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Guide to

# Communication Milestones

**2012 Edition**

- Concepts
- Feeding
- Listening
- Literacy
- Mean Length of Utterance
- Morphology
- Phonological Awareness
- Pragmatics
- Pronouns
- Questions
- Speech Sound Acquisition
- Vocabulary

Janet R. Lanza  
Lynn K. Flahive

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## sure Statement

**Texas Christian University**

**LinguiSystems author and receives  
paid a stipend for this course**

**no relevant nonfinancial**

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## About the Authors



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**Lynn K. Flahive, M.S., CCC-SLP**, has over 25 years experience as a speech-language pathologist. She worked in private and public schools in Wisconsin, Ohio, Illinois, and Texas for 12 years before joining the Department of Communication Sciences and Disorders at Texas Christian University in Fort Worth, Texas. Lynn has special interests in working with early childhood and early elementary-aged children with phonological and/or language delays. She is a Board Recognized Specialist in Child Language. Lynn is past President of the Texas Speech-Language-Hearing Association and past Executive Director of the National Student Speech Language Hearing Association.

Janet and Lynn have co-authored numerous products for LinguiSystems. They also present workshops nationally and in Canada on the topics of practical and motivational speech and language therapy for young children.

## Authors

M.S., CCC-SLP, has worked as a speech-gist in public schools, private practice, and clinic in Texas since 1976. She has been an instructor in the Department of Communication Sciences and Disorders at Texas Christian University in Fort Worth, Texas, since 1989. At the TCU Miller Speech Clinic, Janet is an instructor and clinical supervisor in classroom settings of preschool children with communication disorders.

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They are authors of various products for LinguiSystems. They have also presented in Canada on the topics of practical and clinical applications for young children.

## Introduction

*When should I expect my child to say two-word phrases, produce consonant clusters, or follow two-step directions? Does this client have the speech and language skills that are expected at his age?* These are questions often asked of us as speech-language pathologists (SLPs) or that we ask ourselves as we work with children with communication disorders.

Thanks to researchers and clinicians who have provided us with invaluable information over many years, we know that typical speech and language development follows a predictable progression. SLPs must familiarize themselves with the steps in this progression to provide the most effective therapy for clients and to give honest, research-based information to their families. If you are like us, you learned much of this information in college and, given some time to search, could locate it if you needed to. But time is scarce in the life of an SLP. This booklet provides this important information at your fingertips.

We found many different sources for communication milestones while conducting research to create this guide. Most sources agree with each other; some vary a bit. We drew from numerous reliable sources to provide a snapshot of milestones for the major areas of childhood speech and language. As in all listings of milestones, the information represents an average age at which most monolingual, English-speaking children will acquire a skill. If a child has not mastered a certain skill by the suggested age, that does not indicate a disorder. However, if most of the items in an age range have not been achieved, parents and professionals who work with the child should consider further investigation in that area.

*LinguiSystems Guide to Communication Milestones* contains developmental milestones for the following areas:

- Feeding
- Speech-Sound Acquisition
  - Prelinguistic Speech Development
  - Phoneme Development
  - Phonological Patterns
  - Speech Intelligibility Expectations
- Pronouns
- Morphology
- Mean Length of Utterance
- Pragmatics
- Literacy
- Phonological Awareness
- Concepts
- Vocabulary
- Questions
  - Answering Questions
  - Asking Questions
- Listening

We learned a great deal and were reminded of so much helpful information while developing this resource. This process also served as a nice validation that we really are doing things in the right order! We look forward to having this booklet on our shelves to use as a handy reference when talking to parents and co-workers and when making clinical decisions. We hope you will too!

Janet and Lynn

## Feeding

The American Speech-Language-Hearing Association states that "speech-language pathologists play a primary role in the evaluation and treatment of infants, children, and adults with swallowing and feeding disorders" (ASHA, 2002). SLPs are knowledgeable about normal and abnormal anatomy and physiology with respect to respiration, swallowing, and speech. Thus, it is appropriate for SLPs to play a role in feeding.

Age	Milestones
Birth – 4 months	<ul style="list-style-type: none"> <li>• Sucks fingers when near mouth</li> <li>• Places hands on bottle during feeding</li> <li>• Recognizes a nipple or bottle</li> <li>• Pats a bottle with one or both hands</li> </ul>
5 – 6 months	<ul style="list-style-type: none"> <li>• Holds a bottle independently with one or both hands</li> <li>• Mouths and gums solid foods</li> <li>• Opens mouth when a spoon is presented</li> </ul>
6 – 9 months	<ul style="list-style-type: none"> <li>• Feeds self crackers</li> <li>• Drinks from a cup held by an adult – some loss of liquid</li> <li>• Reaches for a spoon when presented/bangs a spoon</li> <li>• Prefers for a parent to feed</li> </ul>
9 – 12 months	<ul style="list-style-type: none"> <li>• Holds a soft cookie in mouth (9 months) and bites through it (12 months)</li> <li>• Imitates stirring with a spoon</li> <li>• Eats lumpy, mashed food</li> <li>• Chews using rotary jaw action (emerging)</li> </ul>
12 – 18 months	<ul style="list-style-type: none"> <li>• Grasps a spoon with a full hand</li> <li>• Brings a full spoon to mouth, turning spoon over en route</li> <li>• Begins to drink through a straw</li> <li>• Holds a cup with two hands</li> <li>• Drinks with four or five consecutive swallows</li> </ul>
18 – 24 months	<ul style="list-style-type: none"> <li>• Gives up the bottle</li> <li>• Scoops food with a spoon and brings to mouth with spillage</li> <li>• Drinks from a cup with limited spillage</li> <li>• Swallows with lip closure</li> <li>• Self-feeds frequently</li> <li>• Chews a broad range of food</li> <li>• Has precise up/down tongue movement</li> </ul>
24 – 36 months	<ul style="list-style-type: none"> <li>• Bites through a variety of food thicknesses</li> <li>• Brings a spoon/fork to mouth, palm up, self-feeds with little spillage</li> <li>• Holds a small, open cup in one hand with little spillage</li> <li>• Chews with lips closed</li> <li>• Chews using stable rotary jaw action</li> </ul>

We'd like to thank the following sources from which we obtained information for this section: The American Speech-Language-Hearing Association ([www.asha.org/policy](http://www.asha.org/policy)); Arvedson (2006); and Nicolosi, Harryman, & Kresheck (2006). For more information, please see the full References, Websites, & Resources list on pages 22-24.

