Supplemental Material S4. Structure and definitions within the intervention taxonomy.

		Aspect I
	Note: Categorie peer review]	Modality/Domain es in Aspect I are the same as for Aspect I in the assessment taxonomy [Removed for
Modality	Spoken Language Written Language	Language exchanged verbally, or via an alternative in situations where peers would typically use verbal communication (includes pre-linguistic communication). Examples: • Intervention using a single mode of spoken communication (single-modality), e.g., Speechonly or AUSLAN. • Intervention using multiple modes of spoken communication (multi-modal), e.g., Key-word sign or Aided language stimulation. (American Speech-Language-Hearing Association, n.d.; Beukelman & Mirenda, 2013b). Language exchanged through text (print) or via an alternative in situations where peers would typically be reading or writing. Examples:
		 Intervention targeting written communication via a single mode (single-modality), e.g., Textonly or Braille. Intervention targeting written communication via multiple modes (multi-modal), e.g., Text with symbol support. (American Speech-Language-Hearing Association, n.d.; Beukelman & Mirenda, 2013b).
Domains	Semantics	 Understanding and expression of words and word meanings (e.g., vocabulary, word retrieval, lexical meaning). Examples: A child learns to define the meanings of, and use, a variety of adjective words for improved narrative retelling. A child learns to identify the meaning of 'exam instruction words' (e.g., analyze, contrast, explain, define, summarize etc.) for improved comprehension of written instructions in class. (American Speech-Language-Hearing Association, n.d.; Beukelman & Mirenda, 2013b; Boyle
	Morphosyntax	 et al., 2007). Understanding and expression of different word forms and the order and combination of words in sentences. Examples: A child explicitly learns and practices production of past tense verb forms whilst retelling an event. A child practices producing complex sentences with conjunctions (e.g., because, if, when). (American Speech-Language-Hearing Association, n.d.; Beukelman & Mirenda, 2013b; Boyle et al., 2007).

Giving and making meaning in social context or communication for social purposes. Includes: **Social Abilities** and Discourse - Pre-linguistic communication: e.g., facial expression, joint attention, gesturing. Communication intentions/purposes: e.g., requesting, commenting, greetings, asking questions, giving reasons, making predictions. Non-verbal communication: e.g., understanding body language and facial expressions. - Non-literal language: e.g., inferences, idioms, metaphors, jokes, sarcasm. Matching communication style to social context: e.g., adjusting communication style between friends and teachers. - Conversation conventions: e.g., topic selection and maintenance, conversational turn Text cohesion: e.g., verbal fluency (mazes and incomplete sentences), transitions between sentences/paragraphs. Text organization (discourse or macrostructure): e.g., Narrative structure, episodic structure. Examples: • A child learns to use symbols to communicate for a range of communicative functions. • A child learns to stay on topic and take turns in conversation. • A child learns to sequence information in order and follow genre-specific conventions (story grammar) when telling a narrative. (American Speech-Language-Hearing Association, n.d.; Beukelman & Mirenda, 2013b; Boyle et al., 2007). Ability to think about own thought processes and understand how to regulate these processes Meta-Language for effective learning. Includes: - Meta-cognition: Knowledge and use of strategies for managing and own learning. - Meta-language: Knowledge of phonemic (phonemic awareness), morphological/syntactic (meta-syntactic) or text-level (meta-narrative) rules in relation to own skills; and ability to effectively apply these rules for improved performance. Meta-pragmatics: Knowledge of social conventions in relation to own communication and ability to apply this knowledge to improve communication with others. Examples: • A child explicitly learns to identify and implement strategies that facilitate their own learning or performance, e.g., "It helps me find and correct grammatical mistakes when I read my written work aloud to myself" (meta-cognitive). • A child explicitly learns about the phonological structure of words (phonological awareness skills) by segmenting words into sounds (meta-language). A child's meta-pragmatic skills are assessed by asking the child to describe what they would do in a social situation and why (meta-pragmatics). (American Speech-Language-Hearing Association, n.d.; Larson & McKinley, 2003; Law et al., Domains Executive Collection of related cognitive processes necessary for execution of goal-directed, controlled, **Functions** purposeful behavior. Includes: **Inhibition** (self-control): Ability to focus and attend to tasks through suppression of inappropriate thoughts, comments, and behaviors. **Emotion control** (self-regulation): Ability to manage emotions for task completion. - Working memory: Ability to retain, process and manipulate pieces of information for short periods of time to complete required tasks. - Organization: (strategic planning) Ability to use organizational strategies for task completion, e.g., envisioning the end product, planning steps to complete tasks, and identifying solutions to problems. - Mental flexibility: Ability to integrate prior knowledge and experiences or effectively apply of different rules for different situations. - Sustained attention: Ability to maintain attention to tasks despite distractions or fatigue. • A child explicitly learns and practices skills for successful project completion, e.g., forming a plan, identifying project stages, identifying/collecting materials needed, implementing the

