From:
 Ashley Rose Carter

 To:
 CRAY Jon * PUC

Subject: [SECURE] Follow Up from Tuesday

Date: Thursday, January 25, 2024 4:15:05 PM

Attachments: New Milestones.pdf

You don't often get email from ashleyrose@parkwoodclinic.com. Learn why this is important

Hi Jon,

It was nice speaking with you on Tuesday. Thanks for your patience with my email. I have attached a PDF of speech, language and pragmatic milestones which illustrate that children begin combining words at 2 years of age and initiating conversational exchanges (a social communication skill) at 2.5 years of age.

Both of these are prerequisites to being able to use a telecommunication device.

As I have shared, Parkwood's mission is to reduce barriers for children to access high quality speech, language and feeding services.

We believe in a period of dynamic assessment in the early intervention (birth to five time frame). Parkwood is a data based clinic. We write objectives that incorporate total communication, utilizing every tool available for children to build their speech and language skills. Total communication incorporates gesture, word approximations and AAC in it's approach and it is a valuable intervention for children to receive instruction to help build their functional communication skills, safety and awareness, and help improve their overall quality of life.

I look forward to future discussions and collaborations with you and the TDAP team.

Warmly, Ashley

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Communication Milestones

Proficiency in each domain is expected at the age at which it is written. Skills should emerge prior to the expected age.

Age	Cognition and Receptive Language	Expressive Language	Phonology, Articulation and Motor Speech Skills	Social-Emotional and Play	Literacy and Phonological Awareness
3 months	Cognition Begins initiating goal- oriented behavior Listening Discriminates speech from non-speech sounds Startles to loud noises Smiles when spoken to	Early Expression Begins to differentiate cries (e.g. hungry, upset, uncomfortable) Begins to coo to show pleasure	Motor Foundations/Feeding Drinks from bottle or breast Sneezes, coughs	Begins to develop a social smile	Early Reading & Writing Shares reference on pages of book when engaged by caregiver
6 months	Cognition Works to reach a toy Develops object permanence Returns to activity after Interruption Listening Orients to sounds with eyes Reacts to changes in tone of voice Starts responding to name	Early Expression Has differentiated cries Begins to babble Responds to sounds by making sounds Takes turns with caregivers while making sounds	Motor Foundations/Feeding Sitting up (4-6 months) Mouths and gums solid foods Open mouth when spoon is presented Engages in vocal play to increase control of oral mechanisms Eats purees and meltible solids Phoneme Production Begins marginal babbling with CV and VC sequences with native sounds (e.g. "puh," "mi," and "da") Produces "raspberries" as precursors to bilabials Typically emerging phonemes are: By 8 mo: d, t, k, m, h By 9 mo: d, m, n, h, w (t, k decrease in use until later mos) By 10 mos: b, d, t, m, n, h By 11 mos: b, d, t, m, n, h	Play/Interaction Babbles back and forth with caregiver	Early Reading & Writing Engages in routines involving books

12 months				
Cognition and Receptive	E-massize I amores	Phonology, Articulation and	Social-Emotional and	Literacy and
Language	Expressive Language	Motor Speech Skills	Play	Phonological Awareness
Cognition	Vocabulary & Concepts	Motor Foundations & Feeding	Play/Interaction	Early Reading & Writing
Imitates simple actions	Says first words, should have	Crawling (8-11 months)	Plays nursery games	Looks at pictures in
Looks for objects removed	between two and six words by this	Beginning to walk	Stacks rings on peg	books with adults
from line of vision	age	Drinks from a cup	Cooperates with	Listens to short
Predicts outcomes from events	Points and vocalizes to attain	Begins self-feeding	familiar routines	segments of text read
Puts objects into containers	objects	Eats lumpy, mashed food, soft	Initiates affection	aloud
Transfers objects from one		cookies		Holds crayon; imitates
hand to another		Chews using rotary jaw action	Pragmatic Language	scribbling
Recognizes familiar people,		(emerging)	Initiates and maintains	
objects and pets			2-way communication	
		Phoneme Production	Requests and calls	
Listening		Engages in reduplicated (e.g.	attention to objects by	
Responds to sound when		"mimi,", "bababa," and "upup")	pointing or vocalizing	
source		and variegated babbling by	Gains attention by	
is not visible		combining different CV syllables	pointing or vocalizing	
Responds to name by stopping		(e.g. bamega)		
		Imitates new sounds and words		
Auditory Processing		Uses adult-like intonation		
Understands 30-50 words-		Emerging sound inventory includes		
common names for objects/		3-5 lax vowels and 5-7		
people		Consonants (b, d, g, n, m, h, w,		
Begins to respond to simple,		are most used)		
one-step requests (e.g. sit here)		·		