# ding

Association states that "speech-language evaluation and treatment of infants, children, and disorders" (ASHA, 2002). SLPs are familiar with anatomy and physiology with respect to the mouth and it is appropriate for SLPs to play a role in

Milestones
<ul style="list-style-type: none"> <li>mouth</li> <li>during feeding</li> <li>bottle</li> <li>with both hands</li> </ul>
<ul style="list-style-type: none"> <li>independently with one or both hands</li> <li>with foods</li> <li>when spoon is presented</li> </ul>
<ul style="list-style-type: none"> <li>held by an adult – some loss of liquid</li> <li>when spoon is presented/bangs a spoon</li> <li>is used</li> </ul>
<ul style="list-style-type: none"> <li>mouth (9 months) and bites through it</li> </ul>
<ul style="list-style-type: none"> <li>spoon</li> <li>used</li> <li>action (emerging)</li> </ul>
<ul style="list-style-type: none"> <li>with full hand</li> <li>mouth, turning spoon over en route</li> <li>with a straw</li> <li>in sips</li> <li>consecutive swallows</li> </ul>
<ul style="list-style-type: none"> <li>held on and brings to mouth with spillage</li> <li>limited spillage</li> <li>is used</li> </ul>
<ul style="list-style-type: none"> <li>with food</li> <li>with tongue movement</li> </ul>
<ul style="list-style-type: none"> <li>with food thicknesses</li> <li>mouth, palm up, self-feeds with little spillage</li> <li>held in one hand with little spillage</li> </ul>
<ul style="list-style-type: none"> <li>with voluntary jaw action</li> </ul>

from which we obtained information for this Learning Association ([www.asha.org/policy](http://www.asha.org/policy)); Chescheck (2006). For more information, see resources list on pages 22-24.

# Speech-Sound Acquisition

## Prelinguistic Speech Development

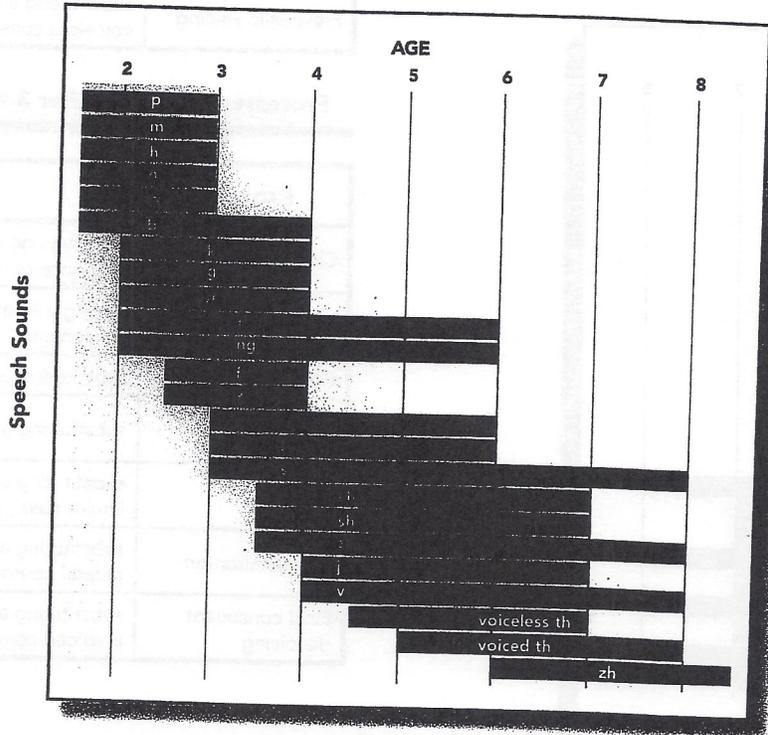
Oller's study (1980) is widely referenced when looking at the stages children go through in the acquisition of articulation and phonological skills. Though each stage has a designated time frame, there is overlap between stages. Each new stage features characteristics not observed in prior stages.

Stage	Age	Milestones
1—Phonation	Birth – 1 month	<ul style="list-style-type: none"> <li>Demonstrates reflexive vocalizations such as crying, burping, coughing, and sneezing</li> <li>Demonstrates nonreflexive sounds that are similar to syllabic nasals</li> </ul>
2—Cooing and Gooing	2 – 3 months	<ul style="list-style-type: none"> <li>Uses sounds that are acoustically similar to                             <ul style="list-style-type: none"> <li>back vowels</li> <li>consonant-vowel (CV) and vowel-consonant (VC) productions containing back vowels (/u, ʊ, o, ɔ, a/) and back consonants (velars /k, g, ŋ/)</li> </ul> </li> </ul>
3—Exploration/Expansion	4 – 6 months	<ul style="list-style-type: none"> <li>Gains better control of laryngeal and articulatory mechanisms during this period by engaging in vocal play</li> <li>Squeals, growls, yells, produces "raspberries" (bilabial /p, b, m/ and lingualabial trills)</li> <li>Produces vocalizations that vary daily and weekly</li> <li>Produces vowels with better oral resonance</li> <li>Begins marginal babbling with CV and VC syllable sequences</li> </ul>
4—Canonical Babbling	7 – 9 months	<ul style="list-style-type: none"> <li>Continues to use CV syllables that have more adult-like timing</li> <li>Uses some reduplicated syllables such as /bɑbɑ/ and /mama/</li> <li>Consonant phonetic inventory may have stops, glides, nasals</li> <li>Vowel phonetic inventory may have lax vowels /ɛ, ɪ, ʌ/</li> <li>Uses fewer velars (back sounds); increases use of alveolars and bilabials (front sounds)</li> </ul>
5—Variegated Babbling	10 – 12 months	<ul style="list-style-type: none"> <li>Continues to use CV syllables</li> <li>Begins variegated babbling; uses different CV syllables that result in verbalizations such as /bɑmɑgʌ/ and /tikɑti/</li> <li>Produces adult-like intonation and prosody, resulting in utterances that sound like a real question or exclamation</li> <li>Most commonly used vowels at this time are /ɛ, ʌ, a, ʊ/ (Bauman-Wangler, 1994)</li> <li>Most frequently used consonants at this time are /h, d, b, m, t, g, s, w, n, k, j, p/ (Locke, 1983)</li> </ul>

**Phoneme Development**

Researchers use two different methodologies to determine the age of speech-sound acquisition. In cross-sectional studies, children of different ages are tested on their abilities to produce speech sounds at a given point in time. Longitudinal studies involve testing the same children's productions over time. Comparing the results of the various studies can be difficult because researchers have used a variety of mastery levels and means of eliciting responses. In some studies, sounds produced correctly 100% of the time were considered mastered, but for others, the criterion was 75% of the time. Words were produced spontaneously in some studies but were imitated in others. Some researchers required the mastery level to be met in all word positions, whereas others were concerned only with the initial and final word positions (Flahive & Hodson, in press).

