**Sound Research Project.**

**By the end of this lesson you will be able to:**

Explain how earphones can cause premature deafness in people in their early 20’s.

**Use the internet to research and answer the following questions in your book:**

1. Draw a diagram to show how sound waves come from earphones.
2. How do sound waves from earphones damage the delicate internal structure of the outer ear? (Be specific as to the part that is damaged.)
3. Draw a diagram to show the structure of the ear – from outer ear to auditory nerve.
4. Explain how sound waves move through air and consequently how they damage the ear.
5. State how sound is measured and its speed.

**Suggested Resources:**

* <https://youtube.com> “Incredible Human Machine 2/9”
* <https://youtube.com> search How do ears work
* <https://youtube.com> search how do earphones damage ears

**Sound Research Project.**

**By the end of this lesson you will be able to:**

Explain how earphones can cause premature deafness in people in their early 20’s.

**Use the internet to research and answer the following questions in your book:**

1. Draw a diagram to show how sound waves come from earphones.
2. How do sound waves from earphones damage the delicate internal structure of the outer ear? (Be specific as to the part that is damaged.)
3. Draw a diagram to show the structure of the ear – from outer ear to auditory nerve.
4. Explain how sound waves move through air and consequently how they damage the ear.
5. State how sound is measured and its speed.

**Suggested Resources:**

* <https://youtube.com> “Incredible Human Machine 2/9”
* <https://youtube.com> search How do ears work
* <https://youtube.com> search how do earphones damage ears