0;0-1;0 ORAL
MECHANISM
Infant cf. adults

Oral space is smaller. Lower jaw smaller

and retracted. Sucking pads are present, teeth emerge. Tongue large compared to size of oral cavity and therefore has more restricted movement. (Moves with jaw) Nose breather. Epiglottis and soft palate are in approximation as a protective mechanism. Newborns breathe/swallow at same time. Larynx is higher in newborn. Eustachian tube lies in horizontal position. (More vertical in adults)

18 months				
Cognition and Receptive Language	Expressive Language	Phonology, Articulation and Motor Speech Skills	Social-Emotional and Play	Literacy and Phonological Awareness
Cognition Imitates adult activities Auditory Processing Understands 50-100 words Points to objects in pictures (show me doggie) Points to major body parts when asked Follows one-step directions for simple actions Answers yes/no questions inconsistently with gestures	Vocabulary & Concepts Says ten names for common objects, actions, or people Nods "yes" shakes "no" inconsistently Vocalizes no/yeah Inconsistently Makes animal sounds Refers to self by name Uses words more often Syntax & Sentence Structure Asks for names of things with one word questions (e.g. "that?") Use two word combinations ("more juice" "bye mommy") Tries to tell experiences using real and nonsense words	Motor Foundations & Feeding Walking as a primary means of transportation (12-15 months) Grabs spoon, bring to mouth, sometimes turning over en route Drinks through a straw Holds cup with two hands, drinks with 4 or 5 consecutive swallows Stops using a bottle Phoneme Production Tries to imitate others Uses vowel sounds accurately Has sounds m, p, n, w, t and d in speech Duplicates syllables (e.g. mama, wawa) Increases vocalizing as activity increases	Play & Interaction Figures out ways to overcome some obstacles (e.g. reaching high objects, opening doors) Engages in solitary or onlooker pretend play (e.g. doll, cars) Plays simple games Uses simple conventional object in appropriate manner (e.g. hits a peg with a hammer) Pragmatic Language Takes turns in communication games using words and gestures Uses words and gestures Uses words and gestures to express a variety of functions, including greeting, commenting, rejecting, requesting objects, requesting actions, gaining attention, and claiming possession Reacts to emotions of others	Early Reading & Writing Points to objects in picture book response to "Show me" or "Where is the?" Names pictures or makes sound effects in interactions with familiar books Scribbles spontaneously with writing utensil

24 months (2 years)				
Cognition and Receptive Language	Expressive Language	Phonology, Articulation and Motor Speech Skills	Social-Emotional and Play	Literacy and Phonological Awareness
Cognition and Receptive Language Cognition Begins to develop internal problem-solving schema Auditory Processing Understands the meaning of 500- 900 words Locates an object mentioned Recognizes words even when referent is not present Follows many one-step directions Understands simple WH- and Yes/No questions (e.g. "where's Mommy?) Concepts Understands prepositional and descriptive terms (in, on, off, under, big and little)	Vocabulary & Concepts Uses 200 words Imitates new words Syntax & Sentence Structure Combines 2 and 3 words Asks routine questions (e.g. "what's that?), uses intonation to indicate question Uses present progressive -ing morpheme with no auxiliary (e.g. "Mommy drinking) Uses "me", "you" and "mine" correctly most of the time	3. 1	Play & Interaction Begins to use conventional objects in symbolic play (giving doll a bottle) Engages in parallel play Talks to self in play Follows rules and responds to limits Acts on toys as well as on self Pragmatic Language Begins to reason about feelings and connect them to behavior Conveys emotions in play Combines two ideas in play Indicates wet pants Repeats actions that make someone else laugh Pairs gestures with words to clarify wants and needs	·
		50-75% intelligible to familiar people 50% intelligible to strangers		

