

Diagnostic Evaluation of Articulation and Phonology—U.S. Edition (DEAP)



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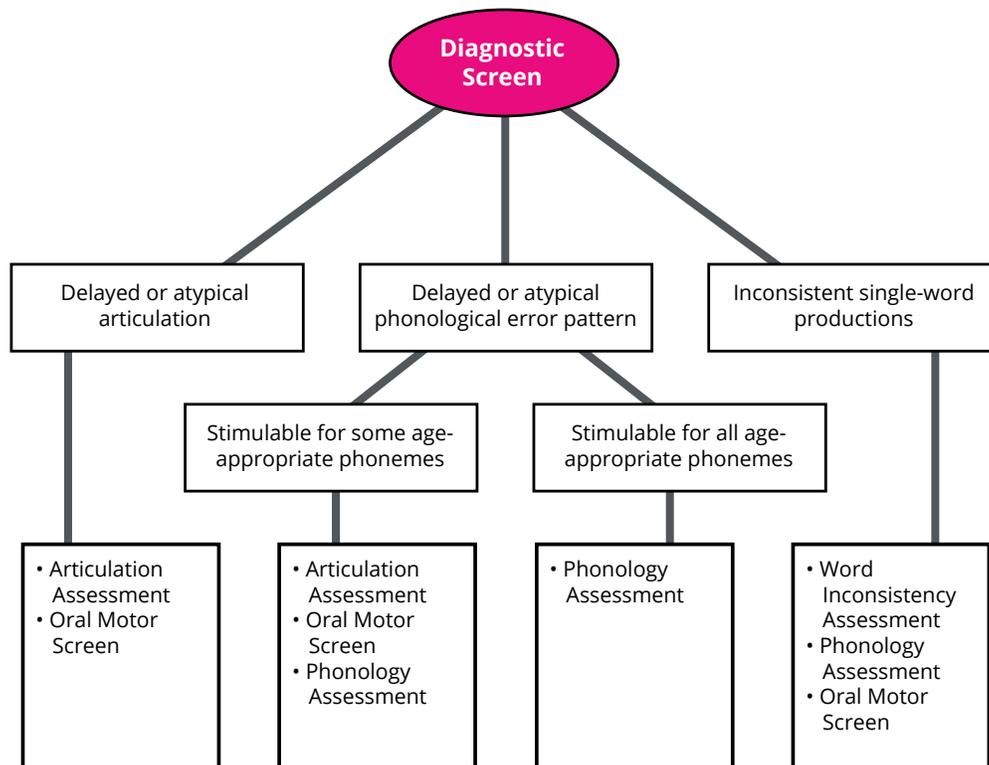
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Overview

The Diagnostic Evaluation of Articulation and Phonology, U.S. Edition (DEAP) is a comprehensive, individually administered, norm-referenced battery designed to provide differential diagnoses of speech disorders in children ages 3.0-8.11 years. Five tests (two screens and three assessments) comprise the DEAP assessment process. Although you are not required to administer all test components, each screen can be administered in 5 minutes and each assessment in 15 minutes.

From the Diagnostic Screen results, you can determine if additional testing is needed and, if so, the appropriate DEAP test to administer. The Articulation, Phonology, and Word Inconsistency Assessments then help clinicians differentiate between disorders of articulation; delayed phonological development and consistent phonological disorders; and inconsistent phonological disorders, respectively. If there are concerns about a possible oral motor disorder, the Oral Motor Screen may be administered to determine if an in-depth assessment of oral motor skills is warranted.

Assessment Process



Features of Deap

DEAP incorporates the following features:

- A five-minute Diagnostic Screen that is appropriate for general screening of speech disorders and for initial referrals
- An assessment process customized to the needs of the individual child based on the results of the Diagnostic Screen
- An Articulation Assessment for evaluating consonants and vowels in words, plus opportunities for determining stimulability of error phonemes both in isolation and in syllable contexts
- A Phonology Assessment for determining error patterns and similarities in phoneme production across single words and connected speech contexts
- A Word Inconsistency Assessment for examining the variability of a child's phonological error patterns
- An Oral Motor Screen for identifying oral motor difficulties that may require further in-depth assessment
- An analysis of syllable structures (i.e., phonemes in the syllable-initial and syllable-final positions, syllable shapes, and number of syllables in words) in target words in the Diagnostic Screen, Articulation Assessment, and Phonology Assessment
- A listing of dialectal variations of words in the DEAP tests collected from the normative sample.

