Appendix B

Classroom Learning Environment in the Included Studies

Included Study	Education Settings	Bilingual program	Language(s) of instruction	Teachers use of child's L1	Teaching strategies	Peers use of child's L1	Support or Intervention	Students' Outcome reported
1. Björk-Willén & Cromdal (2009)	Preschool	Not specified	Swedish, English, and Spanish	Use of L1	Structured activities, multimodal learning experience, nonverbal communication used to reinforce instructions	Scaffolding by peers	No	N/A
2. Bligh (2014)	Preschool	Not specified	English	Teacher assistant spoke L1	Group activities, nonverbal communication, structured discussions, role-playing exercises, language-rich interactions through storytelling and discussions		No	N/A
3. Cekaite (2007)	Reception classroom, for refugee/im migrant children	Not specified	Swedish	Use of L1	Cooperative and collaborative interactions among peers, structured classroom activities, use of L1,	Use of L1	No	N/A
4. Cekaite (2012)	Mainstream first-grade classroom	Monolingual Program	Swedish		Tactile guidance to direct the child's attention, repeating imperatives for task instructions, scaffolding, Individual assistance during pull-out activities, positive reinforcement, peer collaboration	Peer collaboration	Affective Stances: Changing mood, attitude, feeling, and disposition towards L2	stance changed significantly; more interest in participation
5. Chaparro (2020)	Two-way immersion program	Bilingual Immersion Program	English, Spanish	Use of L1	Flexible language policy, allowing use full language repertoire, , language-rich activities, small group activities, Close table seating promoting participation	Use of L1, peer interaction encouraged	No	N/A

6. Clarke (1989)	Preschool with L2 support	Not specified	English, Vietnamese	Use of L1	Structured group activities, structured routines, interactive learning experiences, role play and play-based learning	Use of L1, peer interaction opportunities	No	N/A
7. Dasilva-Iddings & Jang (2008)	Mainstream kindergarte n	Monolingual Program	English		structured routines, visual cues, nonverbal mediation, modified speech patterns, and task-related materials that supported the child's communication and participation		Using classroom activities as a mediator to encourage participation	Child gained confidence, improved L2 skills, and actively participated in class.
8. Day (1981)	Laboratory school in Honolulu	Not specified	English		Structured classroom, peer interaction, opportunities to share stories, teacher as a facilitator		No	N/A
9. de Oliviera et al. (2016)	Kindergarte n	Bilingual Approach	English	Use of L1	encouraging active participation, , individualized support available, visual aids, hands-on materials, cultural relevant content	Use of L1, peer collaboration	Using code switching by the teacher to encourage communication	Students showed a more expanded vocabulary in both languages
10. Dominguez & Trawick-Smith (2018)	Child developme nt center on a university campus	Not specified	English	Use of L1	Multilingual resources and learning materials, clear communication expectations, multilingual support staff, culturally responsive curriculum	Use of L1, peer interactions and collaboration	No	N/A
11. Drury (2007)	A British nursery school	Not specified	Pahari, English	Use of L1, experience with bilingual students	small group activities, book sharing sessions, use of visual aids.	Use of L1	No	N/A
12. Drury (2013)	A British nursery school	Not specified	English, Pahari	Use of L1, experience with multilingual children	small group activities, use of visual aids	Use of L1	No	N/A

13. Ervin-Tripp (1974)	French classroom in Geneva, Switzerland	Monolingual program	French	interactional dynamics between children and their teacher	multilingual settings	Peer interaction and collaboration	No	N/A
14. Fernandez (2014)	Public primary school	L2 only program	Luxembourgis h, German		nonverbal resources available in the classroom, opportunities for participation, school support for Portuguese two hours a week	Peer support, peers from diverse language background	encouraging peripheral participation	began participating more in classroom activities and using more L2
15. Gibbons (1985)	Roman Catholic primary schools	Monolingual Program	Not specified, likely English				No	N/A
16. Hayes & Matusov (2005)	Dual- language kindergarte n classroom	Dual Language program	Spanish, English	Use of L1	interactive classroom activities	Use of L1	Teacher-student conversation (using dialogue strategies to encourage communication)	Some success in long conversations, but overall dialogue attempts struggled.
17. Huang & Hatch (1978)	Morning 2 hr play- school	Monolingual Program	English	No use of L1	Teacher encouragement, one on one work	No use of L1	No	N/A
18. Itoh & Hatch (1978)	Nursery school	Monolingual Program	English	teacher providing feedback in L2	English-speaking classroom, repetition games, use pictures to teach vocabulary	Use of L1, peer interaction	No	N/A
19. Karem & Hobek (2022)	Local early childhood education program	Not specified	English	Use of L1	Visual supports	Peer- mediation intervention, use of L1	Peer-mediated intervention-partnering emergent bilingual students with monolingual for twenty minute sessions, twice a week for two weeks	exhibited increases in their conversation initiations and responses