Despite the variability in criteria, some general agreement yields a few overall conclusions about the acquisition of individual sounds. Nasals "m, n, ng," stops "p, b, t, d, k, g," and glides "w, y" are acquired earliest, followed by fricatives "f, v, s, z, sh, zh," voiced and voiceless "th," affricates "ch, j," and then liquids "l, r" (Sander, 1972). Sander's analysis of previous studies also noted that voiced and voiceless "th" were generally the latest phonemes to be acquired.

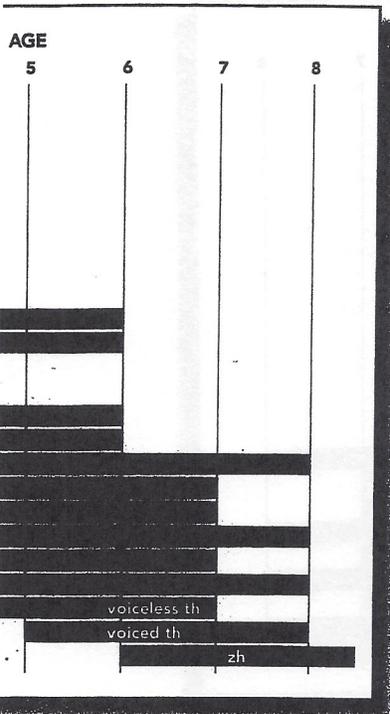


Data from Sander (1972)

**Development**

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neral agreement yields a few overall dual sounds. Nasals "m, n, ng," re acquired earliest, followed by fricatives "f, v," affricates "ch, j," and then liquids. Previous studies also noted that voiced and onemes to be acquired.



Data from Sander (1972)

**Phonological Patterns**

**Processes Disappearing by 3 Years**

Process	Description	Example
Unstressed syllable deletion	omitting a weak syllable	banana → /nænə/
Final consonant deletion	omitting a singleton consonant at the end of a word	cat → /kæ/
Diminutization	adding /i/ at the end of nouns	dog → /dagi/
Velar fronting	substituting a front sound for a back sound	can → /tæn/
Consonant assimilation	changing a phoneme so it takes on a characteristic of another sound in the word	cat → /tæt/
Reduplication	repeating phonemes or syllables	bottle → /bɔbɔ/
Prevocalic voicing	substituting a voiced consonant for a voiceless consonant before a vowel	sun → /zʌn/

**Processes Persisting After 3 Years**

Process	Description	Example
Cluster reduction	omitting one or more consonants in a sequence of consonants	clean → /kin/
Epenthesis	adding a sound, typically /ʌ/, between two consonants	black → /bʌlæk/
Gliding	substituting /w/ or /j/ for another consonant	run → /wʌn/
Vocalization/ Vowelization	substituting a vowel for a consonant	car → /kə/
Stopping	substituting a stop consonant for a fricative, liquid, nasal, or glide	sun → /dʌn/
Depalatalization	substituting a nonpalatal consonant for a palatal consonant	shy → /saɪ/
Final consonant devoicing	substituting a voiceless final consonant for a voiced consonant	bag → /bæk/

Data from Stoel-Gammon & Dunn (1985)

Phonological Patterns, continued

We reviewed several studies to determine the age by which at least 75% of children no longer use a given process.

Individual Process	Description	Example	Likely Age of Disappearance
Denasalization	changing a nasal consonant to a nonnasal	mat → /bæt/	2.6
Assimilation	changing a phoneme so it takes on a characteristic of another sound in the word	cat → /tæt/	3
Affrication	substituting an affricate for a nonaffricate	sheep → /tʃip/	3
Final consonant deletion	omitting a singleton consonant at the end of a word	cat → /kæ/	3
Fronting of initial velar singles	substituting a front sound for a back sound	can → /tæn/	4
Deaffrication	replacing an affricate with a continuant or stop	chip → /sɪp/	4
Cluster reduction (without /s/)	omitting one or more consonants in a sequence of consonants	grape → /gep/	4
Depalatalization of final singles	substituting a nonpalatal for a palatal sound at the end of a word	dish → /dɪʃ/	4.6
Depalatalization of initial singles	substituting a nonpalatal for a palatal sound at the beginning of a word	shy → /taɪ/	5
Alveolarization	substituting an alveolar for a nonalveolar sound	chew → /tu/	5
Final consonant devoicing	substituting a voiceless final consonant for a voiced consonant	bag → /bæk/	5
Cluster reduction (with /s/)	omitting /s/ in the initial position of a cluster	step → /tɛp/	5
Labialization	replacing a nonlabial sound with a labial sound	tan → /pæn/	6
Initial voicing	substituting a voiced consonant for a voiceless consonant before a vowel	sun → /zʌn/	6
Gliding of initial liquids	substituting a /w/ or /j/ for another consonant	run → /wʌn/	7
Epenthesis	adding a sound, typically /ʌ/, between two consonants	black → /bʌlæk/	8

Terms, continued

the age by which at least 75% of children

	Example	Likely Age of Disappearance
to	mat → /bæt/	2.6
kes	cat → /tæt/	3
	sheep → /tʃip/	3
int	cat → /kæ/	3
a	can → /tæn/	4
	chip → /ʃip/	4
	grape → /gep/	4
a	dish → /dɪʃ/	4.6
a ig	shy → /taɪ/	5
	chew → /tu/	5
	bag → /bæk/	5
	step → /tɛp/	5
	tan → /pæn/	6
ant fore	sun → /zʌn/	6
	run → /wʌn/	7
	black → /blæk/	8

Data from Peña-Brooks & Hegde (2007)

Speech Intelligibility Expectations

Age	Intelligibility Level
19 – 24 months	25% – 50%
2 – 3 years	50% – 75%
4 – 5 years	75% – 90%
5+ years	90% – 100%

Data from Peña-Brooks & Hegde (2007)

We'd like to thank the following sources from which we obtained information for this chapter: Bauman-Wangler (1994), Bowen (www.speech-language-therapy.com/acquisition.html), Flahive & Hodson (in press), Locke (1983), Oller (1980), Peña-Brooks & Hegde (2007), and Sander (1972). For more information, please see the full References, Websites, & Resources list on pages 22-24.

