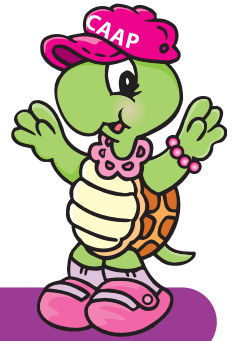




# CAAP<sup>®</sup>

## Clinical Assessment of Articulation and Phonology<sup>®</sup>

Wayne A. Secord, Ph.D., CCC-SLP  
JoAnn S. Donohue, M.A., CCC-SLP



### Phonological Process Checklists I & II

Child's Name: \_\_\_\_\_ Case Number: \_\_\_\_\_ Sex:  M  F

Birth Date: \_\_\_\_\_ CA: \_\_\_\_\_ Examiner's Name: \_\_\_\_\_

Legal Guardian(s): \_\_\_\_\_

| Summary of Phonological Processes                                    | Checklist I<br>(Use Articulation Inventory) |                 |                               |    | Checklist II<br>(Use Phonological Process Probes) |                 |                               |    |
|--|---|-----------------|-------------------------------|----|---|-----------------|-------------------------------|----|
|  | Date: _____                                 |                 |                               |    | Date: _____                                       |                 |                               |    |
|  | # of Yes Responses                          | % of Occurrence | Is the process active (≥40%)? |    | # of Yes Responses                                | % of Occurrence | Is the process active (≥40%)? |    |
| <b>Syllable Structure</b>  |   |                 |                               |    |   |                 |                               |    |
| 1) Final Consonant Deletion  |   |                 | YES                           | NO |   |                 | YES                           | NO |
| 2) Cluster Reduction   |   |                 | YES                           | NO |   |                 | YES                           | NO |
| 3) Syllable Reduction  |   |                 | YES                           | NO |   |                 | YES                           | NO |
| <b>Substitution</b>  |   |                 |                               |    |   |                 |                               |    |
| 4) Gliding   |   |                 | YES                           | NO |   |                 | YES                           | NO |
| 5) Vocalization  |   |                 | YES                           | NO |   |                 | YES                           | NO |
| 6) Fronting (Velar and Palatal)                                      |   |                 | YES                           | NO |   |                 | YES                           | NO |
| 7) Deaffrication   |   |                 | YES                           | NO |   |                 | YES                           | NO |
| 8) Stopping  |   |                 | YES                           | NO |   |                 | YES                           | NO |
| <b>Assimilation</b>  |   |                 |                               |    |   |                 |                               |    |
| 9) Prevocalic Voicing  |   |                 | YES                           | NO |   |                 | YES                           | NO |
| 10) Postvocalic Devoicing  |   |                 | YES                           | NO |   |                 | YES                           | NO |
| Phonological Processes Score<br>(Total # Yes Responses-Record Below) |   |                 | Checklist I Total             |    |   |                 | Checklist II Total            |    |

**Please Note: Phonology scores are valid only if one or more processes are active (≥40%).**

#### Checklist I Phonology Scores

Phonological Processes Score .....

Standard Score .....

Confidence Interval 90%  ↔

Percentile Rank.....

Age Equivalent.....

#### Checklist II Phonology Scores

Phonological Processes Score .....

Standard Score .....

Confidence Interval 90%  ↔

Percentile Rank.....

Age Equivalent.....

# Checklist I

## Checklists I & II

To analyze the phonological processes using the *Articulation Inventory* record form, use Checklist I.

To administer and score the *Phonological Process Probes*, use Checklist II on pages 4-5.

### Directions

1. Read the question for each phonological process.
2. Locate the target stimulus by plate number on the *Articulation Inventory* record form.
3. Check **yes** or **no** to answer.
4. Count all the checks in the **yes** column and divide by the total words in each checklist to obtain the percentage of occurrence.

## Syllable Structure Processes...continued

### 3) Syllable Reduction (SR)

Is a syllable deleted?

| Plate No. | Stimulus Word             | Yes | No |
|-----------|---------------------------|-----|----|
| 36        | computer                  |     |    |
| 37        | dinosaur                  |     |    |
| 38        | elephant                  |     |    |
| 39        | grasshopper               |     |    |
| 40        | finger nail               |     |    |
| 41        | helicopter                |     |    |
| 42        | lemonade                  |     |    |
| 43        | thermometer               |     |    |
| 44        | basketball                |     |    |
|           | <b># of Yes Responses</b> | 9   |    |
|           | <b>% of Occurrence</b>    |     |    |

## Syllable Structure Processes

### 1) Final Consonant Deletion (FCD)

Is the final consonant deleted?