plan, checking progress according to plan (organization and self-regulation).

with prompts also faded over time (sustained attention).

2007).

• The length of time for which a child stays focused on task is gradually increased each day,

(Dawson & Guare, 2015; Henry et al., 2012; Singer & Bashir, 1999; Ukrainetz, 2006; Wolter,

ion or on	Comprehension	Understanding of information, knowledge and ideas communicated by others (includes verbal and non-verbal). Examples: • A child learns to follow multi-step verbal directions with spatial concepts. • A child learns strategies to improve reading comprehension. • A child learns to understand emotions conveyed in the facial expressions of others.
Comprehension production	Production	 (American Speech-Language-Hearing Association, n.d.; Boyle et al., 2007; Law et al., 2003). Ability to convey information, knowledge, and ideas to others (includes verbal or non-verbal) Examples: A child learns to produce complex sentences with coordinating conjunctions. A child learns strategies to improve spelling of words. A child learns to use vocalizations to intentionally communicate basic wants and needs.
		(American Speech-Language-Hearing Association, n.d.; Boyle et al., 2007; Law et al., 2003).

		Aspect II Intervention Purpose
ose	Skill Development	 Interventions aimed at improving communication by directly teaching skills that impaired or lacking (i.e., lessen the degree of disorder or remediate deficits associated with a condition). Examples: A child learns to correctly produce grammatical forms when describing pictures (development of syntax skills). A child learns the skill of identifying sounds in words (development of meta-abilities, specifically phonemic awareness). A child learns to identify the components contained in well-structured narrative stories and apply this structure to their own story writing (development of meta-abilities, specifically meta-narrative skills). (Justice & Redle, 2014; Paul & Norbury, 2012; Ukrainetz, 2015a).
Purpose	Strategy Use	Interventions aimed at improving communication by teaching functional strategies. The intervention does not intend to directly alter the disorder but aims to teach use of strategies for more effective communication (i.e., compensatory strategies). Examples: • A child learns strategies for identifying and managing communication breakdowns in conversation (strategy for managing difficulties with social abilities). • A child learns to use a thesaurus to increase the variety of vocabulary used in creative writing (strategy of managing semantic difficulties). • A child learns organizational strategies, such as referring to a list of items they need each day whilst packing bag (strategy for managing difficulties with executive functioning, specifically organization). (Justice & Redle, 2014; Paul & Norbury, 2012; Ukrainetz, 2015a).