30 months (2 ½ years	s)			
Cognition and	Expressive Language	Phonology, Articulation	Social-Emotional and Play	Literacy and
Receptive Language	- 0	and Motor Speech Skills	•	Phonological Awareness
Cognition	Vocabulary & Concepts	Motor Foundations &	Play & Interaction	Early Reading & Writing
Matches colors and shapes	Uses 200-300 words	Feeding	Uses speech to be social	Likes to listen to stories/books
Matches objects to pictures	Names common verbs	Self-feeding continues to	Continues with parallel play	for longer periods of time
Does simple counting		improve, coordination of	Begins engaging in symbolic play,	Holds a book correctly
Sorts like objects in	Syntax & Sentence Structure	spoon increases	but needs to build on adult's	Begins to recognize logos
containers	Uses 2-3 word sentences	Cup drinking improves, limited	ideas	Develops awareness that print
	Uses keywords to convey need	spillage		represents words
Auditory Processing	Uses personal pronouns (me,	Has precise up/down tongue	Pragmatic Language	Increased control of writing
Follows two-step directions	I, you, mine)	movement	Able to monitor own speech;	tools
(clap then wave)	Uses descriptive such as "in"		repair spontaneously, adjust	Imitates drawing of vertical
Understands instructions	and "on", "big" and "little"	Phoneme Production	speech to different listeners,	lines
involving pronouns (I vs.	Recites portions of nursery	Consonants produced should	practice sounds, words and	
you vs. me/my)	rhymes to other familiar	include: p, b, m, n, w, h, k, g, t,	sentences	
Answers who, what and	songs	d, "ng"	Able to control intonation to	
why		All vowels should be produced	produce rising contour	
	Word Retrieval	accurately	(question intonation), high	
Concepts	Confrontation Naming:		rising contour, and falling, rising	
Identifies many pictures in	Should be able to label known	Intelligibility	contour	
a book	pictures in rapid succession	Speech is intelligible to strangers	Uses verbal language and his/her	
Identifies objects by use		for 50-75% of the time	primary means of expression	
(e.g. Which on do we			Has a conversation with 2-3	
drive in?)		Phonological Processes	turns	
Understands concept of		The following processes are	Talks about immediate	
one		developmentally expected:	experiences ("Sophia feed	
Understands common		Consonant cluster	baby")	
verbs		reduction (grape→ gape)		
Understands boy/girl		 Stopping (sock→ tock) 		
Understands pronouns: I,		 Fronting (cape→ tape) 		
you, me, mine		Syllable Deletion		
Managa		(banana→ nana)		
Memory		(Sairaira 7 Iraira)		
Immediate Memory: 2 units				
				<u> </u>