| Plate No. | Stimulus Word             | Yes | No |
|-----------|---------------------------|-----|----|
| 1         | pig                       |     |    |
| 2         | bed                       |     |    |
| 5         | cage                      |     |    |
| 12        | hive                      |     |    |
| 13        | fish                      |     |    |
| 17        | sheep                     |     |    |
| 19        | cheese                    |     |    |
| 20        | rake                      |     |    |
| 21        | leaf                      |     |    |
| 23        | web                       |     |    |
|           | <b># of Yes Responses</b> | 10  |    |
|           | <b>% of Occurrence</b>    |     |    |

### 2) Cluster Reduction (CR)

Is a consonant deleted from the cluster?

| Plate No. | Stimulus Word             | Yes | No |
|-----------|---------------------------|-----|----|
| 28        | clown                     |     |    |
| 29        | flag                      |     |    |
| 30        | glove                     |     |    |
| 31        | school                    |     |    |
| 32        | snake                     |     |    |
| 33        | swing                     |     |    |
| 34        | bridge                    |     |    |
| 35        | treasure                  |     |    |
| 39        | grasshopper               |     |    |
|           | <b># of Yes Responses</b> | 9   |    |
|           | <b>% of Occurrence</b>    |     |    |

## Substitution Processes

### 4) Gliding (GL)

Is a liquid replaced by a glide?

| Plate No. | Stimulus Word             | Yes | No |
|-----------|---------------------------|-----|----|
| 10        | ring                      |     |    |
| 20        | rake                      |     |    |
| 21        | leaf                      |     |    |
| 28        | clown                     |     |    |
| 29        | flag                      |     |    |
| 34        | bridge                    |     |    |
| 42        | lemonade                  |     |    |
|           | <b># of Yes Responses</b> | 7   |    |
|           | <b>% of Occurrence</b>    |     |    |

### 5) Vocalization (VO)

Is a syllabic or postvocalic liquid replaced by a vowel?

| Plate No. | Stimulus Word             | Yes | No |
|-----------|---------------------------|-----|----|
| 15        | seal                      |     |    |
| 18        | jar                       |     |    |
| 31        | school                    |     |    |
| 36        | computer                  |     |    |
| 37        | dinosaur                  |     |    |
| 40        | finger nail               |     |    |
| 41        | helicopter                |     |    |
| 43        | thermometer               |     |    |
|           | <b># of Yes Responses</b> | 8   |    |
|           | <b>% of Occurrence</b>    |     |    |



# Checklist I

## Substitution Processes...continued

### 6) Fronting (Velar and Palatal) (FR)

Is a velar or palatal replaced by an alveolar?

| Plate No. | Stimulus Word      | Yes | No |
|-----------|--------------------|-----|----|
| 5         | cage               |     |    |
| 6         | gate               |     |    |
| 9         | king               |     |    |
| 10        | ring               |     |    |
| 13        | fish               |     |    |
| 17        | sheep              |     |    |
| 18        | jar                |     |    |
| 20        | rake               |     |    |
| 22        | watch              |     |    |
| 30        | glove              |     |    |
|           | # of Yes Responses | 10  |    |
|           | % of Occurrence    |     |    |

### 7) Deaffrication (DF)

Is the affricate reduced to /j/ or /ʒ/?

| Plate No. | Stimulus Word      | Yes | No |
|-----------|--------------------|-----|----|
| 5         | cage               |     |    |
| 18        | jar                |     |    |
| 19        | cheese             |     |    |
| 22        | watch              |     |    |
| 34        | bridge             |     |    |
|           | # of Yes Responses | 5   |    |
|           | % of Occurrence    |     |    |

### 8) Stopping (ST)

Is a fricative or an affricate replaced by a stop?

| Plate No. | Stimulus Word      | Yes | No |
|-----------|--------------------|-----|----|
| 7         | mouse              |     |    |
| 8         | knife              |     |    |
| 13        | fish               |     |    |
| 14        | van                |     |    |
| 15        | seal               |     |    |
| 16        | zoo                |     |    |
| 17        | sheep              |     |    |
| 18        | jar                |     |    |
| 19        | cheese             |     |    |
| 25        | thumb              |     |    |
|           | # of Yes Responses | 10  |    |
|           | % of Occurrence    |     |    |

## Assimilation Processes

### 9) Prevocalic Voicing (PVV)

Is a voiceless consonant replaced by a voiced consonant?