		Aspect III Intervention Delivery
	Delivered by SLP	Interventions primarily delivered by an SLP. These interventions may involve others as communication partners or include follow-up activities or homework delivered by others; however, the SLP is the primary person providing the intervention for the duration of the intervention block. Examples:
		 Child receives weekly intervention conducted by SLP with home practice provided. SLP works with a child in class each week to support understanding of curriculum vocabulary.
		(Boyle et al., 2007; Cirrin et al., 2010; Dickson et al., 2009).
	Delivered by Other	Interventions primarily delivered by other people, e.g., parent, teacher, teacher-aide, other professional, therapy assistant etc. The role of SLP input is to train or support "others." This may include providing training/coaching, giving instructions/advice, or supplying intervention materials. The SLP may also conduct intervention with the child for the specific purpose of modelling or demonstrating to those being trained. The level of SLP input may vary highly depending on the training needs or may vary over time, e.g., the SLP may have high input initially which then reduces as the "other" person becomes trained. Examples: In SLP sessions, the SLP specifically models and trains a parent to implement language stimulation techniques at home. SLP provides teacher training on classroom strategies to facilitate improved learning of vocabulary words. A teacher-aide delivers a manualized language intervention program to small groups of identified children.
por		(Boyle et al., 2007; Cirrin et al., 2010; Dickson et al., 2009).
Method	Face-Face (only applicable to interventions delivered by a	Intervention is conducted with the child and the person delivering the intervention in the same room. Example: • A child attends face-to-face intervention sessions with an SLP (or another trained person).
	person)	(American Speech and Hearing Association, 2010; Molini-Avejonas et al., 2015).
	ICT (only applicable to interventions delivered by a person)	Intervention is delivered with the child and the person delivering the intervention communicating through ICTs (information and communication technologies), e.g., videoconferencing, web-conferencing, telephone. Note: Technology that is not used for simultaneous two-way communication is not considered ICT. Example: • A child participates intervention sessions delivered via Skype or Zoom with an SLP (or another trained person). (American Speech-Language-Hearing Association, 2010; Molini-Avejonas et al., 2015).
	Software-based	The intervention is predominantly a computerized process (i.e., App, web-based program, or computer program) with no (or very limited) input from a person. The software selects tasks, presents tasks and gives feedback. A person may set a child up with a computer or be present as adult supervision; however, the process is predominantly computerized. If a person is required to select tasks or provide specific feedback, then the intervention is not categorized as software. Example: • A child participates in intervention conducted by an App. (Knight et al., 2013; Pokorni et al., 2004; Ramdoss et al., 2011).

Tier of support	Whole Class (Tier One)	Interventions delivered as (and suited for) whole class teaching, i.e., one adult per seven or more children. This may include interventions used to support universal design or curriculum differentiation.
		(Law et al., 2012; Sanger et al., 2012; Speech Pathology Australia, 2014).
dn	Small Group	Interventions delivered as (and suited for) small group teaching, i.e., one adult for two-six
s Jo	(Tier Two)	children. This may include in-class focused support for small groups of "at-risk" children.
į.		(Law et al., 2012; Sanger et al., 2012; Speech Pathology Australia, 2014).
Т	Individualized (Tier Three)	Intervention delivered to an individual child.
		(Law et al., 2012; Sanger et al., 2012; Speech Pathology Australia, 2014).
	Clinical	Skills are learned in a clinical context, i.e., intervention does not incorporate materials or
	context	communication partners from day-to-day environments. Note: This category refers to the context being targeted in intervention, which may not be the same as physical location. <i>Example:</i>
		 A child is withdrawn from regular classroom activities for narrative intervention conducted by an SLP using materials that the SLP has brought to the school.
		(Fey, 1986a; McCauley et al., 2017).
context	School context	Intervention occurs in a school (or Kindy) context, i.e., incorporates communication partners, communication situations, and materials that represent a school environment. Note: This category refers to the context being targeted in intervention, which may not be the same as physical location. Examples: • An SLP explicitly teaches the sentence structures that a child will need to use to complete
		the assessment task for the current English unit of work at school. (McCauley et al., 2017; Ukrainetz, 2015b).
ıta	Home context	Intervention occurs in a home context, i.e., incorporates communication partners,
Environmental context		communication situations, and materials that represent a home environment. Note: This category refers to the context being targeted in intervention, which may not be the same as physical location. Example:
		 During an appointment in an outpatient clinic, an SLP trains a parent to support social skills whilst the child interacts with siblings in activities similar to the activities that occur at home.
		(Fey, 1986a; McCauley et al., 2017; Paul & Roth, 2011).
	Other community context	Intervention occurs in a community context, i.e., incorporates communication partners, communication situations, and materials that represent a community environment. Note: This category refers to the context being targeted in intervention, which may not be the same as physical location. Example: • An SLP assists a child learn to specific skills that are needed for a work experience
		placement, e.g., interacting with customers, writing down orders from the menu and counting money. (Fey, 1986a; McCauley et al., 2017; Paul & Roth, 2011).

Aspect IV Intervention Form

De-contextualized – Hierarchical

Naturalness of communication:

Discrete skills are targeted in highly structured tasks that are selected and directed by the adult, i.e., clinician-directed approach. Intervention sessions typically consist of a series of repetitive, drill-based tasks with minimal topic continuity between tasks. Games (or motivating tasks) may be used to make intervention entertaining; however, the target skills are not an inherent part of the game.

