

tactile cues for speech sounds

tactile cues for speech sounds are an essential aspect of speech perception and production, particularly for individuals with hearing impairments or speech sound disorders. These cues involve the use of touch sensations to support the recognition and articulation of specific phonemes, thereby enhancing communication effectiveness. Incorporating tactile feedback can improve speech accuracy, facilitate language acquisition, and support auditory processing by providing supplementary sensory information. This article explores the concept of tactile cues for speech sounds, their applications, types, and the benefits they offer in both clinical and educational settings. The integration of tactile strategies in speech therapy and language learning underscores their growing importance in augmenting traditional auditory and visual methods. Following this introduction, the article will present a detailed overview of the main topics related to tactile cues for speech sounds.

- Understanding Tactile Cues in Speech Perception
- Types of Tactile Cues for Speech Sounds
- Applications of Tactile Cues in Speech Therapy
- Benefits of Using Tactile Cues for Speech Sounds
- Challenges and Considerations in Implementing Tactile Cues

Understanding Tactile Cues in Speech Perception

Tactile cues for speech sounds refer to the use of touch-based information to identify, differentiate, and produce speech sounds. This approach supplements auditory and visual cues by engaging the somatosensory system, which processes sensations such as pressure, vibration, and movement around the vocal tract. Research has shown that tactile feedback can enhance speech perception, especially in noisy environments or for individuals with compromised hearing ability. By providing physical sensations associated with particular phonemes, tactile cues help listeners and speakers attune to subtle speech sound distinctions that might otherwise be difficult to detect.

The Role of the Somatosensory System

The somatosensory system plays a critical role in how tactile cues for speech sounds are perceived and utilized. This system encompasses receptors in the skin, muscles, and joints that detect touch, pressure, and proprioceptive information. When speech sounds are produced, vibrations and airflow create tactile sensations around the mouth, face, and throat. These sensations provide feedback that contributes to accurate speech sound identification and articulation. Understanding the interaction between tactile and auditory

inputs is fundamental to leveraging tactile cues effectively.

Integration with Auditory and Visual Modalities

Tactile cues do not function in isolation but rather complement auditory and visual speech cues. For instance, lipreading offers visual information about speech production, while hearing provides auditory signals. Tactile cues add a third sensory channel that can reinforce or clarify ambiguous speech sounds. This multimodal integration is particularly valuable for individuals with hearing loss who rely on additional sensory input to support communication.

Types of Tactile Cues for Speech Sounds

Tactile cues for speech sounds can be categorized based on the nature of the touch sensation and the area of the body involved. These cues include vibratory feedback, tactile phoneme markers, and manual prompts, each serving distinct functions in speech perception and production.

Vibratory Feedback

Vibratory feedback involves the detection of vibrations generated by vocal fold activity during speech. Devices that provide vibrotactile stimulation can be applied to areas such as the throat, face, or wrist to convey the presence and characteristics of voiced sounds. This type of cue helps individuals recognize voicing contrasts and improve speech sound differentiation.

Tactile Phoneme Markers

Tactile phoneme markers are specific touch cues associated with particular speech sounds or phonemes. These markers can be delivered using fingers or specialized tools to indicate place or manner of articulation. For example, a tap on the cheek might signify a bilabial sound, while a stroke on the throat could represent a glottal sound. These tactile signals assist learners in associating physical sensations with speech sound features.

Manual Prompts and Cueing Systems

Manual prompts involve the use of hand gestures or taps on the speaker's face or neck to cue speech sound production. Techniques such as the Tadoma method allow individuals to feel the speaker's lip, jaw, and throat movements to perceive speech through touch. These systems are particularly effective for people with profound hearing loss or speech production difficulties.

Applications of Tactile Cues in Speech Therapy

Tactile cues for speech sounds are widely employed in speech therapy to support articulation, phonological awareness, and speech perception. Therapists use tactile strategies to facilitate accurate production of challenging sounds and to enhance auditory processing in clients with diverse communication needs.

Speech Sound Disorders

Individuals with speech sound disorders often struggle with producing or distinguishing specific phonemes. Tactile cues can provide additional feedback to help these individuals identify and correct errors. For example, tactile prompts can guide tongue placement or airflow control during articulation exercises, resulting in improved speech clarity.

Hearing Impairment and Deafness

For people with hearing impairment, tactile cues offer an alternative means of accessing speech information. Speechreading combined with tactile feedback enables better recognition of speech sounds, especially in situations where auditory input is limited. Tactile cueing techniques like the Tadoma method allow users to “feel” speech, facilitating language development and communication.

