**King Gong – Procedures**

***Question***

What happens when you tap a metal hangar on a string and with cups for earpieces?

***Vocabulary***

* ***Medium*** – something that through which sound can travel.
* ***Vibration*** – rapid movement of something – air or some other object.

***Materials***

* Two plastic cups
* String
* Two paperclips
* Scissors
* Wire hanger
* Tape
* Object to tap hanger



***Procedure***

1. Cut two segments of string, each about 2 feet long.

2. Pass one of the segments through the cup hole. Tie the end of this string segment that exits the inner side of the cup to a paper clip.

3. Repeat this process with the second cup.

4. Tie the free end of both strings to the hood of a metal hanger.

5. Place each cup over your outer ear. Let the hanger hang freely. Have a classmate tap on the hanger.

6. Go around and bump your hanger against other objects.

7. Repeat steps 5 & 6 without the cups over your ears.

8. Repeat steps 5 & 6 with an index finger in your ear.

9. Record your results on the worksheet.

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**King Gong**

***Prediction***

Record what you think will happen when you tap the hangar.

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***Observation and Analysis***

1. How loud was the sound?

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2. What principal of sound does this activity demonstrate?

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3. What did you learn about sound in this activity?

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