36 months (3 Years) Cognition and Receptive	Expressive Language	Phonology, Articulation and	Social-Emotional and Play	Literacy and Phonological
Language		Motor Speech Skills		Awareness
Cognition	Vocabulary & Concepts	Motor Foundations & Feeding	Play & Interaction	Early Reading & Writing
Knows his/her last name, sex,	Exhibits an expanding	Bites through a variety of food	Continues with parallel play with	Likes to listen to stories/books
and name of street	vocabulary of up to 900	thicknesses	peers	for longer periods of time
Stays with one activity for eight	words	Self-feeds with spoon and fork	Engages in symbolic play; ties two	Pretends to read words on the
to nine minutes	Uses words to relate	with little spillage	or more ideas together logically	page and to write notes to
Sings songs	observations, ideas, and	Holds a small, open cup in one	in play; organizes props and	parents
Arranges items in patterns, early	relationships	hand and drinks with little spillage	plays imaginatively	Imitates drawing of horizontal
categories	Uses concept words:	Chews with lips closed	Begins associative group play with	line and circle
Sorts objects into groups based	same, different, empty,	Chews using stable rotary jaw	peers	Draws two or more lines to
on one attribute (color, size,	full, clean, dirty, night,	action	Plays spatial and motor games	imitate a cross
shape, etc)	day	Phoneme Production	with rules (e.g. taking turns on	Begins to show a difference
Auditory Processing	Uses pronouns: he, she,	Early consonants should all be	the slide)	between writing and drawing
Understands prepositional	they, we, you, your, yours	produced accurately	Uses pretend play with logical	
phrases (put block under the		Consonants produced now	ideas to recover from distress	Phonological Awareness
chair)	Syntax & Sentence	includes "f", "L", "y" (like yell);		Begins to understand the
Follows three-step directions	Structure	"s" should be emerging and	Pragmatic Language	concept of syllables
(get your blue shoes from the	Combines three to four	should not be lateral	Enjoys speaking without	Begins to segment words into
dining room)	words into sentences	Consonant clusters are expected	avoidance or embarrassment	syllables and blend syllables
Understands plurals (cars),	Uses conjunctions	word final, initial clusters with	Uses language as a tool	into words
pronouns (you), and	(because, and, or) to	/w/, /s/ only (often reduced)	Takes turns in conversation	Begins to identify words that
possessives (boy's)	join two ideas	Syllable shapes: CV, VC, CVC,	Maintains topic	rhyme
Understands questions of	Uses the following	CVCV, CVCVCV, CCVC,	Conveys emotions in prEetend	
"whose", "who", "why", and	morphemes:	CVCC,	play	
"how many"	 regular plural -s 	CCVCC, CCVCCC, CCCCVC	and communication showing	
Listens to two to four-line	present	3-syllable DDKS = $1.36/sec$	closeness, pleasure and	
story and answers concrete	progressive -ing	T	excitement, assertive curiosity,	
WH-questions	with auxiliary	Intelligibility	fear, anger, and limit-setting	
Concents	 semi-auxiliaries 	Produces speech which is 75-80% intelligible		
Concepts Understands concepts: one,	(gotta, gonna)	intelligible		
many, same, different,	 regular past tense 	Maximum phonation time		
empty, full, clean, dirty,	-ed	2;6 - 2;11 = 5.55 sec (Robbins &		
night, day	 possessive -s 			
Understands family labels (e.g.	Inflects verb "to be" (e.g.	Klee, 1987)		
baby, grandpa)	am, are, was)	Phonological Processes		
Understands pronouns: he,	Retells a story or relates	The following processes should no		
she, they, we, you, your,	an idea to someone	longer be seen:		
yours	using short simple	Weak Syllable Deletion Fronting		
Identifies colors and basic	sentences	Final Consonant Deletion (e.g. dad		
shapes (circle, triangle, square)	Ask many simple	da)		
· · ·	questions using WH-	,		

	words, inversion of	Diminutization (adding "i" to end	
Memory	auxiliary emerging (e.g.	of word like "dog" "doggy")	
Immediate memory: three	"What is she doing?")	Assimilation (e.g. jam mam)	
digits	9 /	Reduplication (e.g. bottle baba)	
Working memory: two units	Word Retrieval	Prevocalic Voicing (e.g. sun zun)	
emerging	Able to produce basic		
	antonyms and synonyms		
	Able to complete closed		
	and open-ended		
	sentences (by 3 1/2 years)		

ORAL MECHANISM	Oral space enlarges.			
During first 3 years of life:	Growth of lower jaw + other bony structures.			
,	Disappearance of sucking pads.			
	Increased muscle tone and "skilled" tongue movement.			
	(Tongue movement become dissociated from jaw movement. Important for feeding & speech)			
	Lowering & more sophisticated movement of larynx. Separation of epiglottis & soft palate.			