Language Learning and Accent Modification

Second language learners and individuals seeking accent modification can benefit from tactile cues to master unfamiliar speech sounds. Tactile feedback helps learners internalize new articulatory patterns by associating physical sensations with correct phoneme production. This multisensory approach accelerates pronunciation accuracy and confidence.

Benefits of Using Tactile Cues for Speech Sounds

Incorporating tactile cues for speech sounds in communication and therapy offers numerous advantages that enhance speech perception, production, and learning outcomes.

- **Improved Speech Sound Discrimination:** Tactile cues help users distinguish between similar phonemes by providing additional sensory information.
- **Enhanced Articulation Accuracy:** Physical feedback guides precise placement and movement of speech articulators.
- **Support for Hearing-Impaired Individuals:** Tactile cues compensate for auditory deficits, facilitating speech perception and language acquisition.

- **Multisensory Learning:** Engaging multiple senses aids memory retention and reinforces language skills.
- **Increased Communication Confidence:** Users gain greater awareness and control over speech production, improving communicative effectiveness.

Challenges and Considerations in Implementing Tactile Cues

Despite their benefits, the use of tactile cues for speech sounds also presents challenges that must be addressed to ensure effective application.

Individual Differences in Sensory Perception

Sensitivity to tactile stimuli varies among individuals, affecting the efficacy of tactile cues. Some users may require personalized adjustments in intensity, location, or type of tactile input to achieve optimal results.

Training and Familiarization Requirements

Both practitioners and users need adequate training to interpret and utilize tactile cues effectively. Familiarization with tactile cueing systems can be time-consuming but is essential for successful integration into therapy or communication routines.

Limitations in Complex Speech Contexts

Tactile cues may be less effective in rapid or complex conversational exchanges where multiple speech sounds occur in succession. Combining tactile cues with auditory and visual inputs remains crucial to overcoming these limitations.

Frequently Asked Questions

What are tactile cues for speech sounds?

Tactile cues for speech sounds refer to sensory information obtained through touch that helps individuals perceive and distinguish speech sounds. These cues can include vibrations, airflow, or articulatory movements felt on the skin or face.

How do tactile cues benefit individuals with hearing impairments?

Tactile cues provide an alternative sensory channel for perceiving speech sounds, helping individuals with hearing impairments to better understand spoken language by feeling vibrations and articulatory movements, thereby enhancing speech perception and communication.

What are common methods used to deliver tactile cues for speech sounds?

Common methods include tactile speech aids, vibrating devices placed on the skin, and techniques like Tadoma, where the listener feels the speaker's lips and throat to perceive speech patterns.

Can tactile cues improve speech therapy outcomes?

Yes, incorporating tactile cues in speech therapy can improve outcomes by providing multisensory feedback, enhancing phoneme recognition, and supporting speech production, especially for individuals with auditory processing difficulties.

What is the Tadoma method in relation to tactile speech cues?

The Tadoma method is a tactile speech perception technique where the listener places their hands on the speaker's face and neck to feel vibrations, movements, and airflow, allowing them to perceive speech through tactile information.

Are tactile cues effective for typical language learners?

While tactile cues are primarily used for individuals with hearing impairments or speech difficulties, they can also complement traditional auditory learning methods by reinforcing phonetic awareness through multisensory engagement.

What recent technologies enhance the use of tactile cues for speech sounds?

Recent technologies include wearable vibrotactile devices, haptic feedback systems integrated with speech recognition software, and advanced tactile displays that convert speech sounds into tactile patterns to aid communication and learning.

Additional Resources

1. Touching Speech: Tactile Cues in Phonetic Learning

This book explores the role of tactile feedback in acquiring and refining speech sounds. It provides an overview of how touch sensations can enhance phonetic awareness and aid in

speech therapy. The text combines research findings with practical applications for educators and clinicians working with speech-impaired individuals.

2. The Tactile Alphabet: Using Touch to Teach Speech Sounds

Focusing on innovative teaching methods, this book delves into tactile techniques for helping children and adults learn speech sounds. It offers detailed descriptions of tactile cue systems that complement auditory and visual learning. Case studies demonstrate the effectiveness of tactile interventions in diverse educational settings.

3. Tactile Speech Perception: Theory and Practice

This comprehensive volume reviews theoretical frameworks behind tactile speech perception and its practical applications. It highlights how tactile cues can supplement auditory information to improve speech comprehension. The book is particularly useful for researchers and speech-language pathologists interested in multisensory integration.

