Supplemental Material S1. Codes and definitions for participants, speech-generating devices (SGDs), dependent variables, and settings/routines.

Category	Code	Operational definition
Age group	Preschool	Ages birth to 5 years
	Elementary	Ages 6–10 years
	Secondary	Ages 11–21 years
Diagnosis	Autism spectrum disorder (ASD)	Specified diagnosis of autism, ASD, pervasive developmental disorder, or Asperger syndrome
	Cerebral palsy	Specified diagnosis of cerebral palsy
	Intellectual disability	Specified intellectual disability or mental retardation (primary or secondary)
	Developmental delay	Specified primary diagnosis of developmental, language, or cognitive delay
	Down syndrome	Specified diagnosis of Down syndrome
	Multiple disability	Specified primary diagnosis of multiple disability
	Speech disorder	Specified primary diagnosis of a speech disorder (e.g., apraxia)
	Other	Specified diagnoses of other developmental disabilities not listed above (e.g., Prader–Willi syndrome)
SGD type	Simple Intermediate Advanced Not stated	SGD with 1–12 symbols per page (including switch device) SGD with more than 12 symbols, but no navigation described SGD with more than 12 symbols per page, and navigation described Unclear information about SGD (may have mentioned device name but not specifically number of messages)
SGD prior use	No prior use Prior use Not stated	Stated/implied participants had minimal to no prior SGD use Stated/implied participants had previously used an SGD Prior use not clear or not stated
Routine	Book reading Classroom routines Conversation Leisure/recreation Meal Play School specials Vocation	Routines based around reading Routines typical of classroom (e.g., circle, group work) Routines in which the primary activity was a conversation Non–school leisure activities such as sports, arts, shopping, movies Routine in which main activity surrounded eating/drinking Routines specified as play, social games, board games School special routines such as art, music, library Routine involving work/career skills
Setting	School Home Clinic Community	School or daycare center Primary place of residence (including residential facilities) University clinic or laboratory Community contexts (stores, restaurants, etc.)