phrases into the cup.

-Then listen to the phrases of your partner

-Write down what they say

Questions:

1. Write the phrases you plan to say to your partner: be appropriate and write complete sentences.

α.	
b.	
	······································
c.	

2. Record the phrases that your partner said according to what you heard.

α.	
b.	
c.	
- •	

 Explain the steps that cause the sound wave to travel from your voice box to your partners ear? Include the terms vibration, and medium.

4. Explain what would happen if someone pinched the string in between the two cups?

- 5. Explain what would happen if a bigger cup was used?
- 6. What would happen if a smaller string was used?
- 7. If you took two sets of phones and crossed them by making an "X" shape, would all of the people be able to hear the sounds? Why or why not?