4. Hands-On Phonetics: Tactile Strategies for Speech Sound Acquisition

Designed for speech therapists and educators, this book presents hands-on approaches to teaching phonetics through touch. It includes step-by-step guides for implementing tactile cues to support articulation and pronunciation. The author emphasizes individualized strategies tailored to learners with speech and hearing challenges.

5. Feeling the Sound: Tactile Feedback in Speech Therapy

This text discusses the incorporation of tactile feedback mechanisms in speech therapy sessions. It covers various tactile cue methods, such as vibrotactile devices and manual prompts, to facilitate correct speech production. Therapists will find practical tips and evidence-based techniques to enhance intervention outcomes.

6. Tactile Cues and Speech Sound Disorders: An Integrative Approach

Addressing speech sound disorders, this book integrates tactile cueing techniques with traditional speech therapy practices. It provides assessments and intervention plans that utilize touch to improve speech clarity. The book is a valuable resource for clinicians seeking alternative strategies for complex cases.

7. Multisensory Speech Learning: The Role of Tactile Input

This work examines the benefits of combining tactile input with auditory and visual stimuli in speech learning. It reviews experimental studies showing how tactile cues reinforce speech sound acquisition and retention. Educators and therapists will appreciate the practical insights for creating multisensory learning environments.

8. Touch and Talk: Enhancing Communication through Tactile Speech Cues

Exploring the intersection of touch and speech, this book highlights methods to improve communication skills through tactile cues. It includes techniques for individuals with hearing impairments and those with developmental speech delays. The author advocates for incorporating tactile strategies into mainstream speech education.

9. Tactile Phonology: Understanding Speech through Touch

This scholarly text investigates the phonological aspects of speech that can be accessed via tactile sensation. It discusses how tactile phonology contributes to speech perception and production in various populations. Researchers and advanced students will find in-depth analyses and experimental data supporting tactile approaches.

Tactile Cues For Speech Sounds

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tactile cues for speech sounds: *Speech Sound Disorders* Ken M. Bleile, 2023-11-10 With three new chapters and updates throughout, *Speech Sound Disorders: For Class and Clinic, Fifth Edition* offers a readable and practical guide on the care of speech sound disorders. It emphasizes evidence-based principles and procedures that underlie almost all clinical approaches, making this an ideal textbook for a wide variety of undergraduate and graduate courses. The text is divided into four parts: Foundations, Speech Development, Assessment, and Treatment. Contributors supporting Ken E. Bleile's longstanding text include Todd A. Bohnenkamp, Jaimie L. Gilbert, Samantha Ehler, Lindsey R. Squires, Blair M. Voigt, Carlin Hageman, and Evette Edmister. Key Features: * Each chapter begins with learning objectives and key words, and ends with conclusions and review questions * Readable and practical discussions of complex clinical topics * Coverage of speech sound disorders from infants through adults * Clear link between speech development and clinical decision making * Emphasis on underlying principles and procedures New to the Fifth Edition: * Three new chapters! Treatment Approaches by Blair M. Voigt Motor Learning by Carlin Hageman Late Sounds en Español by Lindsey R. Squires * Updated developmental speech milestones incorporate the latest information from multiple languages Disclaimer: Please note that ancillary content (such as documents, audio, and video, etc.) may not be included as published in the original print version of this book.

tactile cues for speech sounds: *Clinical Management of Articulatory and Phonologic Disorders* Mary Ellen Gordon-Brannan, Curtis E. Weiss, 2007 This revised Third Edition serves as the primary textbook for introductory courses in articulation and phonological disorders. The text focuses on articulation and phonological development and disorders, their management, and the many approaches/techniques of current treatment. Features of this clear text include: chapter subheadings that lead students throughout the material; boxed questions about important

information; case examples to illustrate practical applications; chapter content summaries and study suggestions for instructors; and 100 illustrations. Chapters on treatment feature quick reference protocols of various treatments for students to use in planning intervention for case study projects, observations of clinicians, or their own clients.