20. Karniol (1990)	Hebrew daycare 4–6 hours daily	Immersion program	Hebrew	Use of L1	visual aids (e.g., picture) used to support learning, interactive activities, L2 resources (e.g., books)	No use of L1, peer interaction encouraged	No	N/A
21. Klenk (2004)	Kindergarte n	Not specified	English, Spanish	Use of L1	Multilingual resources (e.g., books), Individual tutoring by Klenk providing one on one speech practice through guided activities like storytelling	Use of L1	Guided Language Practice: Child was paired with a L2 tutor one on one for thirty to forty minute sessions once a week	showed gains in L2 during sessions but still rarely talked in the classroom
22. Krupa- Kwiatkowski (1998)	NR	Monolingual Program	English		Afterschool ESL program		No	N/A
23. Kultti (2014)	Preschools	Monolingual Program	Swedish		Structured activities, strong emphasis on using L2, participation in class was encouraged, communications during mealtime interactions, flexible group activities		Interactional Activities Context using nonverbal cues	small improvements in participation
24. Kultti (2015)	Two childcare centers in Australia	Monolingual Program	English	Teacher providing L2 verbal and nonverbal cues to engage the children	Children's nonverbal behaviors acknowledged and responded to, children are allowed to choose their preferred activities		No	N/A
25. Le Pichon & Jonge (2016)	Preschool	Monolingual Program	Dutch	-	Small group settings, one-on-one interactions, teacher's effort to build rapport, relaxed and playful activities	Supportive peers	No	N/A
26. Manigand (1999)	Classe Préparatoir e	Not Specified	French	Use of L1	Collaboration among teachers to provide supportive learning environments, open communication with parents	Use of L1	No	N/A

27. Martín-Bylund (2018)	Bilingual preschool	Bilingual Program	Spanish, Swedish	Use of L1	Scaffolding to support the child, participation was encouraged	Use of L1, peer interaction was encouraged	No	N/A
28. Meyer (1994)	University laboratory preschool program	Multilingual and multicultural environment	Korean, English	Use of L1	English support twice a week, structured learning activities, flexible seating arrangements	Use of L1, peer interaction encouraged	No	N/A
29. Mfeka & Thomson (2019)	Foundation Phase schools	Multilingual Program	Zulu, Xhosa, English	-	Use an innovative program model that adapted content to support children's learning, learners' progress in oral English skills was tracked over time	-	using video game learning for L2 teaching	Outperformed control students across all subjects, including English.
30. Sachs (1972)	nursery school to 2nd grade	Not specifically described	English				No	N/A
31. Saville-Troike (1988)	Regular nursery & elementary school	Monolingual Program	English		Gradual exposure to L2, use of routines, encouraging imitation, visual support	Use of L1	No	N/A
32. Schwartz et al. (2019)	ESL pull-out instruction; mixed language classroom	Dual Language Program	English	Use of L1, experience with bilingual children	Structured activities, group activities	Use of L1	No	N/A
33. Saville-Troike et al. (1984)	Preschool	Multicultural program	Hebrew, Arabic	Use of L1	Daily 30 min. ESL pull-out instruction that focuses on a child's individual needs. Classroom language was L1 & L2	Use of L1	No	N/A
34. Tabors (1987)	University part-day preschool; 1.5 hrs.	Monolingual Program	English	Use of L1	Supportive language techniques and loosely structured activities were used in the classroom, relaxed and playful opportunities.	Use of L1 in some cases	No	N/A
35. Tse et al. (2021)	Local kindergarte	Monolingual Program	Chinese	No use of L1	L1 students were given L2 mentoring sessions with an experienced tutor that provided individual support.	Use of L1	Targeted individual support- children were paired with an L2 tutor who gave targeted practice	showed an expanded vocabulary, higher usage of L2, and small

Note								
40. Yip & Matthews (2006)	NR	Not described	English, Cantonese				No	N/A
39. Yamat et al. (2015)	Mainstream elementary school	Not specified	English, Malaysian	Use of L1	visual teaching materials, class activities (e.g., role play), modeling conversation, participation was encouraged.	Use of L1	No	N/A
38. Winitz et al. (1995)	2nd grade classroom	Monolingual Program	English	No use of L1	Activities were structured and clearly marked. A tutor was assigned to him to help him with the L2 alphabet from June to the third week of August for 2 hours a day, twice a week, or for a total of about 36 hours.	No use of L1	No	N/A
37. Wilmes & Siry (2018)	Elementary school	Multilingual program	Luxembourgis h, German (language of science instruction), French	Use of L1	There were language models and structure incorporated in the activities and a priority on partner and pair work.	Use of L1	No	N/A
36. Vine (2006)	State primary school	L2 only program	Maori, English	No use of L1	Activities were loosely structured, incorporating various elements like speakers coming in, TV, drawing, etc. into the overall curriculum.	No use of L1	No	N/A
							over six sessions n a month	gains in conversation initiation

Note.

NR = not reported

In Gibbons (1985), Sachs (1972), and Yip & Matthews (2006), the classroom environment and strategies were not specifically described.

Classe Préparatoire is a preparation program for helping students to integrate into the mainstream French education system.