Intervention structure:

Skills are taught following a set (usually developmental) sequence, with progress to subsequent tasks dependent on mastery of previously targeted skills, i.e., bottom-up or deductive approach. Later stages may move towards more contextualized activities for generalization; however, the intervention initially teaches skills in de-contextualized tasks (this is unlike contextualized and activity-focused interventions which occur in naturalistic or real-life activities from the outset).

Theoretical background:

The underlying theory is that earlier developing skills should be taught first, and skills are mastered in highly structured situations before generalization to everyday communicative contexts.

Examples

- The communicative function of request-making is targeted in adult-directed, drill tasks designed for repetitive practice of "requesting" desired items/objects. Successive goals are introduced as previous goals are mastered.
- A child develops phonemic awareness skills through a software program that presents sound identification and manipulation tasks in spoken single words (e.g., Tell us how many sounds you hear in the word "dog"). Tasks are presented in developmental sequence based on the child's success with previous tasks.
- A child learns to produce sentences with conjunctions during a series of drill tasks
 using picture cards as stimulus. Comprehension is taught before production and
 earlier developing conjunctions are taught first, with later developing conjunctions
 targeted after earlier conjunctions have been mastered.
- A child practices mnemonic strategies whilst repeating strings of random numbers or words. The length of the strings of numbers or words gradually increases in length over time.

(Damico & Damico, 1997; Fey, 1986d; Gillam et al., 2012; Helland et al., 2011; Koole et al., 2015; Paesani, 2005; Ukrainetz, 2015a).

De-contextualized -Non-Hierarchical

Naturalness of communication:

Same as for de-contextualized – hierarchical (see above).

Intervention structure:

A variety of skills are practiced without a defined teaching sequence or a plan for how skills combine, i.e., intervention does not follow a set developmental or hierarchical sequence.

Theoretical background:

The underlying theory is that practice of discrete language skills stimulates cognitive processing and leads to enhanced overall functioning.

Examples.

- A child practices producing a variety of vocabulary words related to animals, people, and food in a picture naming task (and gets a turn at a game as a reward for naming each picture). Targeted words are not selected based on any defined sequence, topic, or developmental order.
- A child practices following directions containing a variety of different concepts whilst playing a barrier game. Concepts are not selected based on any defined sequence, topic, or developmental order.
- A child learns to explain what different idioms mean by turning over cards in a board game and explaining the meaning of the idiom written on each card.

(Fey, 1986d; Gillam et al., 2012; Koole et al., 2015; Ukrainetz, 2015a)

Task Type

Task Type

Contextualized Naturalness of communication:

Intervention activities are structured and directed by the SLP but occur in meaningful, natural interactions between the child and the adult, i.e., hybrid approach. Intervention sessions are centered on a topic, such as a storybook selected by the SLP, with topic continuity across activities within a teaching session.

Intervention structure:

Intervention may not be structured according to a hierarchical sequence, as the focus is on maintaining a meaningful context, i.e., top-down or inductive approach.

Theoretical background:

The underlying theory is that skills should be developed in naturalistic and meaningful contexts. Discrete skills may be targeted; however, focus remains on a communicative purpose, such as telling a story.

Examples:

- An art task is selected to target the communicative function of "requesting." The adult models appropriate requests whilst interacting with the child; sets up naturalistic situations where requests are needed (e.g., putting crayons out of reach); and provides scaffolding to assist the child to make requests.
- In shared book reading (using specifically selected picture books) a child is supported to learn phonemic awareness skills, i.e., "sounding out" words from the book.
- A parent models targeted sentence structures whilst building with Lego and encourages the child to produce targeted sentences structures by asking specially selected questions about the Lego.
- A game of "Go-Fish" with an SLP is used for the purpose of practicing social communication skills such as turn taking and following rules in a game.

(Fey, 1986c; Gillam et al., 2012; Koole et al., 2015; Ukrainetz, 2015a)

Activity-focused

Naturalness of communication:

Intervention occurs within the child's regular everyday activities or school curriculum, with adults responding to the child's communication by providing scaffolding and supports, i.e., child-directed approach. Skills are taught directly within the daily-life activities in which they occur, with focus on functional performance and use of skills needed to complete the activity. Where discrete skill acquisition occurs, this is directly linked to the specific activity being targeted.