tactile cues for speech sounds: Speech Sound Disorders Ken Mitchell Bleile, 2018-12-17
Speech Sound Disorders: For Class and Clinic, Fourth Edition offers a readable and practical guide to the care of speech sound disorders, emphasizing evidence-based principles and procedures that underlie almost all clinical approaches, making this an ideal choice for a wide variety of undergraduate and graduate courses. Nearly twenty-five percent of the chapters offer hands-on analyzes of speech samples from real children. The PluralPlus companion website contains dozens of downloadable assessment and treatment resources for both students and professionals. For an instructor, Speech Sound Disorders provides clear discussions of the connection between speech development and clinical decision making, consistent formatting across chapters, sample syllabi, options for PowerPoint presentations, and hundreds of review questions and learn by doing exercises for in-class activities and homework assignments. Key Features: Each chapter begins with learning objectives and key words, and ends with conclusions and review questions
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Emphasis on underlying principles and procedures
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40 exercises based on speech samples from real children
Practical, hands-on discussion of assessment
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tactile cues for speech sounds: Clinical Management of Speech Sound Disorders Carol Koch, 2018-01-12
Clinical Management of Speech Sound Disorders: A Case-Based Approach meets the need of speech language pathology instructors who work with children who demonstrate articulation and phonological disorders. This text presents an overview of case-based learning as an introductory chapter and the application in the discipline of speech-language pathology and focus on various evidence-based approaches for treating children with speech sound disorders.

tactile cues for speech sounds: *Navigating Speech Sound Disorders in Children* Kathryn Murrell, 2025-05-16
Navigating Speech Sound Disorders in Children is an easy-to-read resource which gives an overview of the whole area of speech sound disorders (SSDs) in children, covering assessment, diagnosis, treatment, and management, underpinned by the latest research in the field. The book focuses on key information, providing helpful therapy tips and evidence-based, practical advice drawing on clinical research and the author's extensive experience. Presented in 50 bite-sized chunks, therapists can find and refer to information quickly and easily. Additional guidance and links to further reading are signposted throughout so that the reader can explore topics in more detail, and a wealth of case examples is included to illustrate each point and demonstrate real-life application. Written by a specialist in the field, this book provides strategies for students and qualified speech and language therapists (SALTs) working with children who present with many different types of SSD. It is valuable reading for both students and less experienced speech and language therapists, as well as seasoned clinicians.

tactile cues for speech sounds: *The Effect of Tactile Cues on Sound Production in Preschoolers with Articulation Impairment Compared with Traditional Phonetic Therapy* Miranda Wolff, 2018
The purpose of this investigation was to explore the effects of tactile facial cues used within traditional phonetic articulation therapy approach for preschool aged children with moderate

to severe speech sound impairment. Previous research using motor based approaches utilizing tactile facial cues for articulation therapy has shown a positive effect on speech sound acquisition and generalization. The majority of these studies included children with significant articulation impairments including children with childhood apraxia of speech and cerebral palsy and targeted sounds in words and phrases. Studies utilizing tactile facial cues are also limited to a few specific programs and not integrated into a traditional phonetic articulation therapy approach use by many speech-language pathologists. There were three participants included in this multiple baseline across behavior study. Each participant received traditional phonetic articulation therapy approach during the baseline sessions. In the intervention phase, tactile facial cues were used when a target was in error. The overall results were mixed. Only two of the participants received tactile facial cues as the third participant reached criterion for all three targets in the baseline phase. Only a total of three out of nine targets reached the intervention phase, however, all three targets for all three participants did reach criterion. Targets improving in the baseline phase indicate the efficacy of a traditional phonetic articulation therapy approach in remediating articulation errors while improvements in the intervention phase indicate a possible benefit in using tactile facial cues when a target does not respond to a traditional phonetic articulation therapy approach alone.

tactile cues for speech sounds: Total Speech: Blending Techniques in Speech and Language Therapy Karen Massey, Gemma Lester, 2023-07-25 This book explores how speech and language therapists can use a wide range of multi-modal therapy techniques to elicit speech sound. Due to the nature of the approach, there is a limited evidence base in the area, so this book draws on the authors' extensive experience, as well as testimonials from families who have been successfully supported by the approach, to offer a new and unique perspective for therapy. By using a total communication approach, the book provides clinicians with the confidence to be more open and experimental in their practice, when traditional routes are proving unsuccessful, to best meet the needs of clients with more complex clinical backgrounds. Chapters include the following: Setting the scene. Persistent speech sound disorders. Popular techniques. Adding the extra dimension. Case studies. How to run a Total Speech group. Total Speech shares success stories of how well-known techniques can be blended to achieve progress and results. It will be a useful addition to any speech and language therapist's therapy toolkit.

