



**Central
Auditory
Processing
Disorders:**

**When
noise
makes
speech
vanish!**

What is Central Auditory Processing Disorder?



CAPD is a processing disorder that causes speech to fade or totally drop out when environmental noise is present.

Signs of CAPD

- 1. Poor attention skills**
- 2. Balance issues**
- 3. Unable to follow directions**
- 4. Lack social skills / few friends**
- 5. Poor spelling**
- 6. Unusual responses to loud noises (fire alarm)**
- 7. Cannot do other tasks while listening**
- 8. May turn one ear towards listener**

Surprising Thing About CAPD



1. **Articulation may be close to normal**
2. **May hear music/noise at level above typical**
3. **Is usually NOT detected by normal hearing test!**

Formal Diagnosis

➤ **Physicians, speech therapist, school psychologist and teachers may all be involved in assessment**

➤ **Assessment may include:**

- Complete Audiological Battery
- (C)APD Battery (age 7.5)
- Listening Inventory
- Electrophysiological Measures (Auditory Brain Stem Responses)
- Additional measures:
 - speech-language exams
 - behavioral measures (ADHD)



The Vision-Hearing Connection

McGurk Effect



Look & Listen: **Da - Da - Da - Da**
Sound Off: **Ga - Ga - Ga - Ga**
Eyes Closed: **Ba - Ba - Ba - Ba**

<http://www.youtube.com/watch?v=PX9FYxadPoQ>

Strategies for Students with C.A.P.D.



1. Environmental Adjustments



Special seating



Reduce noise in classroom



Reduce noise from hall

2. Student Assistance



Isolate at desk



Isolate in special areas

3. Compensation Strategies

lightspeed™

<http://www.lightspeed-tek.com/>



**Classroom
Systems**



HEART brain-based phonologic RTI Strategies

http://www.hearitllc.com/class_room.html



**Personal
Systems**

4. Deficit Training Strategies



<http://www.earobics.com>

- home version
- different ages
- no license
- widely used
- less individualized



Fast ForWord
Family of Products

<http://www.scilearn.com>

- different ages and settings
- must be licensed
- often used for reading
- totally individualized

Resources

www.NCAPD.org

(The National Coalition on Auditory Processing Disorders, Inc. N(C)APD)

<http://www.exploratorium.edu/exhibits/ladle/index.html>

(Simulation, that while not originally designed for CAPD, illustrates the condition well.)

<http://www.ncld.org/types-learning-disabilities/adhd-related-issues/auditory-processing-disorders/auditory-processing-disorders>

(National Center for Learning Disabilities; resources on other disabilities too)

<http://www.techteachers.com/capd.htm>

(Nice page with a list of resources for you.)

<http://www.capdsupport.org/Resources/>

(Casual page with resources, personal cases and other information)

<http://www.ldonline.org/article/5919/>

(Provides resources on this condition plus other conditions that causing learning disabilities)