# TEACHER'S VOICE, CHILDREN'S HEARING AND UNDERSTANDING AND ACOUSTIC ENVIRONMENT IN CLASSROOMS

# THE PRIMARY TEACHING TOOL OF A TEACHER - VOICE



AN AVERAGE 60% OF TEACHING TIME IS SPENT SPEAKING



TEACHERS REPORT

## 32X MORE VOICE PROBLEMS

THAN THE GENERAL POPULATION







**35%** of teachers have stayed HOME DUE TO VOICE PROBLEMS

**WOMEN TEACHERS ARE AT HIGHER RISK FOR VOCAL DISORDERS** 

### **TEACHER'S VOICE STATUS**

36.7%

HEALTH FINE

63.3%

**11.6**%

DANGER

NO VOICE **PROBLEMS** 

HAD VOICE ISSUES AT LEAST ONCE PER CAREER HAVE A CURRENT **VOICE DISORDER** 

# **IMPORTANCE OF HEARING AND UNDERSTANDING FOR CHILDREN**



**CHILDREN SPEND** 75% of classroom time  ${\color{red}{\sf LISTENING}}$ 

**DEPENDING ON ACOUSTIC ENVIRONMENT** 

STUDENT'S RECOGNITION **OF SPEECH VARIES** 

**ACOUSTICS CHILDREN RECOGNIZE** 0/0 OF WHAT



WITH POOR **ACOUSTICS CHILDREN RECOGNIZE ONLY** 

# **TO RECOGNIZE SPEECH**

FOR ADULTS TO HEAR

FOR CHILDREN TO HEAR

**BACKGROUND NOISE** SNR +5 DB 

BACKGROUND NOISE SNR+15 DB 4441111111111

SNR -7 TO +5 DB **BACKGROUND NOISE** 

**REALITY IN CLASSROOMS** 

THIS IS NOT ENOUGH FOR CHILDREN TO UNDERSTAND WHAT IS BEING SAID





**SNR DEFINITION** 

SIGNAL-TO-NOISE RATIO IS RELATIONSHIP BETWEEN SPOKEN SIGNALS AND BACKGROUND NOISE.

# **CLASSROOM ENVIRONMENT**

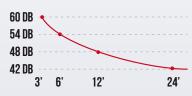


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### SPEECH RECOGNITION IMPROVES WITH PENTACLASS



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### TEACHER'S VOICE LOUDNESS





2360° classroom audio system

For more information visit www.pentaclass.com