tactile cues for speech sounds: Culturally Responsive Practices in Speech, Language, and Hearing Sciences, Second Edition Yvette D. Hyter, Marlene B. Salas-Provance, 2021-11-22 Culturally Responsive Practices in Speech, Language, and Hearing Sciences, Second Edition provides an innovative perspective on cultural responsiveness in the field of communication sciences and disorders. It is imperative for clinicians and scientists to be aware of diverse aspects of globalization: how these aspects may affect their own knowledge, strengths, biases, and interventions, as well as the relationships between the communities, families, and individuals with whom they partner in care. This essential textbook will facilitate the creation of knowledge and the development of attitudes and skills that lead to culturally responsive practices. The text presents conceptual frameworks to guide readers toward cultural responsiveness by becoming critically engaged users of culturally responsive and globally engaged practices. The text is focused on speech, language, and hearing, but also draws from theoretical frameworks in other disciplines for an interprofessional, transdisciplinary, and macro practice perspective, and is appropriate for other allied health professions. New to the Second Edition: * Reorganized chapters and text for a greater flow of information. * Updated throughout to reflect the current state of research. * A thoroughly revised chapter on Culturally Responsive Practices using a Human Rights Approach through a Social Justice Lens (Chapter 4) * Material on Culture and Hearing (Chapter 6) has been updated and expanded * Key terms are now bolded throughout the text. * Content has been edited to be more concise for increased readability and comprehension. * New reflection focus with thought cloud graphic noted to target these areas throughout the book. Key Features: * Case studies facilitating knowledge and skills regarding culturally and linguistically responsive practices * Journal prompts and discussion questions challenging individuals to use critical and dialectical thinking * Real-life

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tactile cues for speech sounds: *Treatment Resource Manual for Speech-Language Pathology, Sixth Edition* Froma P. Roth, Colleen K. Worthington, 2019-10-22 The thoroughly revised Sixth Edition of the best-selling *Treatment Resource Manual for Speech-Language Pathology* remains an ideal textbook for clinical methods courses in speech-language pathology, as well as for students entering their clinical practicum or preparing for certification and licensure. It is also a beloved go-to resource for practicing clinicians who need a thorough guide to effective intervention approaches/strategies. This detailed, evidence-based book includes complete coverage of common disorder characteristics, treatment approaches, information on reporting techniques, and patient profiles across a wide range of child and adult client populations. The text is divided into two sections. The first part is focused on preparing for effective intervention, and the second part, the bulk of the book, is devoted to therapy strategies for specific disorders. Each of these chapters features a brief description of the disorder, case examples, specific suggestions for the selection of therapy targets, and sample therapy activities. Each chapter concludes with a set of helpful hints on intervention and a selected list of available therapy materials and resources. New to the Sixth Edition: * A new chapter on Contemporary Issues including critical thinking, telepractice, simulation technologies, and coding and reimbursement * New tables on skill development in gesture, feeding, and vision * New information on therapist effects/therapeutic alliance * Coverage of emerging techniques for voice disorders and transgender clients * Expanded information on: *Childhood Apraxia of Speech *Cochlear Implants *Cultural and Linguistic Diversity *Interprofessional Practice *Shared Book-Reading *Traumatic Brain Injury *Treatment Dosage/Intensity *Vocabulary Development Key Features: * Bolded key terms with an end-of-book glossary * A multitude of case examples, reference tables, charts, figures, and reproducible forms * Lists of Additional Resources in each chapter Disclaimer: Please note that ancillary content (such as documents, audio, and video, etc.) may not be included as published in the original print version of this book.

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tactile cues for speech sounds: Evidence-Based Practice in Speech Pathology Sheena Reilly, Jenni Oates, 2003-12-19 This text introduces therapists and speech pathologists to the principles of evidence-based practice and guides readers to the best available evidence regarding the management of a range of disorders within speech pathology. It should be applicable to speech pathologists at any stage of their clinical career, as well as being of use to speech pathology students and other health care professionals. The book is organized into three sections. In the first, the subject of evidence-based practice is introduced. Its application to the profession of speech pathology is addressed and types and levels of evidence are described. The second part focuses on a number of sub-specialist areas of speech pathology practice (dysphagia; paediatric motor speech disorders; aphasiology; voice; paediatric language and AAC). In the third section of the book the authors demonstrate how to apply the principles of evidence-based practice to clinical practice, to research and to education.

