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# Teaching Decoding Through Constant Time Delay to Students with Severe Disabilities and Verbal Difficulties

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### Teaching Decoding Through Constant Time Delay to Students with Severe Disabilities and Verbal Difficulties

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#### INTRO:

The purpose of this study is:

1. To determine if teaching decoding through constant time delay is effective in teaching students with severe disabilities and verbal difficulties:

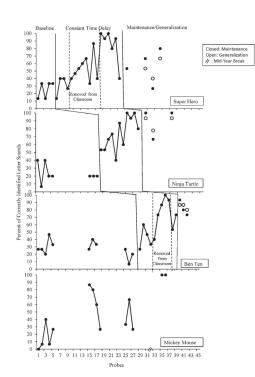
a. letter sounds within consonant-vowel-consonant words. b. to read constant-vowel-constant words.

2. To determine if teaching decoding through constant time delay builds independent reading and decoding skills in students with severe disabilities and verbal difficulties.

#### METHODS

- 1. Independent Variable: Constant Time Delay- An evidence-based practice for teaching academic skills that is a form of systematic instruction.
- 2. Dependent Variable: Decoding-Sounding out a word by saying each sound and then blending the sounds together to read the word.
- 3. Research Design: Single Case Multiple Probe Across Participants Design
- 4. Materials: Index cards with CVC words, small picture cards, index card windows, and a trifold choice board by Augmentative Resources.

#### RESULTS





Results indicated a **functional relation** between the use of **constant time delay** and decoding of **CVC words.** Additionally, students were able to **maintain** and **generalize** learning.

Students with **severe disabilities** and **verbal difficulties** can effectively learn **decoding** of CVC words through **constant time delay** and can **maintain** and **generalize** the skill.

Results were **similar** to other studies which implemented **constant time delay** to promote **emergent literacy skills** (e.g., Browder et al., 2012; Dessemont et al., 2019; Spooner et al., 2015; Tucker Cohen et al., 2008).

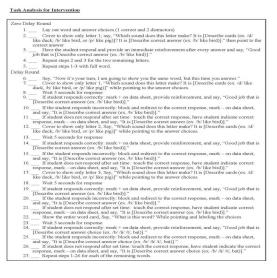
Practitioners can use **constant time delay** to teach **decoding** to students with **severe disabilities** and **verbal difficulties** and to promote **early reading skills**.

Future research should **replicate** the study with students from **different age groups** as well as **examining** the effects of this strategy on the **acquisition** of **CCVC and CVCC words**.

Student Name	Age/Grade	Ethnicity	Disability	IQ and Determining Test	Pertinent Educational History	Verbal Abilitie
Super Hero	Third Grade 9 Years Old	Caucasian	Intellectual Disability, Down Syndrome, Acute Myeloid Leukemia (AML-in remission)	WISC-V: Full Scale IQ- 40 (<0.1%ile)	WRAT-4: Word Reading: 55, 0.1%ile Spelling: 55, 0.1%ile	Responds to ye or no questions speech is unintelligible; receives SLP services
Ninja Turtle	Kindergarten 5 Years Old	African American and Caucasian	Developmental Delay	Battelle Cognitive Test: Score 55 (-3.00 Z score)	Battelle Developmental Inventory-Second Edition (BDI-2): Echolalia Informal Language Sample: Severe delays in receptive, expressive, and pragmatic language	Echolalic; speech is not used to communicate; receives SLP services
Ben Ten	Kindergarten 5 Years Old	Caucasian	Autism	Battelle Cognitive Test: Score 55 (-3.00 Z score)	Battelle Developmental Inventory 2 <sup>nd</sup> edition: Personal/social: 55, -3.00 z-score Communication: 55, -3.00 z-score Cognitive: 55, - 3.00 z-score	Speech is unintelligible; only vocalizes when upset or happy; receive SLP services







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