

How to use these Dangerous Decibels' materials

These resources are a supplement to the “Dangerous Decibels Classroom Program” and provide a series of hands-on, minds-on science activities for the K-12 classroom or intro university course. These activities may be done prior to or after the classroom program. Some may be incorporated into the classroom program if time is available. The activity format has been teacher-tested. Care has been taken to provide content explanations for the teacher or interested gifted student who wants to explore further. In addition to rich science content, each lesson emphasizes the behaviors needed to reduce the risk of noise-induced hearing loss, as well as grade-level appropriate science process skills. Because teachers may choose to do only one activity, you will find some redundancy in the content and behavioral messages from one activity to the next. You will find that all activities in this Resource Guide:

- are safe
- are affordable
- are practical and easy to use
- have been classroom tested
- are supported by rich content
- have been reviewed by K-12 teachers
- have been reviewed by science content specialists
- have been reviewed by hearing specialists
- were tested in primary, intermediate, and middle school classrooms
- have been aligned with national science standards
- are linked to the behavioral objectives of Dangerous Decibels

For your convenience the curriculum is organized into detailed, easy-to-follow sections found below with individual sections designated.

- **science topics** that are covered
- **science process skills** that are used
- **time required** for each stage of the activity:
 - **advance preparation** for teacher (does not include gathering supplies),
 - **set-up** before class,
 - doing the **activity** with students, and
 - **clean-up** after the activity
 - **materials** supplies list
- detailed step-by-step **activity** procedure instructions
- hints for **introducing the activity** in a manner that facilitates inquiry process, speculation, independent thinking, and discovery
- hints to guide **class discussion** and encourage student analysis and conclusion building
- **explanations** of in-depth scientific content for teachers and interested students
- **optional extensions** and **cross curricular connections** to disciplines, such as math or music, for teachers who enjoy extending lessons and for those who integrate disciplines throughout their lessons