

Student Name: _____

Class: _____

Due Date: _____

Introduction to Sound and Hearing

Welcome to this exciting homework assignment on Sound and Hearing!

In this activity, you will learn about the basic concept of sound, the different parts of the human ear, and the importance of hearing in our daily lives.

What is Sound?

1. What is sound?
2. How is sound produced?

Activity 1: Sound Experiment

Experiment: Making Sound with a Ruler

1. Hold a metal ruler vertically and strike it gently with a spoon.
2. Observe what happens and record your findings.
3. Repeat the experiment, but this time hold a glass near the ruler.
4. Record your observations.

How Does Sound Travel?

1. What happened when you held the glass near the ruler?
2. How does sound travel from one place to another?

Activity 2: Label the Ear

Diagram: The Human Ear

Label the different parts of the ear, including:

- Outer ear
- Eardrum
- Middle ear
- Cochlea
- Auditory nerve

Write a short sentence describing the function of each part.

Ear Functions

1. What is the role of the outer ear?
2. What is the function of the eardrum?

Activity 3: Hearing and Daily Life

Importance of Hearing

How does hearing affect your daily life?

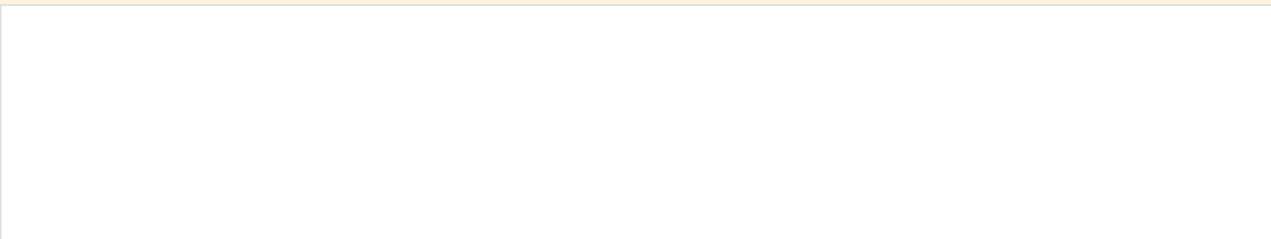
Write down at least three ways in which hearing is important to you.



Drawing Activity: Hearing in Daily Life

Draw a picture to illustrate one of the ways you listed.

Write a short paragraph explaining your drawing.



Activity 4: Sound Wave Art

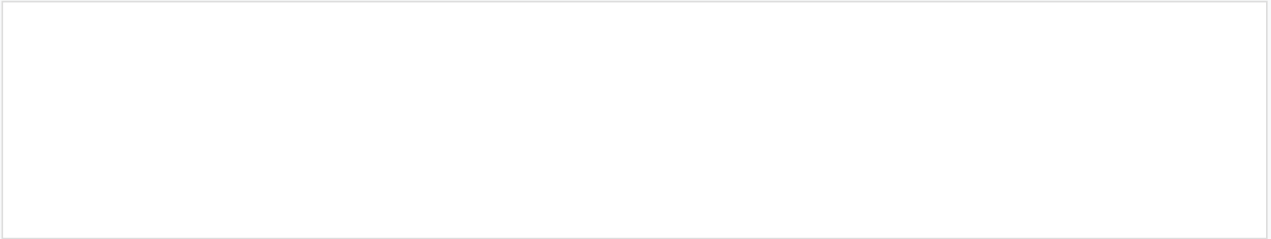
What are Sound Waves?

Research and learn about sound waves.

Draw a picture of a sound wave using a ruler and pencil.

Color the sound wave using colored pencils or markers.

Write a short paragraph explaining what sound waves are and how they are produced.

A large, empty rectangular box with a thin black border, intended for a student to draw a sound wave and write a paragraph explaining it.

Activity 5: Design a Hearing Aid

What is a Hearing Aid?

Research and learn about hearing aids.

Design and create a model of a hearing aid using the materials provided.

Write a short paragraph explaining how your hearing aid works and who it would be suitable for.

Conclusion

Review what you have learned about sound and hearing.

Think about how you can apply your knowledge in your daily life.

Assessment

1. Have you completed all activities and experiments?
2. Have you answered all questions to the best of your ability?
3. Have you demonstrated an understanding of the basic concept of sound and how it is produced?
4. Have you identified the different parts of the human ear and their functions?
5. Have you recognized the importance of hearing and its impact on daily life?

Encourage your child to ask questions and think critically about the activities and experiments.

Provide guidance and assistance when needed, but allow your child to complete the work independently.

Discuss the importance of hearing and its impact on daily life with your child.

Encourage your child to use their knowledge and skills to design and create a hearing aid or sound wave art.