| Plate No. | Stimulus Word      | Yes | No |
|-----------|--------------------|-----|----|
| 1         | pig                |     |    |
| 3         | teeth              |     |    |
| 9         | king               |     |    |
| 13        | fish               |     |    |
| 15        | seal               |     |    |
| 17        | sheep              |     |    |
| 19        | cheese             |     |    |
| 36        | computer           |     |    |
|           | # of Yes Responses | 8   |    |
|           | % of Occurrence    |     |    |

### 10) Postvocalic Devoicing (PVD)

Is a voiced consonant replaced by a voiceless consonant?

| Plate No. | Stimulus Word      | Yes | No |
|-----------|--------------------|-----|----|
| 1         | pig                |     |    |
| 2         | bed                |     |    |
| 4         | dog                |     |    |
| 5         | cage               |     |    |
| 12        | hive               |     |    |
| 23        | web                |     |    |
| 29        | flag               |     |    |
| 34        | bridge             |     |    |
|           | # of Yes Responses | 8   |    |
|           | % of Occurrence    |     |    |

## Number of Words in Checklist

|    | 5    | 6    | 7    | 8    | 9    | 10   |
|----|------|------|------|------|------|------|
| 1  | 20%  | 17%  | 14%  | 13%  | 11%  | 10%  |
| 2  | 40%  | 33%  | 29%  | 25%  | 22%  | 20%  |
| 3  | 60%  | 50%  | 43%  | 38%  | 33%  | 30%  |
| 4  | 80%  | 67%  | 57%  | 50%  | 44%  | 40%  |
| 5  | 100% | 83%  | 71%  | 63%  | 56%  | 50%  |
| 6  |      | 100% | 86%  | 75%  | 67%  | 60%  |
| 7  |      |      | 100% | 88%  | 78%  | 70%  |
| 8  |      |      |      | 100% | 89%  | 80%  |
| 9  |      |      |      |      | 100% | 90%  |
| 10 |      |      |      |      |      | 100% |

## Percentage Calculator

# Checklist II

## Checklists I & II

To administer and score the *Phonological Process Probes*, use Checklist II.

To analyze the phonological processes using the *Articulation Inventory* record form, use Checklist I on pages 2-3.

### Directions

1. Read the question for each phonological process.
2. Locate the target stimulus by plate number on the *Phonological Process Probe*.
3. If necessary, transcribe response, then check **yes** or **no** to answer.
4. Count all the checks in the **yes** column and divide by the total words in each checklist to obtain the percentage of occurrence.

## Syllable Structure Processes...continued

### 3) Syllable Reduction (SR)

Is a syllable deleted?

| Plate #            | Stimulus Word | Response* | Yes | No |
|--------------------|---------------|-----------|-----|----|
| 51A                | computer      |           |     |    |
| 51B                | dinosaur      |           |     |    |
| 51C                | elephant      |           |     |    |
| 52A                | grasshopper   |           |     |    |
| 52B                | finger nail   |           |     |    |
| 52C                | helicopter    |           |     |    |
| 53A                | lemonade      |           |     |    |
| 53B                | thermometer   |           |     |    |
| 53C                | basketball    |           |     |    |
| # of Yes Responses |               |           | 9   |    |
| % of Occurrence    |               |           |     |    |

## Syllable Structure Processes

### 1) Final Consonant Deletion (FCD)

Is the final consonant deleted?

| Plate #            | Stimulus Word | Response* | Yes | No |
|--------------------|---------------|-----------|-----|----|
| 45A                | pig           |           |     |    |
| 45B                | bed           |           |     |    |
| 45C                | cage          |           |     |    |
| 45D                | hive          |           |     |    |
| 46A                | fish          |           |     |    |
| 46B                | sheep         |           |     |    |
| 46C                | cheese        |           |     |    |
| 46D                | rake          |           |     |    |
| 47A                | leaf          |           |     |    |
| 47B                | web           |           |     |    |
| # of Yes Responses |               |           | 10  |    |
| % of Occurrence    |               |           |     |    |

### 2) Cluster Reduction (CR)

Is a consonant deleted from the cluster?

| Plate #            | Stimulus Word | Response* | Yes | No |
|--------------------|---------------|-----------|-----|----|
| 48A                | clown         |           |     |    |
| 48B                | flag          |           |     |    |
| 48C                | glove         |           |     |    |
| 49A                | school        |           |     |    |
| 49B                | snake         |           |     |    |
| 49C                | swing         |           |     |    |
| 50A                | bridge        |           |     |    |
| 50B                | treasure      |           |     |    |
| 50C                | grasshopper   |           |     |    |
| # of Yes Responses |               |           | 9   |    |
| % of Occurrence    |               |           |     |    |