Cognition and Receptive Language	Expressive Language	Phonology, Articulation and Motor Speech Skills	Social-Emotional and Play	Literacy and Phonological Awareness
Cognition	Vocabulary & Concepts	Phoneme Production	Play & Interaction	Early Reading & Writing
Applies systematic trial-and-error problem solving to tasks Stays with one activity for 11-12 minutes Helps plan activities Auditory Processing Comprehends complex sentences Follows four step directions (e.g. Get your blue shoes and jacket from the dining room) Understands "what if" questions Understands simple questions pertaining to activities and environment Begins to learn from listening Listens to five- to seven-line story and answers concrete and abstract wh- questions Concepts Understand time concepts: early in the morning, next month, and noon Understands spatial concepts: in front, behind,far,and near Comprehends opposite concepts Understands first and third person, personal and possessive pronouns Memory Immediate Memory: four units	Uses many more words than can be counted (nearly 1500) Names colors and shapes Delivers a message Adds more complex pronouns: us, hers, his, theirs, him, her, them, myself, yourself, etc. Retells simple stories with full sentences Syntax & Sentence Structure Uses a minimum of 5 to 6 word sentences Asks how, why, where, and when questions with proper auxiliary inversion Adds the following morphemes: irregular past tense regular third-person-singular, present tense (e.g. he drinks) articles (a, the) contractible auxiliary (e.g. the boy's talking) uncontractible copula (e.g. it is big) uncontractible auxiliary (e.g. he is swimming) negation (e.g. he is not there) past tense "to be" (e.g. she was eating) irregular plurals are emerging Uses compound sentences combined by "and," "but," "or," "so," and "because" Word Retrieval Able to perform convergent and divergent	Early consonants should all be produced accurately Says "y" and "v" in words May still have trouble with s, sh, ch, j, th, z, l, and r sounds (should be emerging) "w" may be substituted for "r" Fricatives s, z, "sh" and "zh" (as in measure) may be distorted, but not produced interdentally or laterally Consonant Clusters mastered: tw-, kw-, st-, -mp, -mpt, - mps, -nk, -lp, -lt, -rm, -rt, -rk, -pt, -ks, -ft 3-syllable DDKs = 1.75/sec Max Phonation time = 7.79s Intelligibility Speech is understood by all: 100% intelligible Phonological Processes As well as processes listed in earlier ages, the following processes should no longer be present: - Cluster reduction - Epenthesis - Gliding - Stopping s, z, f - Final Consonant devoicing - Deaffrication	Begins to establish more complex dramatic play scenes with words (e.g. "Let's pretend", "You be the and I'll be the") Resolves social conflicts with words Demands more realism in play Talks on the telephone Pragmatic Language Understands simple conversation rules (e.g. turn taking, topic maintenance, eye contact) Repairs communicative breakdowns with peers Rarely repeats or hesitates Speaks without avoidance or embarrassment Modifies speech to age of listener (baby vs. adult)	Begins to pay attention to specific print, such as the first letter of name Recognizes logos and other environmental print and understands that print carries a message Talks about characters in a book Retells simple stories Likes to "read" to themselves and others Produces some letter-like forms in scribbles that resemble letters Phonological Awareness Understanding of rhyme continues to develop, able to produce rhyming words Participates in rhyming games Begins to isolate sounds in words (e.g. at beginning, middle or end of the word) Identifies some letters and make letter/sound matches

questions

Working Memory: two units Sentence Memory: four to seven

words

Able to perform convergent and divergent naming for concrete categories
Able to answer closed and open ended

5	years
5	years

Cognition and Receptive Language Cognition

States birthday and address Stays with one activity for 15-20 minutes Uses complicated reasoning Demands increasingly detailed explanation until an adult is able to explain

Auditory Processing

Listens to short passage of age appropriate literature and answers concrete and abstract Wh- questions
Comprehends ALL questions types in context
Follows five step directions at home (e.g. Get your blue shoes and green jacket from the dining room) and at school (e.g. Take out two sheets of paper, write your name at the top.)

Concepts

Classifies objects by their form, color, use, or composition
Knows concepts such as more and less

Memory

words

Immediate Memory: 4 units Working Memory: 2 to 3 units Sentence Memory: 7 to 9

Expressive Language

Vocabulary & Concepts

Describes person, place, or thing using attribute
Names a time of day associated with an activity
Recites days of the week and names coins (i.e. penny, dime)
Relates elaborate stories

Syntax & Sentence Structure

Uses a minimum of six to eight word sentences
Uses grammatically correct sentences and complex verbs Uses all grammatical morphemes correctly and consistently
Produces short passive sentences with irregular past tense verbs
Develops event relation sequences in sentences (e.g. and, because, but, when, while, after, before, might)
Demonstrates increased variety of

