

# **DEAP Phonology Assessment**

Phonological Planning Case TASC21 Fronting Items

- Pig [bɪk]
- · Crab [kıæts]
- Snake [seɪk]
- Gloves [gwns]
- Helicopter [hɛləʊgəʊ]
- Duck [dʌk]
- Basket [pekes]
- Egg [εg]
- Square [kus] • Queen [kin]
- Frog [fag]

Motor Planning Case TASC23 Fronting Items

- Pig [eX]
- Crab [t<sub>\lamb</sub>]
- Snake [seiX]
- Gloves [tʌp]
- Helicopter [heitə]
- Duck [d<sub>\(\Lambda\X\)</sub>]
- Basket [bæXtɛt]
- Egg [εX]
- Square [stov]
- Queen [tin]
- Frog [faX]

## **DEAP Inconsistency Assessment**

Phonological Planning Case TASC21 88% Inconsistency

- Elephant
- [ʊfont]
- [ɛfəs]
- [gonæs]
- Fish
- [∫it]
- [ʃus]
- [ʃuf]

Motor Planning Case TASC23 64% Inconsistency

- Elephant
- [εntæ]
- [entent]
- [entænt]
- Fish
- [fεs]
- [fεs]
- [fεs]

# Syllable Repetition Task



Shriberg, L. D., Lohmeier, H. L., Campbell, T. F., Dollaghan, C. A., Green, J. R., & Moore, C. A. (2009). A nonword repetition task for speakers with misarticulations: The syllable repetition task. Journal of Speech, Language and Hearing Research, 52, 1189-1212.

# **SRT: Memory Profile**

#### TASC21 3 bama 8 maba bama bamaba 10 dabama 13 banada badana

11 nadamaba badadama

- Competency Score = -4.89 Memory Score = -2.69
- 2 syllable items = 50%√
- 3 syllable items = 28%√
- 4 syllable items = 31%√
- Addition errors = 1

# **SRT: Transcoding Profile**

### TASC23 bada 4 mada pæda

15 bamadana patadadata

17 manabada padanka

nadbana

11 madaba

- Competency Score = -7.28
- Memory Score = 1.79
- 2 syllable items = 19%√
- 3 syllable items = 28%√
- 4 syllable items = 19%√
- Addition errors = 5

#### **Maximum Performance Tasks**

Phonological Planning Case TASC21

- · Unable to repeat "pataka"
- Fluent repetition of four sequences of [pəkek]
- No difficulty sequencing nonspeech movements

#### Motor Planning Case TASC23

- Slow single syllable repetition rates with groping and difficulty transitioning between C & V and between syllables, mmmmmamammma
- Unable to repeat "pataka"
- Jaw sliding when moving tongue from side to side

# Summary

#### Phonological Planning

- · More atypical and less predictable error types
- Greater inconsistency upon repetition of same word
- · Lower competency and memory scores on SRT
- · Fluent repetitions during DKR testing
- · Less difficulty with sequencing of nonspeech movements

#### **Motor Planning**

- More predictable error types
- Less inconsistency upon repetition of the same
- · Low competency on SRT with many addition errors
- Transcoding errors during DKR testing
- · Difficulty with sequencing nonspeech movements

# INTERVENTION **PROCEDURES**

Pre-Practice for Phonological Planning Pre-Practice for Motor Planning High Intensity Practice

#### Session Structure

- PrePractice
- · Low intensity procedures to identify right level of practice
- · Provide child with strategies to ensure success during practice
- · Use strategies that are individualized to diagnosed profile
- · Provide knowledge of performance feedback
- Practice
- High intensity practice for all cases (e.g., at least 100 trials in a 10-15 minute period)
- Practice at the challenge point (average about 80% correct)
- · Adjust level of support provided using the integral stimulation
- Adjust feedback provided as needed but try to use delayed knowledge of results feedback as much as possible

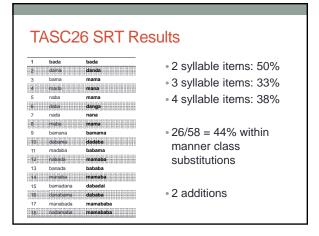
# Phonological Planning Intervention

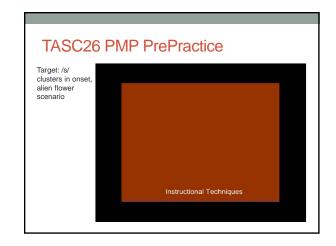
- · Focus on Phonological Memory and Planning
- · Prepractice:
- Provide visual cues (pictographs, letters, gestures) to represent phonemes in each target word
- · Provide visual cues (pictographs, letters, gestures) to represent words in
- · Practice segments in isolation and then chain together
- Models for imitation are allowed during prepractice as needed
- Knowledge of performance feedback is allowed during prepractice as needed
- Practice
- · Aim for high response rate
- Avoid imitative models
- · Encourage child to use visual cues to remember target if necessary
- Modulate use of feedback to maintain accuracy at challenge point
- · Modulate target length/complexity while practicing at challenge point

#### TASC26 Intake Assessment

- Age 58 months (4 years; 10 months)
- Kaufman Brief Intelligence Test (Nonverbal): SS = 100
- Peabody Picture Vocabulary Test: SS = 70
- Mean Length of Utterance: 3.17
- Speech Perception (SAILS): z = -4.78
- Implicit Phonological Awareness: z = -1.20
- Oral Motor Score: below expectations for age
  - · Incorrect but fluent repetitions of [pataka]
  - Passed Isolated movements but failed sequenced nonspeech movements
- Slow mono- and trisyllable repetition rates but difficulty following the instructions for MPTs

#### **TASC26 DEAP Results** Articulation Test Inconsistency 52%(72%) • PCC = 55 • PVC = 86 Helicopter Phonology Test ۰ [kwatə٠] · Gliding 52% • [takə٠] Vocalization/Liquids 11% • [hʌtatəː] Deaffrication 40% Cluster reduction 44% • Fronting 39% • WSD 21% Stopping 6% PVdeVoicing 42%





# Motor Planning Effective Intervention Focus on Auditory-Motor Integration Prepractice: Provide exposure to intense varied exposure to auditory versions of target words Encourage child to make judgements about accuracy of word productions in other's and own speech Auditory bombardment Error detection tasks Focused stimulation with recasts and expansions Practice Aim for high response rate Integral stimulation hierarchy-provide imitative models when necessary to stimulate correct responses Encourage self monitoring and self correction Modulate use of feedback to maintain accuracy at challenge point Leave time after child's response for him/her to integrate and evaluation internal feedback Modulate target length/complexity while practicing at challenge point

