

# Tonal-pattern training using “Insane Earplane”

Insane Earplane is an easy to learn flying game designed to improve a variety of tonal listening and processing skills. It introduces different tonal activities, such as lateralization, memory, pitched tones and frequency sweeps, and allows the player to improve at these skills.

## The evidence behind the practice

Insane Earplane is confirmed as significantly effective in a double blind study recently released (KSHA, 2020; LSHSS, 2020).

**We now know that impaired auditory patterning skills will prevent children from learning to read at the pace of children with intact auditory patterning listening skills.**

Auditory Patterning has been shown in many studies over the years to be a strong auditory processing area correlating to reading abilities. Widely accepted research indicates that these skills are building blocks for learning to read. It is widely accepted that phonemic awareness is vital for strong reading performance. However, now we know that without intact auditory patterning skills, children will learn language and reading at about half the pace compared to children with intact auditory patterning skills.

- Barker, M.D., & Bourland-Hicks, C. (2020). Treating auditory processing deficits. *Journal of Speech Language Hearing Services in Schools*. 1 (1).
- Smart, J. L., Purdy, S. C., & Leman, K. R. (2012). Evaluation of (central) auditory processing and phonological/phonemic awareness in 6-year-old children: A pilot study to determine test efficiency and inter-subject reliability. *Journal of Educational Audiology*, 18, 6-15.
- Sharma, M., Purdy, C. S., & Kelly, A. S. (2009). Comorbidity of auditory processing, language, and reading disorders. *Journal of Speech, Language, and Hearing Research*, 52, 706-722.

