

# Infusing Literacy Supports into AAC Across the Developmental Trajectory

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- Literacy skills are essential for full participation in education, employment, and independent living (Light & McNaughton, 2013)
- For people who use AAC, functional literacy skills are critical for generative, independent communication but are often left out of literacy instruction
- Functional literacy skills require the integration of multiple complex skills (e.g., phonological awareness, sound blending, letter-sound correspondence; Adams, 1990)
- The Transition to Literacy (T2L) features can be integrated into AAC applications to support formative literacy skills, to supplement systematic direct literacy instruction
  - Sight word, decoding, sound blending, letter-sound correspondence
- We aim to provide examples of ways we have used the T2L feature to increase exposure to literacy aspects for a range of participants across the language and literacy developmental trajectory



## Poster and additional resources:

Literacy Skill	Description	T2L Feature		Grade in typical development	Language stage in typical language development	Pre-literacy skills	Early Intervention	Preschool	Kindergarten (5-6)	Early Elementary School	Later Elementary School	Middle School and Beyond	Increasingly complex semantics and morphosyntax
		Pre-literacy Skills	Sound Blending										
Pre-literacy Skills	<ul style="list-style-type: none"> <li>Print awareness in books/the environment</li> <li>Print motivation</li> <li>Vocabulary knowledge</li> <li>Narrative skills</li> </ul>			<ul style="list-style-type: none"> <li>T2L Single Word feature – print awareness (i.e., drawing attention to print)</li> <li>VSD-based AAC systems – print motivation, vocabulary knowledge, narrative skills with embedded hotspots to support communication and/or language learning</li> </ul>									
Sound Blending	Merging together individual phonemes to form a word		T2L Decoding feature										
Phoneme Segmentation	Recognizing the individual phonemes in a word		T2L Decoding feature	Adapted to target initial phoneme segmentation (continuing to other word positions)									
Sight Word Recognition	Recognizing a whole written word as one symbol		T2L Single Word feature										
Letter-Sound Correspondence	Pairing a letter (grapheme) with the sound it makes (phoneme)		T2L Decoding feature	Adapted to target initial letter phoneme segmentation with target letter sounds in the initial position									
Decoding	Sounding out novel words – requires (a) letter-sound correspondence and (b) sound blending skills		T2L Decoding feature										
Encoding	Spelling words by sound – requires (a) letter-sound correspondence and (b) phoneme segmentation skills		T2L Decoding feature										

Diagram showing T2L Decoding Feature and T2L Single Word Feature examples:

- T2L Decoding Feature:** Examples include a dog image with phonemes /d/ /a/ /g/ and the word "dog", and a cat image with phonemes /k/ /e/ /t/ and the word "cat".
- T2L Single Word Feature:** Examples include a cat image with words "dog", "grumpy", "happy", "bear", and a grid of phonemes (d, a, g, k, e, t) with arrows pointing to the words.

## Example Intervention Activities (could target any literacy skill)

Younger Learners	Older Learners
<ul style="list-style-type: none"> <li>Shared storybook reading: (a) digital books programmed into VSD apps; (b) storybook topic pages in a grid app (personalized books or commercially available books)</li> <li>Shared viewing of motivating videos in video VSD apps – e.g., animated storybooks, clips from preferred shows</li> </ul>	<ul style="list-style-type: none"> <li>Shared viewing of motivating videos in video VSDs – e.g., YouTube/TikTok videos, clips from preferred shows, music videos</li> <li>Video (or static) VSD models of sequenced activities that are motivating in daily life (e.g., cooking, employment activities, grocery shopping, etc.)</li> <li>Structure conversation about preferred topics (e.g., sports, music, celebrities, hobbies) in VSD apps – may be in the context of age-appropriate personalized “books”</li> </ul>

	Scene & Heard Pro	Go Visual	Saltillo Dedicated Devices	Snap Scene	Scene Speak	GoTalk Now
T2L Single Word feature	Yes	Yes	Yes	Yes	Yes	--
T2L Decoding feature	Yes	--	--	--	--	--
VSDs	Yes	Yes	--	Yes	Yes	Yes
Video VSDs	Yes	Yes	--	--	--	--
Free Trial Version	--	Yes	--	Yes	--	Yes

## Referenced Transition to Literacy (T2L) Articles

[Boyle et al. \(2021\)](#)

[Holyfield et al. \(2020\)](#)

[Holyfield et al. \(2024\)](#)

## Apps with T2L Features

[Scene & Heard Pro](#)

[GoVisual; GoVisual Experience \(free version\)](#)

[Saltillo dedicated devices](#)

[Snap Scene and Snap Scene Lite \(free version\)](#)

[Scene Speak](#)

[GoTalk Now; GoTalk Now Lite \(free version\)](#)

## Additional Resources

[AAC Learning Center: T2L Decoding](#)

[AAC Learning Center Moodle](#) (with self-paced trainings on literacy intervention for AAC users)

[Accessible Literacy Learning app \(ALL\)](#)

[AAC Literacy PSU](#)

[T2L Bundle through the RERC](#) (free CEUs)