

Submitted by: GENERATION CURES

**TITLE:** PRODUCING SOUND

**SUBJECT:** Science

**GRADE:** 5th

**RECOMMENDED TIME:** 55 minutes

**GENERATION CURES CONTENT:** Zebrafish Webisode 2-Instruments of Change

**LEARNING GOALS:**

Students will review the parts and functions of the respiratory system. Students will focus specifically upon noise and sound production.

**RESOURCES/MATERIALS NEEDED:**

- Computer / Internet / Projector
- Pen / Pencil / Paper
- Zebrafish Webisode 2-Instruments of Change ([www.kids.generationcures.org](http://www.kids.generationcures.org))
- Instruments: stringed instrument (guitar/violin), wind instrument (flute/whistle), bell, balloons
- Dictionary: Define
  - Inhalation- the act of drawing in air for breathing, or in some cases, for producing sounds or taking medication
  - Exhalation- the act of pushing air out of the lungs for respiration and producing sound
  - Larynx- a part of the human body also called the “voice box.” It is located in the upper portion of the trachea (‘windpipe’) and contains the vocal chords. The larynx channels air for respiration and producing sound.
  - Vocal cords- two mucous membranes located in the larynx, that generate sound which reverberates in the cavity of the larynx.

**BACKGROUND:**

In Webisode #2 of Zebrafish, the teens get together for their second band meeting. Vita doesn't have much hope – none of the other band members plays an instrument. Disaster seems certain until computer whiz Jay has a brilliant idea. The kids can create a virtual band. As other kids reveal their talents, it seems like Zebrafish might come to life after all – if the kids work as a team. Vita can play music and sing, Walt can use his artistic skills to draw the band, and Tanya can think of a way to use the video to raise public awareness about a cause. As for Plinko, well, his talents aren't quite clear yet!