Pronouns

There is no clear-cut progression for the acquisition of pronouns. However, most linguists agree that *I* and *it* are the first pronouns to emerge, followed by *you*. Research also indicates that children use most subjective and objective pronouns by three years of age and possessive pronouns by age five.

Approximate Age

Pronouns

12 – 26 months	I, it (subjective and objective)
27 – 30 months	my, me, mine, you
31 – 34 months	your, she, he, yours, we
35 – 40 months	they, us, hers, his, them, her
41 – 46 months	its, our, him, myself, yourself, ours, their, theirs
47+ months	herself, himself, itself, ourselves, yourselves, themselves

We'd like to thank Owens (1996) from whom we obtained information for this section. For more information, please see the full References, Websites, & Resources list on pages 22-24.

## Pragmatics

Pragmatics is the study of speaker-listener intentions and interactions, and all elements in the environment surrounding the message. It is often referred to as *social language skills*.

Age	Milestones
Birth – 6 months	<ul style="list-style-type: none"> <li>• Startles to loud sounds</li> <li>• Responds to voice and sound</li> <li>• Turns head toward sound source</li> <li>• Watches speaker's face when spoken to</li> <li>• Discriminates between strangers and familiar people</li> <li>• Stops crying when spoken to</li> <li>• Varies responses to different family members</li> <li>• Smiles when spoken to</li> <li>• Has a social smile</li> <li>• Uses babbling for gaining attention and expressing demand</li> <li>• Establishes eye contact</li> </ul>
6 – 12 months	<ul style="list-style-type: none"> <li>• Responds to "no"</li> <li>• Responds to name and pats image of self in mirror</li> <li>• Points to learn new vocabulary</li> <li>• Tries to "talk" to listener</li> <li>• Coos and squeals for attention</li> <li>• Laughs when playing with objects</li> <li>• Tries to communicate by actions and gestures</li> <li>• Smiles at self in mirror</li> <li>• Plays pat-a-cake and peek-a-boo games</li> <li>• Copies simple actions of others</li> <li>• Shouts to attract attention</li> </ul>
1 – 2 years	<ul style="list-style-type: none"> <li>• Follows simple directions, especially with a gestural cue</li> <li>• Waves bye-bye</li> <li>• Indicates wet pants</li> <li>• Repeats actions that made someone laugh</li> <li>• Engages in parallel play</li> <li>• Pairs gestures with words to make wants known (e.g., "more" and "up")</li> <li>• Imitates adult behaviors in play</li> <li>• Refers to self by name</li> <li>• Exhibits verbal turn-taking</li> <li>• Protests by vocalizing "no"</li> <li>• Engages in simple pretend play, such as talking on a telephone</li> <li>• Says "bye" and other social words, such as "hi," "thank you," and "please"</li> <li>• Talks to self during play</li> <li>• Practices intonation, sometimes imitating an adult</li> </ul>
2 – 3 years	<ul style="list-style-type: none"> <li>• Watches other children and briefly joins in their play</li> <li>• Participates in associative play</li> <li>• Requests permission for items or activities</li> <li>• Begins to use language for fantasies, jokes, and teasing</li> <li>• Makes conversational repairs when listener does not understand</li> </ul>

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rs when listener does not understand

Age	Milestones
2 – 3 years, continued	<ul style="list-style-type: none"> <li>• Engages in longer dialogues</li> <li>• Begins to play house</li> <li>• Participates in simple group activities</li> <li>• Defends own possessions</li> <li>• Carries on "conversation" with self and dolls</li> <li>• Engages in simple, make-believe activities</li> <li>• Begins to control behavior verbally rather than just physically</li> <li>• Holds up fingers to tell age</li> <li>• Looks for missing toys</li> <li>• Helps put things away</li> </ul>
3 – 4 years	<ul style="list-style-type: none"> <li>• Follows two-step related directions without cues</li> <li>• Takes turns and plays cooperatively</li> <li>• Relates personal experiences through verbalization</li> <li>• Separates from primary caregiver easily</li> <li>• Frequently practices conversation skills by talking to self</li> <li>• Begins dramatic play, acting out whole scenes</li> <li>• Shows frustration if not understood</li> <li>• Expresses ideas and feelings</li> </ul>
4 – 5 years	<ul style="list-style-type: none"> <li>• Follows three-step directions without cues</li> <li>• Uses direct requests with justification (e.g., "Stop that. You're hurting me.")</li> <li>• Uses words to invite others to play</li> <li>• Uses language to resolve disputes with peers</li> <li>• Plays competitive exercise games</li> <li>• Has good control of the elements of conversation</li> <li>• Speaks of imaginary conditions, such as "What if ..." or "I hope ..."</li> </ul>
5 – 6 years	<ul style="list-style-type: none"> <li>• Begins to use word plays</li> <li>• Uses threats and promises</li> <li>• Asks meanings of words</li> <li>• Likes to complete projects</li> <li>• Makes purchases at stores</li> <li>• Asks questions for information</li> <li>• Chooses own friends</li> <li>• Takes more care in communicating with unfamiliar people</li> <li>• Engages in cooperative play, such as making group decisions, assigning roles, and playing fairly</li> <li>• Announces topic shifts</li> </ul>

We'd like to thank the following sources from which we obtained information for this section: AutismInfo ([www.autisminfo.com/milestones.htm#B](http://www.autisminfo.com/milestones.htm#B)); Beyond Therapy ([http://centraltherapy.com/?page\\_id=140](http://centraltherapy.com/?page_id=140)); Brooks & Engmann-Hartung (1987); the Child Development Institute ([www.childdevelopmentinfo.com](http://www.childdevelopmentinfo.com)); Communication Works ([www.cwtherapy.com/pragmatics2.html](http://www.cwtherapy.com/pragmatics2.html)); KidTalk, Inc. ([www.kidtalk.org/milestones.html](http://www.kidtalk.org/milestones.html)); the National Institute on Deafness and Other Communication Disorders (<http://www.nidcd.nih.gov/health/voice/speechandlanguage.asp>); Nicolosi, Harryman, & Kresheck (2006); and Shulman (1991). For more information, please see the full References, Websites, & Resources list on pages 22-24.