Demonstrates knowledge of rules

for different forms of plurals,

Word Retrieval

past tense

sentence types

Performs convergent and divergent naming for abstract categories Provides most salient feature for objects Provides verbal descriptions of objects (e.g. shape, color, texture, function, category, location, etc.) Uses appropriate vocabulary in narrative construction without prolonged hesitation

Phoneme Production

All phonemes should be produced accurately in conversation, with the possible exception of "r" or "th"

Phonology, Articulation

and Motor Speech Skills

Consonant clusters mastered: sp-, sk-, sn-, pl-, bl-, kl-, gl-, fl-, dr-, pr-, br-, tr-, kr-, gr-, frand -lb, -lf, -rd, -rf, -rn

3-syllable DDKs = 1.33/sec

Maximum phonation time = 9.22s

Intelligibility

Expresses self using speech that is understood by all

Phonological Processes

All phonological processes should be eliminated in speech, including:

- gliding of /r/ to /w/
- stopping of "v", "th"
- fronting of "sh", "ch" and "j"
- depalatization (e.g. dish dit)
- alveolarization (e.g. chew tew)
- cluster reduction with /s/

Social-Emotional and Play

Continues to evolve more

Play & Interaction

complex and real play routines Resolves social conflicts with words Uses words to invite others to play Plays competitive exercise games Engages in cooperative play

Begins to use word plays

Pragmatic Language

Has good control of the elements of conversation. announces topic shifts Uses direct requests with justification (e.g. stop that, you're hurting me) Takes more time communicating with unfamiliar people Asks meanings of words Speaks of imaginary conditions, such as "What if ..." or "I hope..." Expresses feelings verbally Shows interest in things being funny

Reading & Narrative Skills

Literacy and Phonological Awareness

Understands story sequence
Understands the function and
purpose of print
Understands print is read
from left to right and top to
bottom
Retells more complex stories

Story Grammar Marker:

Should be able to tell Descriptive sequence, Action sequence, Reaction sequence

Writing

Identifies and writes uppercase and lowercase letters Uses more letter-like forms than scribbles Begins to write letters and familiar words

Phonological Awareness

Able to isolate sounds at the beginning, middle and end of words

Begins manipulating sounds to blend them together (e.g. /b/ + /a/ + /t/ = /bat/) and segment words (e.g. /kat/ = /k/ + /a/ + /t/)

Ability to delete sounds from words (e.g. say cup without the /k/) is emerging

Sound to letter matching is emerging

6 to 7 years						
Cognition and Receptive Language	Expressive Language	Phonology, Articulation and Motor Speech Skills	Social-Emotional and Play	Literacy and Phonological Awareness		
Cognition Listens attentively for long periods of time Makes logical relationships and solves problems verbally Understands reality vs. fantasy Auditory Processing Follows six to seven step directions consistently in multiple modalities (e.g. Get your textbook and pencil case from your backpack, bring them to your desk and open your book to Chapter 10) Answers all types of questions accurately (e.g. wh- questions, yes/no, did, do, can, is) Listens to short chapter of age appropriate literature and answers all types of questions regarding content Memory Immediate Memory: five units Working Memory: nine to ten words	Vocabulary & Concepts Average expressive vocabulary is 5000 words Uses mature vocabulary (e.g. excited, frightening, frustrated) Reorganizes lexical knowledge into semantic network Syntax & Sentence Structure Uses passive sentences (e.g. The bus was hit by the car) Corrects their own sentences Uses mature expressions Rarely makes grammatical errors Uses negation (can't, don't) regularly and accurately	Phoneme Production Speech is error- free and adult like Consonant clusters mastered: sm-, sw-, skw- and -lk, - rb, -rg, rth, -rdz, -rst, -rt, - nt, -nd, -nth Phonological Processes All phonological processes should be eliminated from conversational speech	Pragmatic Language Repeats with elaboration for repair Begins to use different topics for different genders Narratives are true "stories" with central focus, high point, and resolution Identify and describe the elements of plot, setting, and character(s) in a story, as well as beginning, middle and ending of the story Predict what will happen next in a narrative based on context, keywords	Reading Identifies an increasing number of words by sight, including common irregular words Begins to decode new words independently Reads and retells familiar stories Sounds out and represents major sounds in words when trying to spell Identifies and uses regular and irregular plurals and past tense Story Grammar Marker: Should be able to tell Abbreviated Episode Reading Fluency 1st Grade: 40 to 60 correct words per minute Writing Uses some punctuation, capitalization Prints legibly and spaces words, letters, sentences appropriately Writes brief narratives describing an experience (fictional or autobiographical) Writes brief expository description of a real object, person, place or event using sensory details and descriptive words Distinguishes between declarative, exclamatory and interrogative sentences in writing Phonological Awareness Awareness that words are made up of sounds is fully developed Segments words into sounds, blend sounds together, and delete/change sounds in words Able to match sounds to letters accurately, including all consonant blends, short- and long-vowel combinations		