## Substitution Processes

### 4) Gliding (GL)

Is a liquid replaced by a glide?

| Plate #            | Stimulus Word | Response* | Yes | No |
|--------------------|---------------|-----------|-----|----|
| 54A                | ring          |           |     |    |
| 54B                | rake          |           |     |    |
| 54C                | leaf          |           |     |    |
| 54D                | clown         |           |     |    |
| 55A                | flag          |           |     |    |
| 55B                | bridge        |           |     |    |
| 55C                | lemonade      |           |     |    |
| # of Yes Responses |               |           | 7   |    |
| % of Occurrence    |               |           |     |    |

### 5) Vocalization (VO)

Is a syllabic or postvocalic liquid replaced by a vowel?

| Plate #            | Stimulus Word | Response* | Yes | No |
|--------------------|---------------|-----------|-----|----|
| 56A                | seal          |           |     |    |
| 56B                | jar           |           |     |    |
| 56C                | school        |           |     |    |
| 56D                | computer      |           |     |    |
| 57A                | dinosaur      |           |     |    |
| 57B                | finger nail   |           |     |    |
| 57C                | helicopter    |           |     |    |
| 57D                | thermometer   |           |     |    |
| # of Yes Responses |               |           | 8   |    |
| % of Occurrence    |               |           |     |    |

(Go to #6, p.5.)

\*If necessary, transcribe response.

# Checklist II

## Substitution Processes...continued

### 6) Fronting (Velar and Palatal) (FR)

Is a velar or palatal replaced by an alveolar?

| Plate #                   | Stimulus Word | Response* | Yes | No |
|---------------------------|---------------|-----------|-----|----|
| 58A                       | cage          |           |     |    |
| 58B                       | gate          |           |     |    |
| 58C                       | king          |           |     |    |
| 58D                       | ring          |           |     |    |
| 59A                       | fish          |           |     |    |
| 59B                       | sheep         |           |     |    |
| 59C                       | jar           |           |     |    |
| 60A                       | rake          |           |     |    |
| 60B                       | watch         |           |     |    |
| 60C                       | glove         |           |     |    |
| <b># of Yes Responses</b> |               |           | 10  |    |
| <b>% of Occurrence</b>    |               |           |     |    |

### 7) Deaffrication (DF)

Is the affricate reduced to /j/ or /z/?

| Plate #                   | Stimulus Word | Response* | Yes | No |
|---------------------------|---------------|-----------|-----|----|
| 61A                       | cage          |           |     |    |
| 61B                       | jar           |           |     |    |
| 61C                       | cheese        |           |     |    |
| 62A                       | watch         |           |     |    |
| 62B                       | bridge        |           |     |    |
|                           |               |           |     |    |
|                           |               |           |     |    |
|                           |               |           |     |    |
|                           |               |           |     |    |
| <b># of Yes Responses</b> |               |           | 5   |    |
| <b>% of Occurrence</b>    |               |           |     |    |

### 8) Stopping (ST)

Is a fricative or an affricate replaced by a stop?

| Plate #                   | Stimulus Word | Response* | Yes | No |
|---------------------------|---------------|-----------|-----|----|
| 63A                       | mouse         |           |     |    |
| 63B                       | knife         |           |     |    |
| 63C                       | fish          |           |     |    |
| 63D                       | van           |           |     |    |
| 64A                       | seal          |           |     |    |
| 64B                       | zoo           |           |     |    |
| 64C                       | sheep         |           |     |    |
| 64D                       | jar           |           |     |    |
| 65A                       | cheese        |           |     |    |
| 65B                       | thumb         |           |     |    |
| <b># of Yes Responses</b> |               |           | 10  |    |
| <b>% of Occurrence</b>    |               |           |     |    |

## Assimilation Processes

### 9) Prevocalic Voicing (PVV)

Is a voiceless consonant replaced by a voiced consonant?

| Plate #                   | Stimulus Word | Response* | Yes | No |
|---------------------------|---------------|-----------|-----|----|
| 66A                       | pig           |           |     |    |
| 66B                       | teeth         |           |     |    |
| 66C                       | king          |           |     |    |
| 66D                       | fish          |           |     |    |
| 67A                       | seal          |           |     |    |
| 67B                       | sheep         |           |     |    |
| 67C                       | cheese        |           |     |    |
| 67D                       | computer      |           |     |    |
| <b># of Yes Responses</b> |               |           | 8   |    |
| <b>% of Occurrence</b>    |               |           |     |    |