tactile cues for speech sounds: Treatment Resource Manual for Speech-Language Pathology, Seventh Edition Froma P. Roth, Colleen K. Worthington, 2023-10-06 With major content updates and many more supporting online materials, the seventh edition of the Treatment Resource Manual for Speech-Language Pathology is an accessible and reliable source of basic treatment information and techniques for a wide range of speech and language disorders. This detailed, evidence-based manual includes complete coverage of common disorder characteristics, treatment approaches, reporting techniques, and patient profiles for child and adult clients. Divided into two sections, the first focuses on preparing for effective interventions, and includes the basic principles of speech-language therapies including various reporting systems and techniques. The second part, the bulk of the book, is devoted to treatments for specific communication disorders, including speech sound disorders, pediatric language disorders, autism spectrum disorder, adult aphasia and traumatic brain injury (TBI), motor speech disorders, dysphagia, stuttering, voice disorders, and alaryngeal speech. The last three chapters focus on effective counseling skills, cultural competence and considerations, and contemporary professional issues, including critical thinking, telepractice, simulation technologies, and coding and reimbursement. Treatment Resource Manual for Speech-Language Pathology, Seventh Edition is an ideal resource for academic courses on intervention and clinical methods in graduate speech-language programs and as a more practical supplementary text to the more traditional theoretical books used for undergraduate clinical methods courses. It is also helpful as a study guide for certification and licensing exams, and a handy manual for practicing clinicians in need of a single resource for specific therapy techniques and materials for a wide variety of communication disorders. New to the Seventh Edition * Updates to each disorder-focused chapter on treatment efficacy and evidence-based practice * New focus on a social model of disability (diversity-affirming approach to intervention) * Substantial update on approaches for autism * Expanded discussion of the use of telepractice to conduct intervention * Expanded information on cultural/linguistic diversity and cultural responsiveness/competence within the context of therapeutic intervention * Updated information on incidence/prevalence of aphasia and expanded discussion of treatment efficacy in TBI, spasmodic dysphonia, and goals for treatment of motor speech disorders * Additional Helpful Hints in each disorder chapter * Updates to the Lists of Additional Resources and Recommended Readings * Updated citations and references throughout * Significant expansion of supplementary online materials to facilitate pedagogy and enhance learning Key Features * Chapters focused on treatment of disorders include a concise description of the disorder, case examples, specific suggestions for the selection of therapy targets, and sample therapy activities * Bolded key terms with an end-of-book glossary * A multitude of case examples, reference tables, charts, figures, and reproducible forms * Helpful Hints and Lists of Additional

Resources in each chapter * Updated book appendices that include the new ASHA Code of Ethics and Cultural Competency checklists in addition to disorder-specific appendices in many chapters Please note that ancillary content (such as documents, audio, and video, etc.) may not be included as published in the original print version of this book.

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tactile cues for speech sounds: The Mislabeled Child Brock Eide, Fernet Eide, 2006-08-01 An incredibly reassuring approach by two physicians who specialize in helping children overcome their difficulties in learning and succeeding in school For parents, teachers, and other professionals seeking practical guidance about ways to help children with learning problems, this book provides a comprehensive look at learning differences ranging from dyslexia to dysgraphia, to attention problems, to giftedness. In The Mislabeled Child, the authors describe how a proper understanding of a child's unique brain-based strengths can be used to overcome many different obstacles to learning. They show how children are often mislabeled with diagnoses that are too broad (ADHD, for instance) or are simply inaccurate. They also explain why medications are often not the best ways to help children who are struggling to learn. The authors guide readers through the morass of commonly used labels and treatments, offering specific suggestions that can be used to help children at school and at home. This book offers extremely empowering information for parents and professionals alike. The Mislabeled Child examines a full spectrum of learning disorders, from dyslexia to giftedness, clarifying the diagnoses and providing resources to help. The Eides explain how a learning disability encompasses more than a behavioral problem; it is also a brain dysfunction that should be treated differently.

tactile cues for speech sounds: Mosby's Review Questions for the Speech-Language Pathology PRAXIS Examination E-Book Dennis M. Ruscello, Mosby, 2009-12-03 With approximately 1,400 practice questions - more than any other exam review - this book provides the most complete, reliable preparation available for the PRAXIS II subject assessment examination. Review questions can be selected to match the style and question distribution of the real exam to familiarize you with the examination experience and help you build test-taking confidence. This title includes additional digital media when purchased in print format. For this digital book edition, media content is not included.

tactile cues for speech sounds: New perspectives on the role of sensory feedback in speech production John Houde, Xing Tian, Jeffery A. Jones, Douglas M. Shiller, Lucie Menard, 2023-06-05

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