Uses of Deap

DEAP can be used to:

- Screen a child's articulation, phonological, and oral motor skills to determine if further assessment is needed
- Determine if a child has an articulation disorder, consistent phonological disorder or inconsistent phonological disorder
- Determine eligibility for service
- Plan intervention; and
- Measure treatment efficacy.

Screen/Assessment Description

Diagnostic Screen:

This 5-minute screen evaluates Single-Word Production, Phoneme Stimulability, and Single-Word Inconsistency.

- Single-Word Production enables you to sample a number of American English phonemes quickly through the use of pictures to determine if further assessment of articulation and phonology is warranted.
- Phoneme Stimulability enables you to test the child's ability to correctly imitate a phoneme initially produced in error in the Single-Word Production task.
- Single-Word Inconsistency enables you to determine the consistency of the child's word production after the child renames the 10 pictures from the Single-Word Production task.

Articulation Assessment:

The Articulation Assessment gives you the opportunity to examine the child's ability to produce individual phonemes in words, syllables, and/or in isolation. You can establish the child's phoneme inventory and phoneme stimulability inventory as well as determine the child's performance relative to his or her age peers. The assessment consists of two tasks: Articulation Single-Word Production and Phoneme Stimulability.

- Articulation Single-Word Production, the first step in determining if a child is able to correctly articulate vowels, and consonants in syllable-initial and syllable-final positions, includes 30 pictures that target words consisting primarily of CVC syllable shapes.
- Phoneme Stimulability provides the child with an opportunity to imitate the phonemes that were produced in error in the Articulation Single-Word Production task.

Phonology Assessment:

Through the Phonology Single-Word Production and Connected Speech tasks, the Phonology Assessment helps you to evaluate a child's use of phonological error patterns and to identify and classify any error patterns in the child's speech as age-appropriate, delayed, or atypical.

- Phonology Single-Word Production enables you to examine the child's use of error patterns in 50 pictures.

- Connected Speech is a three-picture description task that targets 14 words from Phonology Single-Word Production.

Standardization Sample

The standardization and related validity and reliability research for DEAP occurred in March, 2005 and continued through October, 2005. It involved over 650 children between the ages of 3 years, 0 months through 8 years, 11 months. The sample, based on the 2003 U.S. Census was stratified on the basis of age, race/ethnicity, geographic region, and parent education level.

Of the children included in the normative sample, 5.7% had been previously diagnosed with an articulation, phonological, or oral motor disorder.

	<i>n</i>	% of Sample	% of U.S. Population
Race/Ethnicity			
African American	94	14.46	14.17
Asian	25	3.85	3.94
Hispanic	127	19.54	19.56
White	386	59.38	59.05
Other	18	2.77	3.27
Geographic Region			
Midwest	135	20.77	22.16
Northeast	108	16.62	17.43
South	238	36.61	35.73
West	169	26.00	24.67

Clinical Samples

Three clinical studies were conducted during the standardization sampling. The participants ranged in age from 3 years, 0 months through 8 years, 11 months. Each study included children from across the country and some children with a concomitant mild- to-moderate

language disorder. Children with a diagnosis of autism spectrum disorder, severe emotional disorder or any condition that would prevent the child from responding to the test stimuli in a standard fashion without any modification to the test were excluded from the studies.

The participants in the study of children with an articulation disorder had been previously diagnosed with delayed or disordered articulation skills and were enrolled in speech therapy for articulation.

The participants in the study of children with phonological disorder had been previously diagnosed with a phonological disorder and were enrolled in speech therapy for phonology.

The participants in the study of children with an oral motor disorder had been previously diagnosed with an oral motor disorder and receiving speech therapy for articulation, phonological, and/or oral motor disorders. Children could have been diagnosed with apraxia of speech, dysarthria, cerebral palsy, head injury, or stroke.

Summary

The Diagnostic Evaluation of Articulation and Phonology, U.S. Edition (DEAP) provides you with the flexibility you need to confidently assess children's articulation and phonological skills efficiently. It enables you to gather the information you need to determine the appropriate therapy goals and objectives.

The test has undergone stringent quality control measures in the standardization process, including precautions to ensure that items are fair to all students. Careful review by professionals assures that ethnic and gender bias have been eliminated.