## Literacy

SLPs' knowledge of normal and disordered language acquisition, and their clinical experience in developing individualized programs for children and adolescents, prepare them to assume a variety of roles related to the development of reading and writing. Appropriate roles and responsibilities for SLPs include, but are not limited to (a) preventing written language problems by fostering language acquisition and emergent literacy; (b) identifying children at risk for reading and writing problems; (c) assessing reading and writing; (d) providing intervention and documenting outcomes for reading and writing; and (e) assuming other roles, such as providing assistance to general education teachers, parents, and students; advocating for effective literacy practices; and advancing the knowledge base (ASHA, 2001).

This chart lists reasonable expectations of literacy skills in children from infancy through seven years of age.

Age	Milestones
3 – 12 months	<ul style="list-style-type: none"> <li>• Likes to chew and pat books</li> <li>• Can focus on large and bright pictures in a book</li> <li>• Shares books with an adult as routine part of life</li> </ul>
1 – 2 years	<ul style="list-style-type: none"> <li>• Recognizes certain books by their covers</li> <li>• Listens to simple stories, songs, and rhymes</li> <li>• Likes to turn pages</li> <li>• Attends to a book or a toy for two minutes</li> <li>• Points to and labels pictures independently</li> <li>• Pretends to read books</li> </ul>
2 – 3 years	<ul style="list-style-type: none"> <li>• Likes to listen to books/stories for longer periods of time</li> <li>• Holds a book correctly</li> <li>• Begins to recognize logos (e.g., McDonald's Golden Arches)</li> <li>• Begins to show a difference in writing versus drawing</li> </ul>
3 – 4 years	<ul style="list-style-type: none"> <li>• Begins to pay attention to specific print, such as the first letter of his name</li> <li>• Recognizes logos and other environmental print and understands that print carries a message</li> <li>• Identifies some letters and makes letter/sound matches</li> <li>• Participates in rhyming games</li> <li>• Talks about characters in a book</li> <li>• Likes to "read" stories to herself and others</li> <li>• Protests if an adult changes the story</li> <li>• Produces some letter-like forms in scribbles that resemble letters</li> </ul>
4 – 5 years	<ul style="list-style-type: none"> <li>• Understands story sequence</li> <li>• Understands the function and purpose of print</li> <li>• Knows many letter names</li> <li>• Uses more letter-like forms than scribbles</li> </ul>

**racy**

language acquisition, and their clinical programs for children and adolescents, related to the development of reading disabilities for SLPs include, but are not limited to: (a) identifying children at risk for reading and writing; (b) providing intervention and support; (c) providing intervention and support; and (d) providing intervention and support; and (e) assuming other roles, such as collaborating with classroom teachers, parents, and students; and advancing the knowledge base

literacy skills in children from infancy

Milestones
<ul style="list-style-type: none"> <li>• Looks at bright pictures in a book</li> <li>• Treats reading as routine part of life</li> </ul>
<ul style="list-style-type: none"> <li>• Identifies books by their covers</li> <li>• Recognizes words, songs, and rhymes</li> </ul>
<ul style="list-style-type: none"> <li>• Reads a story for two minutes</li> <li>• Writes letters independently</li> </ul>
<ul style="list-style-type: none"> <li>• Reads stories for longer periods of time</li> <li>• Recognizes words (e.g., McDonald's Golden Arches)</li> <li>• Shows preference in writing versus drawing</li> </ul>
<ul style="list-style-type: none"> <li>• Identifies words to specific print, such as the first letter</li> </ul>
<ul style="list-style-type: none"> <li>• Recognizes other environmental print and understands its meaning</li> <li>• Identifies and makes letter/sound matches</li> <li>• Plays word games</li> <li>• Reads words in a book</li> <li>• Reads to herself and others</li> <li>• Retells the story</li> <li>• Writes words in scribbles that resemble letters</li> </ul>
<ul style="list-style-type: none"> <li>• Shows preference for print over scribbles</li> <li>• Understands meaning and purpose of print</li> <li>• Writes words</li> <li>• Shows preference for words over scribbles</li> </ul>

Age	Milestones
Kindergarten	<ul style="list-style-type: none"> <li>• Recognizes letters and letter-sound matches</li> <li>• Understands that print is read left to right and top to bottom</li> <li>• Retells simple stories</li> <li>• Begins to write letters and some words heard often</li> <li>• Begins to write stories with some readable parts with assistance</li> <li>• Tries to spell words when writing</li> </ul>
End of Kindergarten	<ul style="list-style-type: none"> <li>• Understands that spoken words are made up of sounds</li> <li>• Recognizes some words by sight</li> <li>• Identifies and writes uppercase and lowercase letters</li> <li>• "Reads" a few picture books from memory</li> <li>• Prints own first and last name</li> </ul>
Beginning of First Grade	<ul style="list-style-type: none"> <li>• Identifies an increasing number of words by sight</li> <li>• Begins to decode new words independently</li> <li>• Uses a variety of reading strategies such as rereading, predicting what will happen, asking questions, or using visual cues or pictures</li> <li>• Reads and retells familiar stories</li> <li>• Reads aloud with ease</li> <li>• Decides independently to use reading and writing for different purposes</li> <li>• Sounds out and represents major sounds in words when trying to spell</li> <li>• Tries to use some punctuation and capitalization</li> </ul>
End of First Grade	<ul style="list-style-type: none"> <li>• Identifies letters, words, and sentences</li> <li>• Has a sight vocabulary of 100 words</li> <li>• Understands what is read</li> <li>• Creates rhyming words</li> <li>• Reads grade-level material fluently</li> <li>• Expresses ideas through writing</li> <li>• Prints clearly</li> <li>• Spells frequently-used words correctly</li> <li>• Begins sentences with capital letters and attempts to use punctuation</li> <li>• Writes a variety of stories, journal entries, or notes</li> </ul>

We'd like to thank the following sources from which we obtained information for this section: The American Speech-Language-Hearing Association ([www.asha.org/policy](http://www.asha.org/policy), [www.asha.org/public/speech/development/chart.htm](http://www.asha.org/public/speech/development/chart.htm), and [www.asha.org/about/publications/literacy/](http://www.asha.org/about/publications/literacy/)); the United States Department of Education ([www.ed.gov/parents/academic/help/reader/part9.html](http://www.ed.gov/parents/academic/help/reader/part9.html)); and the University of North Carolina at Chapel Hill, School of Medicine ([www.med.unc.edu/ahs/clds/files/early-childhood-resources/OralandWrittenLanguageMilestones.pdf](http://www.med.unc.edu/ahs/clds/files/early-childhood-resources/OralandWrittenLanguageMilestones.pdf)). For more information, please see the full References, Websites, & Resources list on pages 22-24.