7 to 8	years
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Cognition and Receptive Language	Expressive Language	Phonology, Articulation and Motor Speech Skills	Social-Emotional and Play	Literacy and Phonological Awareness
Auditory Processing Follows seven- to ten-step directions in multiple modalities (e.g. Get a book about history from the bottom shelf of the white bookshelf, bring it back to your desk, take out a piece of paper, write your name at the top and write down the title of the book.) Understands multiple meanings of words New vocabulary is learned in school that was not previously encountered in conversation Understanding of figurative language increases, recognizes non-literal meanings Comprehends abstract verbs (e.g. tell and promise) Listens to chapter of age appropriate literature and answers all types of questions regarding content Compare and contrast new and old information Memory Immediate Memory: five to six units Working Memory: four units Sentence Memory: 11 to 12 words	Vocabulary & Concepts Word definitions include synonyms and categories Increased understanding allows for use of figurative language (e.g. figures of speech, idioms, metaphors, hyperboles, etc) Syntax & Sentence Structure Literate language syntax needed for academics develops Some errors in writing/ speaking persist Uses full passives Uses —er suffix to mark initiator of an action (e.g. teacher) Pronouns used anaphorically to refer to nouns previously named	Phoneme Production Speech is error-free and adult like in conversation and in all environments	Pragmatic Language Produces all elements of story grammar; stories contain complete episodes with internal goals, motivations, and reactions of characters Language is used to establish and maintain social status Increased perspective- taking allows for more successful persuasion Understands jokes and riddles based on sound similarities	Reading Decodes regular multisyllabic words Uses knowledge of suffixes and prefixes to determine word meanings Distinguishes main idea and details from expository text Determines underlying theme or author's message in text Story Grammar Marker: Should be able to tell Complete Episode Reading Fluency 2nd grade: 80 to 100 correct wpm 3rd grade: 100 to 120 correct wpm Writing Writes with topic sentence and supporting facts Expected to independently write several paragraphs Writes legibly with correct spacing and punctuation Revises drafts using a outline that explains the expected content and format Writes narratives, expositions, letters, invitations, informational pieces

9 to 12	years

Cognition and Receptive Language	Expressive Language	Phonology, Articulation and Motor Speech Skills	Social-Emotional and Play	Literacy and Phonological Awareness
Auditory Processing Comprehends familial terms from geneology Understands psychological states described with physical terms (e.g. cold = uninterested, blue=sad) Vocabulary used in school texts is more abstract and specific than that used in conversation Figurative language and most common idioms are understood Memory Immediate Memory: six to seven units Working Memory: five units	Vocabulary & Concepts Creates abstract definitions Can explain relationships between meanings of multiplemeaning words Syntax & Sentence Structure Syntax used in school texts is more complex than that used in oral language Use of word order variations increases in writing Begins using adverbial conjuncts (e.g. however, moreover, therefore) Public Speaking Strategies Prepare and deliver short oral presentations regarding a specific topic using effective pitch, rate, modulation and volume for the audience Oral presentation categories to include: • narrative presentations • informational presentations • responses to literature • persuasive presentations • problem/solution presentations	Phoneme Production Speech is error-free and adult like	Pragmatic Language Stories include complex episodes Abstract topics are sustained in conversation	Reading Increased focus on informational material in reading Draws inferences and generalizations about text and support them with evidence Identifies all story elements, contrast action and motives of characters Distinguishes between facts, supported inferences and opinions in expository text Begins to use outlines, notes, summaries to clarify understanding of texts Story Grammar Marker: Should be able to tell Complex Episode Reading Fluency 4th Grade: 120 to 150 correct wpm 5th Grade: 150 to 180 correct wpm 6th Grade: 180+ correct wpm Writing Writing Writes multiple paragraph narrative and expository compositions of approximately 500-700 words Uses organizational features of printed text (e.g. bibliographies, citations) to locate information Uses a thesaurus and dictionary to determine appropriate words Independently edits and revises manuscripts to make clearer and more concise Capitalization, punctuation, spelling, spacing and sentence structure should be accurate in writing with revisions Begins to participate in notetaking, expected to maintain organization and extract most salient information

