Activate 1

Physics 2.2 Sound and energy transfer.

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Step 1.

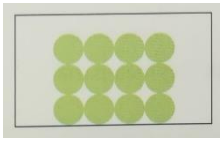
1. A _____ produces a sound wave.

2. This makes the air _____ move backwards and forwards which produces a sound wave.

3. Sound needs a _____ like a _____, _____ or _____ to travel through.

4. It cannot travel through empty space, a _____, because there are no air molecules to vibrate.

A. _____ B._____ C. _____



_____ _____ _____

Step 2. String Cup Experiment.

Ask these questions with your group members when testing the string cups.

1. How well do these cups vibrate to produce sound?
2. How well does sound waves travel through **"medium"?**
3. Is communication better if the "medium" is taut or loose?

When you finish your experiments, decide in your group what is the best and worst combination.

Medium
String
Cotton
Ribbon
Aluminum
Bungee Cord

- What is the best combination for communication? (Cups, medium, taut or loose.)
- What is the worst combination for communication? (Cups, medium, taut or loose.)

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Scoring.

Excellent – 5 Points OK – 3 Points Terrible – 1 Point

Good – 4 Points Bad – 2 Point

Write down your score below.

Combination	Cup	Medium	Taut or loose	Score	Group
A	Paper	Cotton	Taut		
	Paper	Cotton	Loose		
B	Paper	Ribbon	Taut		
	Paper	Ribbon	Loose		
C	Paper	Aluminum	Taut		
	Paper	Aluminum	Loose		
D	Paper	Bungee Cord	Taut		
	Paper	Bungee Cord	Loose		
E	Paper	String	Taut		
	Paper	String	Loose		
F	Plastic	Cotton	Taut		
	Plastic	Cotton	Loose		
G	Plastic	Ribbon	Taut		
	Plastic	Ribbon	Loose		
H	Plastic	Aluminum	Taut		
	Plastic	Aluminum	Loose		
I	Plastic	Bungee Cord	Taut		
	Plastic	Bungee Cord	Loose		
J	Plastic	String	Taut		
	Plastic	String	Loose		

Evaluation.

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Date:_____ ID:_____

Name:_____