Intervention structure:

Intervention targets are selected based on functional skills needed to complete an activity, rather than on a developmental or hierarchical sequence.

Theoretical background:

The underlying theory is that intervention should be directly aimed at facilitating participation, functional performance, or independence in everyday activities (activity and participation levels of the ICF).

Examples:

- During typical child-directed play at lunchtime, a child is supported (through scaffolding and prompting from an adult) to further develop social communication skills such as making appropriately requests for the ball, taking turns, and following rules.
- Whilst completing a task based on the English unit of work at school, the child is supported to learn phonemic awareness skills, i.e., 'sounding out' words as they write them.
- Whilst reading a factual report for a school assignment in class, a child learns to use a
 dictionary to understand the meaning of unfamiliar words.
- When cooking a family meal at home, a child is supported to learn the meaning of vocabulary words in recipes, e.g., chop, whip, flip, sprinkle, sift.

(Fey, 1986b; Hyter, 2003; Ukrainetz, 2015a; Westby, 2007)

Aspect V Teaching Techniques

(Beukelman & Mirenda, 2013a, 2013b; Ebbels, 2007; Eisenberg, 2014; Embry & Biglan, 2008; Gillam & Loeb, 2010; Hegde, 2006; Hyter, 2003; Kaderavek, 2015; Kamhi, 2014; McClintock et al., 2014; Paul & Norbury, 2012; Proctor-Williams, 2009; Proctor-Williams & Fey, 2007; Reichow & Volkmar, 2010; Rosenshine, 2012; Roth & Paul, 2014; Smith-Lock et al., 2013; Smith-Lock et al., 2015; Snell et al., 2006; Starling et al., 2012; Warren et al., 2007; White et al., 2007)

	Time delay (expectant waiting)	Waiting longer than is typical for a desired response (with no other prompts provided while waiting).
	Physical (tactile) prompts/cues	Use of touch to prompt or cue a child to begin or continue a task, e.g., hand over hand manipulation for the child to complete a task or shoulder touch to prompt a response.
	Gestural prompts/cues	Use of gesture or facial expression to elicit a target response, e.g., pointing to an object of importance; gesture to remind child of a required response.
Prompting techniques	Visual prompts/cues	Use of visual prompts or cues (pictures, symbols, or writing) to elicit a target response, e.g., provision of a picture to prompt production of a word; picture sequence to prompt retell of a story.
	Verbal (auditory) prompts/cues	Use of a verbal prompt or cue to elicit a target response. This may include: - Questions (open or closed): Use of questions to elicit a targeted response. The format of questions varies depending on the desired response, e.g., "What did the boy do yesterday? (to elicit a morphological form)," "Why did you choose that answer? (to elicit a demonstration of meta-awareness)"; "Is the carrot orange or red?" (to prompt for additional information). - Suggestions (direct or indirect): May be a direct instruction regarding the expected response, e.g., "Use 'ed' at the end of the word." Or an indirect 'reminder' of what is expected, e.g., "Remember that we are talking about something that happened yesterday." - Cloze completion: Providing a word, sentence, or phase for the child to complete, e.g., "The boy is" - Phonemic prompt: Use of an initial sound/syllable in a word to prompt a response, e.g., "A carrot is a type of veg" or "The word starts with an 's' sound."
	Modeling for Imitation	Specific request/expectation for the child to produce (imitate) a response (verbal, written, symbolic or gestural) that has been explicitly modeled, e.g., "Say" The imitation may be a direct or delayed; or may be a response to a predictable or scripted scenario.
Linguistic techniques	Modeling for Demonstration	Deliberate presentation or model of an intervention target, without expectation of immediate response from the child. Demonstrations may be provided by: - Adult modeling (either in real-time or through videorecording). - Peer modeling (either in real-time or through videorecording). Note: the presence of peers does not in itself constitute "peer-modeling" unless the peer has been deliberately primed or placed to provide modeling. - Video modeling (or video feed-forward): child's response is recorded and then edited and corrected before playback to child.
	Think Aloud	Verbalization of the problem-solving processes or strategies involved in completing a task such as making predictions, decoding texts, summarizing information, editing, and writing, e.g., adult verbalizes the strategies used when an unfamiliar word is encountered in a text.
	Inflection for demonstration	Demonstrational models in which deliberate stress is given to a target, e.g., "The boy walkED" or "I hear a "sh" sound in the word SHell."
	Focused contrast	Deliberate comparing of incorrect response with a correct response, e.g., "We don't say: 'Yesterday this girl walk'; we say: 'Yesterday this girl walked" or "This boy called out in class, but he should have put his hand up."
	Recasts/ expansions	Immediate repetition of the child's utterance with correction or modification of a target word or structure, whilst maintaining the core meaning of the utterance.