13 to 18	years
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Cognition and Receptive Language	Expressive Language	Phonology, Articulation and Motor Speech Skills	Social-Emotional and Play	Literacy and Phonological Awareness
Auditory Processing Knows approximately 80,000 word meanings Comprehends all types of embedding Comprehends complex language in academic lectures Abstracts main ideas and discourse structures from lectures Memory Immediate Memory: seven units Working Memory: five to six units	Vocabulary & Concepts Has expressive vocabulary of approximately 30,000 words by end of high school Syntax & Sentence Structure Develops literate complexity when speaking Uses more clauses per sentence in speech	Phoneme Production Speech is error-free and adult like Uses vowel-shifting rules (divine, divinity) accurately Uses stress contrasts to show different meanings (e.g. con.vert versus convert) MPT (mean phonation time): Adult male: 25-35 sec Adult female: 15-25 sec	Pragmatic Language Varies language effectively for varied purposes Uses slang with peers May overuse certain phrases Has fewer mazes and tangles Perfects ability to speak formally in public Persists in overcoming adversity Uses sarcasm and double meanings Makes deliberate use of metaphors Knows partner's perspective and knowledge differ from own	Reading Reads many different types of literature and written materials, including classic and contemporary literature, newspapers, reference texts, online information Analyzes figurative language in text to determine meaning Compares and contrasts the features and elements of consumer materials to gain meaning from documents Critiques written text based on composition, format, logic, coherence, internal consistency Compares and contrasts different texts that present similar ideas Performs high level analysis of literature Story Grammar Marker: Should be able to tell Interactive Episodes Reading Fluency 7th Grade and above: 180+ wpm Writing Establishes coherent thesis that conveys a clear and distinctive perspective on subject Uses precise language, action verbs, sensory details, appropriate modifiers and active rather than passive voice Revises to improve logic and coherence of text as well as spelling, syntax, punctuation, formatting, etc. Written texts of all types should be approximately 1500 words in length

SOURCES and **HELPFUL** sites

ASHA.org

https://www.talkpeninsula.com/speech-and-language/

http://firstyears.org/miles/chart.htm

Random websites to look at:

http://www.ati-online.com/pdfs/profdevelopment/pre-k/galileog3 alignment.pdf

https://www.speech-language-therapy.com/index.php?option=com_content&view=article&id=33:brown&catid=2:uncategorised&Itemid=117

https://www.speech-language-therapy.com/index.php?option=com_content&view=article&id=34:ages&catid=11:admin&Itemid=117

Intelligibility

https://www.speech-language-therapy.com/index.php?option=com_content&view=article&id=29:admin&catid=11:admin&Itemid=119

https://www.speechpathology.com/files/event/07800/07888/splanguageprocessingtherapyp2.pdf

https://www.speechpathology.com/files/event/07800/07888/homeprogramforauditorytraining-doc1.pdf

http://www.smalltalkpeds.com/developmental-norms/

CAPD vs. Auditory Processing:

https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&cad=rja&uact=8&ved=0ahUKEwiZzqTZrb3ZAhUVS2MKHY9wAZEQFgg2MAE&url=https %3A%2F%2Fwww.asha.org%2Fevents%2Fconvention%2Fhandouts%2F2010%2F0423-geffner-donna%2F&usg=AOvVaw0szLf5rvoTysFW4uRVvD8o

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