### 10) Postvocalic Devoicing (PVD)

Is a voiced consonant replaced by a voiceless consonant?

| Plate #                   | Stimulus Word | Response* | Yes | No |
|---------------------------|---------------|-----------|-----|----|
| 68A                       | pig           |           |     |    |
| 68B                       | bed           |           |     |    |
| 68C                       | dog           |           |     |    |
| 68D                       | cage          |           |     |    |
| 69A                       | hive          |           |     |    |
| 69B                       | web           |           |     |    |
| 69C                       | flag          |           |     |    |
| 69D                       | bridge        |           |     |    |
| <b># of Yes Responses</b> |               |           | 8   |    |
| <b>% of Occurrence</b>    |               |           |     |    |

### Number of Words in Checklist

|    | 5    | 6    | 7    | 8    | 9    | 10   |
|----|------|------|------|------|------|------|
| 1  | 20%  | 17%  | 14%  | 13%  | 11%  | 10%  |
| 2  | 40%  | 33%  | 29%  | 25%  | 22%  | 20%  |
| 3  | 60%  | 50%  | 43%  | 38%  | 33%  | 30%  |
| 4  | 80%  | 67%  | 57%  | 50%  | 44%  | 40%  |
| 5  | 100% | 83%  | 71%  | 63%  | 56%  | 50%  |
| 6  |      | 100% | 86%  | 75%  | 67%  | 60%  |
| 7  |      |      | 100% | 88%  | 78%  | 70%  |
| 8  |      |      |      | 100% | 89%  | 80%  |
| 9  |      |      |      |      | 100% | 90%  |
| 10 |      |      |      |      |      | 100% |

### Percentage Calculator

\*If necessary, transcribe response.

## Syllable Structure Processes

**Final Consonant Deletion** is the deletion of the final consonant or consonant cluster in a syllable or word.

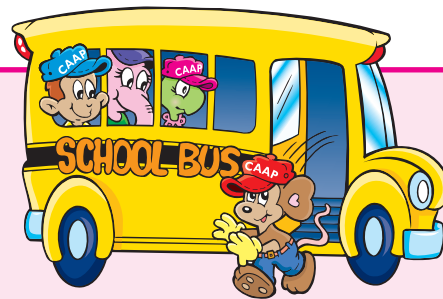
Example: /pɪŋ/ → /pɪ/, /bɛd/ → /bɛ/, /kɛdʒ/ → /kɛ/

**Cluster Reduction** is the deletion of one or more consonants from a two- or three-consonant cluster.

Example: /klaʊn/ → /kaʊn/, /flæg/ → /fæg/, /glʌv/ → /gʌv/

**Syllable Reduction** is the deletion of a syllable from a word containing two or more syllables. The deletion usually occurs in the unstressed syllable.

Example: /kæmpjutə-/ → /pjutə-, /daɪnəscə-/ → /daɪnsə-, /ɛləfənt/ → /ɛfənt/



## Substitution Processes

**Gliding** occurs when /r/ becomes /w/ or /l/ becomes /w/ or /j/.

Example: /rɪŋ/ → /wɪŋ/, /rek/ → /wek/, /lif/ → /jif/

**Vocalization** occurs when one of the following, /l/, /ɜ-/ or /ə-, is replaced by a more neutral vowel.

Example: /sil/ → /sio/, /dʒə-/ → /dʒə/, /kæmpjutə-/ → /kæmpjutʊ/

**Fronting (Velar and Palatal)** is the substitution of sounds in the front of the mouth, usually alveolars, for velar or palatal sounds.

Example: /kɛdʒ/ → /tɛdʒ/, /get/ → /dɛt/, /fɪf/ → /fɪs/

**Deaffrication** is the deletion of a stop component from an affricate leaving only the continuant aspect.

Example: /kɛdʒ/ → /kɛz/, /dʒə-/ → /zə-, /tʃɪz/ → /ʃɪz/

**Stopping** is the substitution of a stop consonant for a fricative or an affricate.

Example: /maʊs/ → /maʊt/, /ʃɪp/ → /tɪp/, /naɪf/ → /naɪp/

## Assimilation Processes

**Prevocalic Voicing** is the voicing of an initial voiceless consonant in a word.

Example: /pɪŋ/ → /bɪŋ/, /tɪθ/ → /dɪθ/, /kɪŋ/ → /dɪŋ/

**Postvocalic Devoicing** is the devoicing of a final voiced consonant in a word.

Example: /pɪŋ/ → /pɪk/, /dʒ/ → /dʒt/, /kɛdʒ/ → /kɛtʃ/