## Phonological Awareness

Phonological awareness is the ability to manipulate the structure of an utterance independently from its meaning. It is an auditory task that requires an individual to manipulate the utterance at the word, syllable, or sound level. According to the National Center on Education and the Economy, "Children who readily develop phonemic awareness in kindergarten will probably learn to read easily" (Goldsworthy, 2001, p. 3).

Phonological awareness skills develop from syllable, to onset-rime, to phoneme. These skills begin at age three and continue through the development of early reading skills at ages six and seven.

Skill	Definition	Sample Task
Syllable Segmentation	counts the number of syllables in a word	How many syllables do you hear in <i>butterfly</i> ?
Syllable Blending	blends syllables into a word after they are given separately	What word do you hear when I say <i>cow...boy</i> ?
Rhyming	identifies words that sound alike or rhyme	Which word rhymes with <i>mat</i> ; <i>star</i> or <i>hat</i> ?
Phoneme Isolation	identifies whether a given sound occurs at the beginning, middle, or end of a word	In the word <i>sun</i> , is the /s/ at the beginning, middle, or end of the word?
Initial Alliteration	identifies the beginning sound in a word	Which word begins with /t/; <i>toad</i> or <i>boat</i> ?
Final Alliteration	identifies the last sound in a word	Which word ends with /b/; <i>dog</i> or <i>tub</i> ?
Sound Blending	blends sounds into a word after they are given separately	What word do you hear when I say /b/... /a/.../t/?
Sound Deletion	deletes a given sound from a word and says the new word	Say <i>cup</i> without the /k/.
Sound Substitution	replaces a specified sound in a word and says the new word or syllable	Say <i>top</i> ; now change /t/ to /h/.
Sound-Grapheme Matching	identifies grapheme(s) associated with individual sounds	What letters say /k/?

We'd like to thank the following sources from which we obtained information for this section: Gillon (2004) and Goldsworthy (2001). Flahive & Lanza (2004) was used as a source for this chapter as well. For more information, please see the full References, Websites, & Resources list on pages 22-24.

## al Awareness

manipulate the structure of an utterance auditory task that requires an individual syllable, or sound level. According to the Economy, "Children who readily rten will probably learn to read easily"

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Condition	Sample Task
Number of syllables	How many syllables do you hear in <i>butterfly</i> ?
Divide into a word and syllables	What word do you hear when I say <i>cow...boy</i> ?
Identify that sound	Which word rhymes with <i>mat</i> ; <i>star</i> or <i>hat</i> ?
Identify a given sound in the beginning, middle, or end of the word	In the word <i>sun</i> , is the /s/ at the beginning, middle, or end of the word?
Identify beginning sound	Which word begins with /t/; <i>toad</i> or <i>boat</i> ?
Identify end sound in	Which word ends with /b/; <i>dog</i> or <i>tub</i> ?
Identify a word after a sound separately	What word do you hear when I say /b/... /a/.../t/?
Identify a sound from a word and a new word	Say <i>cup</i> without the /k/.
Identify a modified sound in a word and a new word	Say <i>top</i> ; now change /t/ to /h/.
Identify letter(s) associated with a sound	What letters say /k/?

from which we obtained information for this study (2001). Flahive & Lanza (2004) was For more information, please see the full report on pages 22-24.

## Concepts

Knowledge of basic concepts is an essential component of language development. Basic concepts include terms that describe position, time, equality, quantity, and comparisons. These terms are commonly included in directions at home and especially in educational settings.

Age	Milestones
1 – 2 years	<ul style="list-style-type: none"> <li>Follows simple spatial directions, such as <i>in</i> and <i>on</i></li> <li>Understands <i>another</i></li> <li>Uses simple directional terms, such as <i>up</i> and <i>down</i></li> <li>Uses two or three prepositions, such as <i>on</i>, <i>in</i>, or <i>under</i></li> </ul>
2 – 3 years	<ul style="list-style-type: none"> <li>Distinguishes between <i>in</i> and <i>under</i>, <i>one</i> and <i>many</i></li> <li>Understands number concepts of <i>one</i> and <i>two</i></li> <li>Understands size differences, such as <i>big/little</i></li> <li>Understands <i>in</i>, <i>off</i>, <i>on</i>, <i>under</i>, <i>out of</i>, <i>together</i>, <i>away from</i></li> <li>Begins to understand time concepts of <i>soon</i>, <i>later</i>, <i>wait</i></li> <li>Selects three that are <i>the same</i> from a set of four objects</li> <li>Selects the object that is <i>not the same</i> from four objects with three of them identical</li> <li>Begins to use adjectives for color and size</li> </ul>
3 – 4 years	<ul style="list-style-type: none"> <li>Follows quantity directions <i>empty</i>, <i>a lot</i></li> <li>Follows equality directions <i>same</i>, <i>both</i></li> <li>Understands <i>next to</i>, <i>beside</i>, <i>between</i></li> <li>Identifies colors</li> <li>Matches one-to-one</li> <li>Points to object that is <i>different</i> from others</li> <li>Uses position concepts <i>behind</i>, <i>in front</i>, <i>around</i></li> </ul>
4 – 5 years	<ul style="list-style-type: none"> <li>Understands comparative and superlative adjectives, such as <i>big</i>, <i>bigger</i>, <i>biggest</i></li> <li>Understands time concepts <i>yesterday</i>, <i>today</i>, <i>tomorrow</i>, <i>first</i>, <i>then</i>, <i>next</i>, <i>days of the week</i>, <i>last week</i>, <i>next week</i></li> <li>Understands <i>different</i>, <i>nearest</i>, <i>through</i>, <i>thin</i>, <i>whole</i></li> <li>Identifies positional concepts <i>first</i>, <i>middle</i>, <i>last</i></li> </ul>
5 – 6 years	<ul style="list-style-type: none"> <li>Understands opposite concepts, such as <i>big/little</i>, <i>over/under</i></li> <li>Understands <i>left/right</i></li> <li>Understands number concepts up to 20</li> <li>Answers "How are things the same/different?"</li> <li>Uses adjectives for describing</li> <li>Uses comparative adjectives, such as <i>loud</i>, <i>louder</i></li> <li>Uses <i>yesterday</i> and <i>tomorrow</i></li> <li>Uses adverb concepts <i>backward</i> and <i>forward</i></li> <li>Uses prepositions <i>through</i>, <i>nearest</i>, <i>corner</i>, <i>middle</i></li> <li>Names ordinal numbers, such as <i>first</i>, <i>second</i>, <i>third</i></li> </ul>

