

Cup Phone Challenge

Name _____ Date _____ Hour _____

Focus Question: How far can sound travel through a cup phone?

Planning Questions

1. Through what medium do we most often hear sound?
2. What other mediums can sound travel through?
3. What starts a sound wave?
4. What type of mechanical wave is a sound wave?
5. How do you think increasing distance affects the ability of sound to travel through a medium?
6. Develop a plan to answer the focus question. Materials that you can use are set out for you and your group.

Conclusion

1. What mediums did the sound travel through from the time it left one person's mouth to the time it entered the second person's ear?
2. Would the second person still be able to hear the sound if the string was cut? Explain.
3. What was the maximum distance you could make the string and still hear the sound? Why couldn't the string be any longer?