	Extensions	Immediate response to child's utterance by the adding one or more linguistic forms to expand the complexity or meaning of the utterance.
Regulatory techniques	Explicit instructions	Explicit instructions: Explicit instructions regarding the use of target forms, such as linguistic rules or social expectations are provided. Instructions may be provided as: - Verbal (explicit) instructions: Verbal information is provided to make the child explicitly aware of the linguistic rules or features being taught, e.g., "If something happened in the past tense we say 'ed' at the end of the word" or "When a person answers the phone, you say hello first and then tell the person who is calling." - Visual (explicit) instructions: Visual materials are used to explicitly explain the linguistic rules or features being taught, e.g., colors and shapes are used to visually describe grammatical elements in shape-coding intervention or pictures in social stories are used to visually represent a target behavior or concept.
	Relate content to past knowledge	Commenting on links or similarities between tasks or skills. For example: "The word 'vague' is similar to the word 'uncertain' that you learned last week"; "When you have something to say, you should wait until the other person has finished talking; just like in a game when you have to wait for the other person to have their turn before you have your turn."
	Explanation of goals or expectations	Learning intentions, goals or task expectations are described in an age-appropriate manner. Note: this is different to the technique "explicit instructions" (described above), because the explanations are about intervention goals or expectations rather than the communication rules/features being taught. - Verbal explanation: Verbal information is provided to explain goals or expectations, e.g., "Today we are learning and you will have learnt this when you can" or "When you have scored 20/25 or higher you will move onto the next task." - Visual explanation: Visual information is provided to explain goals or expectations, e.g., Use of visual chart or written materials to show tasks that the child is expected to complete in an intervention session.
	Feedback	The purpose of feedback is to provide the child with specific information on their performance (strengths and weaknesses) in relation to what is being taught. Feedback is intentional, specific to the intervention goal and provided immediately (or as soon as practicable) after the child's performance. This may include: - Verbal feedback: Child receives verbal information regarding their response or performance, e.g., "Oops, you forgot to say" or "Good work! You remembered to describe who the characters in the story are." - Visual feedback: Child receives visual information regarding their response or performance, e.g., the barrier is lifted in a barrier game so the child can see differences in their response compared to a correct response, or a teacher holds up different colored cards in class as a way of giving feedback on a specific communication behavior. - Repetition as feedback: Child's own response is repeated as a means of encouraging the child to correct their response, e.g., "Did you mean to say?" or "Does sound right?" Repetition may be provided by an adult or may be a recording of the child's response played back. - Natural consequence: Feedback received through natural consequence in an interaction, e.g., communication partner gives a confused look; child does/does not find an object by accurately following direction; or child receives/does not receive the item that they tried to ask for.
	Rewards/ reinforcement	Rewards (positive reinforcement) provided for the purpose of keeping the child motivated or interested. Rewards include non-tangible reinforcement, e.g., child receives opportunity to engage in a favored activity after task completion; or tangible reinforcement, e.g., child receives favored items after task completion. Notes: Natural consequences (above) are not also counted as rewards - if a child receives an item that they successfully requested then this is identified as a natural consequence rather than a reward. However, rewards may be provided in addition to a natural consequence, e.g., child may receive they item they requested and then also get a sticker to place on a chart. Verbal praise, encouragements and positive affirmations have not been included as "rewards" in this taxonomy. This is because positive interactions with clients is considered to have a place in all interventions (either with or without other rewards or feedback) and are thus not a feature that distinguishes some interventions from others.

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