We'd like to thank the following sources from which we obtained information for this section: AutismInfo ([www.autisminfo.com/milestones.htm#B](http://www.autisminfo.com/milestones.htm#B)); the Child Development Institute ([www.childdevelopmentinfo.com](http://www.childdevelopmentinfo.com)); Nicolosi, Harryman, & Kresheck (2006); and Touhy, Brown, & Mercer-Moseley (2001). For more information, please see the full References, Websites, & Resources list on pages 22-24.

## Vocabulary

A child's expressive vocabulary grows rapidly from the time of his first word at approximately 12 months, through first grade. Vocabulary increases throughout an individual's lifetime due to education, reading, and life experiences.

Age	Approximate Words in Expressive Vocabulary
12 months	2 to 6 words other than <i>mama</i> and <i>dada</i>
15 months	10
18 months	50
24 months	200-300
30 months	450
36 months (3 years)	1,000
42 months	1,200
48 months (4 years)	1,600
54 months	1,900
60 months (5 years)	2,200-2,500
6 years	2,600-7,000
12 years	50,000

We'd like to thank the following sources from which we obtained information for this section: the Child Development Institute ([www.childdevelopmentinfo.com](http://www.childdevelopmentinfo.com)); Nicolosi, Harryman, & Kresheck (2006); and Owens (1996). For more information, please see the References, Websites, & Resources list on pages 22-24.

## Questions

In language development, a child must be able to ask and answer questions in order to navigate a conversation and to seek and relay information. When assessing a child's ability to ask and answer questions, it is important to separate her content knowledge from her ability to ask or answer questions.

### Answering Questions

Age	Milestones
1 – 2 years	<ul style="list-style-type: none"><li>• Looks in the appropriate place when asked a simple question, such as "Where is Daddy?"</li><li>• Chooses an object with intentionality when asked about a choice of two, such as "Do you want milk or juice?"</li></ul>

# Vocabulary

From the time of his first word at age 1, vocabulary increases throughout childhood, and life experiences.

## Words in Expressive Vocabulary

Other than *mama* and *dada*

Information from which we obtained information for this table is from [www.childdevelopmentinfo.com](http://www.childdevelopmentinfo.com); Owens (1996). For more information, see sources list on pages 22-24.

### Answering Questions, continued

Age	Milestones
1 – 2 years, continued	<ul style="list-style-type: none"> <li>Answers "where" questions, such as "Where's the ball?" by pointing to the pictured item in a book</li> <li>Answers "What's this?" questions about familiar objects or pictures such as <i>cookie</i> or <i>baby</i></li> <li>Answers "yes/no" questions, possibly with a head nod or shake</li> </ul>
2 – 3 years	<ul style="list-style-type: none"> <li>Points to objects when described, such as "What do you wear on your head?"</li> <li>Answers simple <i>wh</i>- questions logically</li> <li>Answers critical thinking questions, such as "What do you do when you are cold?"</li> <li>Answers questions such as "Where...?," "What's that?," "What's ... doing?," "Who is...?"</li> <li>Answers or understands "Can you...?" questions</li> </ul>
3 – 4 years	<ul style="list-style-type: none"> <li>Answers more complex questions logically, such as "who," "why," "where," and "how"</li> <li>Answers "If...what?" questions, such as "If it starts raining, what would you do?"</li> <li>Answers questions about functions of objects, such as "What are spoons for?," "Why do we have shoes?"</li> </ul>
4 years	<ul style="list-style-type: none"> <li>Answers "when" questions</li> <li>Answers "how many" questions (in which the answer does not exceed four)</li> </ul>

# Questions

Children are able to ask and answer questions to seek and relay information. When asking questions, it is important to separate asking and answer questions.

Milestones
<ul style="list-style-type: none"> <li>Responds in place when asked a simple question, such as "Where's the ball?"</li> <li>Shows intentionality when asked about a choice such as "Do you want milk or juice?"</li> </ul>

### Asking Questions

Age	Milestones
1 – 2 years	<ul style="list-style-type: none"> <li>Starts to use question forms, beginning with "What's that?"</li> <li>Uses rising intonation</li> </ul>
2 – 3 years	<ul style="list-style-type: none"> <li>Asks simple ego-centric questions, such as "Where's cookie?"</li> <li>Asks "Where...?," "What...?," "What...doing?" questions</li> </ul>
3 – 4 years	<ul style="list-style-type: none"> <li>Asks one-word "why" questions</li> <li>Uses "what," "where," "when," "how," and "whose" when asking questions</li> <li>Asks "is" questions</li> <li>Inverts auxiliary and subject in <i>wh</i>- questions, such as "Where is dad going?"</li> </ul>

**Asking Questions, continued**

4 years	<ul style="list-style-type: none"> <li>Asks the following types of questions using correct grammatical structure:                      Early Infinitive: "Do you want to...?"                      Future: "Are we going to ...?"                      Modal can/may: "Can you...?"</li> </ul>
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We'd like to thank the following sources from which we obtained information for this section: AutismInfo ([www.autisminfo.com/milestones.htm#C](http://www.autisminfo.com/milestones.htm#C)); Beyond Therapy ([http://centralfltherapy.com/?page\\_id=123](http://centralfltherapy.com/?page_id=123) and [http://centralfltherapy.com/?page\\_id=130](http://centralfltherapy.com/?page_id=130)); the Child Development Institute ([www.childdevelopmentinfo.com](http://www.childdevelopmentinfo.com)); Nicolosi, Haryman, & Kresheck (2006); and Touhy, Brown, & Mercer-Moseley (2001). For more information, please see the full Reference, Websites, & Resources list on pages 22-24.

