

**Supplemental Material S3.** Participants, speech-generating device (SGD) types/use, and routines/settings.

<b>Article</b>	<b>Age range</b>	<b>Diagnoses</b>	<b>SGD type</b>	<b>SGD prior use</b>	<b>Routine</b>	<b>Setting</b>
Ballin et al. (2012)	Secondary	Cerebral palsy (1) Cerebral palsy/ID (1)	Not stated	Prior use	Conversation	School
Bellon-Harn & Harn (2008)	Elementary	Multiple disability (1)	Simple	No prior	Book reading	Clinic
Biggs et al. (2017)	Elementary Secondary	Down syndrome (2) ID (1) Other (1)	Not stated	Prior use	Classroom routines	School
Binger et al. (2008)	Preschool	Speech disorder (2)	Intermediate	No prior	Book reading	Home
Binger et al. (2010)	Preschool Elementary	DD (2) Cerebral palsy (1)	Intermediate	Prior use	Book reading	School
Binger & Light (2007)	Preschool	Down syndrome (1) Other (2)	Intermediate	Prior use	Play	School Home
Bingham et al. (2007)	Secondary	Multiple disabilities (1)	Simple	Prior use	Classroom routines	School
Chung & Carter (2013)	Secondary	ID (2)	Simple Advanced	Prior use	Classroom routines	School
Chung & Douglas (2015)	Elementary Secondary	ASD (3)	Not stated	Prior use	School specials	School
Cosbey & Johnston (2006)	Preschool Elementary	Cerebral palsy (2) Cerebral palsy/Other (1)	Simple	No prior	Play	School
Datillo & Camarata (1991)	Secondary	Cerebral palsy/ID (1)	Advanced	Prior use	Conversation	Home
Dicarlo & Banajee (2000)	Preschool	Other (2)	Simple Intermediate	No prior	Meal	School
Douglas et al. (2013)	Preschool	Cerebral palsy/ Other (1)	Simple	Prior use	Play	School
Durand (1993)	Preschool Secondary	Cerebral palsy/ ID (2) ID (1)	Simple	No prior	Classroom routines	School
Durand (1999)	Preschool Elementary Secondary	Cerebral palsy/ ID (2) ID (1) ASD/ID (2)	Simple	No prior	Classroom routines Meal Leisure	School Comm- unity

Dyches (1998)	Elementary Secondary	ASD/ID (2) ID (1)	Simple	No prior	Classroom routines Meal	School
Edmister & Wegner (2015)	Elementary	Cerebral palsy (2) Other (1)	Advanced	Prior use	Book reading	School
Finke et al. (2017)	Elementary Secondary	ASD (6)	Intermediate	Prior use No prior	Book reading	School
Ganz et al. (2015)	Preschool	ASD (2)	Simple	No prior	Book reading	Clinic
Harding et al. (2009)	Preschool	DD (2)	Simple	Not clear	Play	Home
Iacono & Duncam (1995)	Preschool	Down syndrome (1)	Intermediate	Prior	Play	Clinic
Johnston et al. (2003)	Preschool	Cerebral palsy (1) Multiple disabilities (1)	Simple	Not clear	Meal School specials	School
Kent-Walsh & Binger (2010)	Preschool Elementary	Cerebral palsy (3) Down syndrome (3)	Simple Intermediate	Prior use	Book reading	Home
Light et al. (1999)	Elementary Secondary	Cerebral palsy (1) ID (1)	Advanced	Prior use	Conversation	School Comm- unity
McGregor et al. (1992)	Secondary	Cerebral palsy/ ID (1)	Advanced	Prior use	Vocation	School
McMillan & Renzaglia (2014a, 2014b)	Elementary	ASD/ ID (4)	Simple Advanced	Prior use	Classroom routines	School
Olive et al. (2007)	Preschool	ASD (3)	Simple	No prior	Play	School
Olive et al. (2008)	Preschool	ASD (1)	Simple	No prior	Book reading Play Leisure	Home
Schepis et al. (1998)	Preschool	ASD (4)	Simple Intermediate	No prior	Meal Play	School
Taylor & Iacono (2003)	Preschool	ID (1)	Simple	No prior	Play	School
Trembath et al. (2009)	Preschool	ASD (3)	Simple	No prior	Play	School
Trottier et al. (2011)	Secondary	ASD (2)	Intermediate	Prior use	Play	School

*Note.* Preschool = participants ages 0–5 years; elementary = ages 6–10 years; secondary = ages 11–21 years; ASD = autism spectrum disorder; DD = developmental delay; ID = intellectual disability; other = specified developmental disability other than autism, cerebral palsy, or Down syndrome; simple = SGD included 1–12 available messages; intermediate = more than 12 available messages, but did not describe the use of navigation; advanced = utilized more than 12 messages and navigation.

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