

## Ear In-A-Box

The Ear In-A-Box features five stations plus multiple supplemental activities on the ear. At each station, students answer questions on their station notes, which can be collected for assessment or simply used to keep students on task. Supplies listed for stations are all included in the Box.

### Ear station activities:

1. **Anatomy** – Students use a giant size ear model, inner ear graphic and the otoscope to examine each other's ears and label the anatomy of the ear on a template
2. **Dangerous Decibels** – We've taken part of this national program aimed to teach about sound levels that are too loud for ear health, and put it into this station activity. A sound meter and hair dryer help students understand decibel levels. Pipe cleaners make a great visual for damaged "hair cells".
3. **Careers** – Students take the roles of health care professionals and decide how to help the hypothetical patient given a set of common symptoms.
4. **Hearing loss** – Students use the modified roll-up piano to learn the difference between pitch and volume to better understand partial hearing loss. Students also learn the measurements of Hz and Db.
5. **The sound pathway** – Students learn about energy transduction by putting sound travel in order from hearing to brain.

### Extensions to the ear stations include:

- **Bill Nye** – DVD, Sound, and curriculum
- **Dangerous Decibels** – DVD with curriculum
- **NIH Curriculum: *How Your Brain Understands What Your Ear Hears*** – Complete set of five lessons with resources, student worksheets, and North Dakota-specific content standards.
- **OHSU interview film** – Local middle school students interview OHSU ear-health professionals
- **Country Doctors video** – One-hour PBS video explaining the need for local health care providers
- **Blueprint for Health** – Poster of the ear
- **Ear Model** – With laminated reference card
- **Hearing aid**
- **Roll-up piano**
- **Books:**
  - *Eyes and Ears*
  - *The Sense of Hearing*
  - *Hearing*