**Listening**

Listening to something is not the same as hearing it. Listening skills involve a child's ability to attend to and process what he hears. These skills are integral components of a child's speech and language, social, and academic development.

Age	Milestones
Birth – 3 months	<ul style="list-style-type: none"> <li>Discriminates speech from non-speech sounds</li> <li>Startles to loud sounds</li> <li>Quiets or excites in response to novel sounds</li> <li>Recognizes a primary caregiver's voice</li> <li>Smiles or quiets when spoken to</li> <li>Decreases or increases sucking behavior in response to sounds</li> </ul>
3 – 6 months	<ul style="list-style-type: none"> <li>Moves eyes in direction of sounds</li> <li>Discriminates friendly and angry voices</li> <li>Reacts to changes in tone of voice</li> <li>Attends to music and toys that make sounds</li> <li>Listens to a speaker and watches a speaker's face when spoken to</li> </ul>
6 – 12 months	<ul style="list-style-type: none"> <li>Responds to sound when a source is not visible</li> <li>Responds physically to music</li> <li>Stops an activity when name is called</li> <li>Recognizes words for common items</li> <li>Listens with increased interest to new words</li> <li>Begins to respond to simple requests, such as "Sit here"</li> </ul>
1 – 2 years	<ul style="list-style-type: none"> <li>Follows one-step directions with cues</li> <li>Understands simple questions, such as "Where's Daddy?"</li> <li>Points to named pictures in a book</li> <li>Follows directions to find two familiar objects</li> <li>Listens to simple stories</li> </ul>

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Milestones
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sounds angry voices of voice that make sounds atches a speaker's face when spoken to
source is not visible sic re is called mon items rest to new words le requests, such as "Sit here"
s with cues ons, such as "Where's Daddy?" n a book yo familiar objects

Age	Milestones
2 – 3 years	<ul style="list-style-type: none"> <li>• Responds to commands involving body parts, such as "Show me your foot"</li> <li>• Follows two-step directions, such as "Get your cup and bring it to me"</li> <li>• Follows directions that include action + adverb or action + adjective, such as "Walk slowly" or "Give me the red ball"</li> <li>• Demonstrates understanding of several verbs by selecting corresponding pictures</li> <li>• Recognizes family labels such as <i>baby</i>, <i>grandpa</i></li> </ul>
3 – 4 years	<ul style="list-style-type: none"> <li>• Attends to name being called from another room</li> <li>• Understands simple <i>wh-</i> questions</li> <li>• Understands most simple questions pertaining to her activities and environment</li> <li>• Improves listening skills and begins to learn from listening</li> </ul>
4 – 5 years	<ul style="list-style-type: none"> <li>• Attends to a short story and answers simple questions about it</li> <li>• Hears and understands most of what is said at home and in school</li> <li>• Repeats four digits when they are given slowly</li> <li>• Readily follows simple commands involving remote objects</li> </ul>
5 – 6 years	<ul style="list-style-type: none"> <li>• Repeats sentences up to nine words in length</li> <li>• Follows three-step directions</li> <li>• Responds correctly to more types of sentences but may still be confused at times by more complex sentences</li> </ul>

We'd like to thank the following sources from which we obtained information for this section: The American Speech-Language-Hearing Association ([www.asha.org/public/speech/development/chart.htm](http://www.asha.org/public/speech/development/chart.htm)); the Child Development Institute ([www.childdevelopmentinfo.com](http://www.childdevelopmentinfo.com)); and Wilkes (1999). For more information, please see the full References, Websites, & Resources list on pages 22-24.

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## Red Flags in Communication Development

Parents often ask about warning signs of speech and/or language problems. This list provides some warning signs that parents can refer to when observing their children's speech and language skills.

At age	Red Flags
6 months	<ul style="list-style-type: none"> <li>• does not laugh and squeal</li> <li>• does not look toward new sounds</li> </ul>
9 months	<ul style="list-style-type: none"> <li>• has limited or no babbling</li> <li>• does not indicate when happy or upset</li> </ul>
12 months	<ul style="list-style-type: none"> <li>• does not point to objects</li> <li>• does not use gestures such as waving or shaking head</li> </ul>
15 months	<ul style="list-style-type: none"> <li>• has not used first word</li> <li>• does not respond to "no" and "bye-bye"</li> </ul>
18 months	<ul style="list-style-type: none"> <li>• does not use at least six to ten words consistently</li> <li>• does not hear well or discriminate between sounds</li> </ul>
20 months	<ul style="list-style-type: none"> <li>• does not use at least six consonant sounds</li> <li>• does not follow simple directions</li> </ul>
24 months	<ul style="list-style-type: none"> <li>• has a vocabulary of less than 50 words</li> <li>• has decreased interest in social interactions</li> </ul>
36 months	<ul style="list-style-type: none"> <li>• strangers have difficulty understanding what the child is saying</li> <li>• does not use simple sentences</li> </ul>

### Other Concerns

- Is a very picky eater (willing to eat only four or five foods, gags on certain textures)
- Has difficulty with transitions
- Uses repetitive and/or perseverative behaviors
- Shows no interest in communicating
- Drools excessively
- Stutters more consistently and for longer than six months

We'd like to thank the following sources from which we obtained information for this section: BabyCenter ([http://www.babycenter.com/0\\_warning-signs-of-a-language-communication-developmental-dela\\_6734.bc](http://www.babycenter.com/0_warning-signs-of-a-language-communication-developmental-dela_6734.bc)); Braintree Rehabilitation Hospital ([www.braintreerehabhospital.com/pdf/speech-and-language-milestones.pdf](http://www.braintreerehabhospital.com/pdf/speech-and-language-milestones.pdf)); and KidTalk, Inc. ([www.kidtalk.org/milestones.html](http://www.kidtalk.org/milestones.html)). For more information, please see the full References, Websites, & Resources list on pages 22-24.