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**Adopting Quality for School Readiness (AQSR): A Heuristic Framework  
using Recommended Practice and Professional Knowledge to Support Oral Language in  
Multilingual Classrooms**

Sonali Nag, PhD, Professor of Psychology and Education, Department of Education,  
University of Oxford, Oxford, UK. <https://orcid.org/0000-0002-9557-4431>

Gideon Arulmani, PhD, Professor of Practice, and Managing Trustee, The Promise  
Foundation, Bangalore, India. <https://orcid.org/0000-0001-9026-9465>

Dhir Jhingran, PhD, Founder & Executive Director, Language and Learning Foundation,  
New Delhi, India

Jelena Mirković, PhD, Associate Professor, School of Education, Language and Psychology,  
York St John University, York, UK. <https://orcid.org/0000-0001-7540-0744>

Alis Oancea, Professor of Philosophy of Education and Research Policy, Department of  
Education, University of Oxford, Oxford, UK. <https://orcid.org/0000-0001-8499-7036>

Margaret Snowling, PhD, Professor of Psychology, Department of Experimental Psychology,  
University of Oxford, Oxford, UK. <https://orcid.org/0000-0003-0836-3861>

Author contributions: The order of authors after the first author is alphabetical.

Corresponding Author: Sonali Nag, 15 Norham Gardens, Department of Education,  
University of Oxford, Oxford, OX2 6PY, UK. [sonali.nag@education.ox.ac.uk](mailto:sonali.nag@education.ox.ac.uk)

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**Abstract**

Quality oral language interventions support children's readiness for formal literacy instruction and yet a framework for multilingual classrooms is not available. To address this gap, we drew on the empirical literature on linguistically diverse learners, classroom linguistic environments, and usage-based theories to identify principles for recommended pedagogical practices. We next examined how teachers explained their oral language teaching and what they said after delivering an intervention based on recommended practice. Using a reflexive approach to qualitative interview and questionnaire data, we found some convergence but also areas of limited overlap between recommended practice and teacher professional knowledge. Supporting child talk was seen to serve a motivational-affective purpose more than the cognitive-linguistic purposes implicit in research-informed recommended practices. Based on insights from specialized literature and distillations of professional knowledge, we propose a heuristic framework named Adopting Quality for School Readiness (AQSR). We also discuss uses for the AQSR framework and outstanding questions for future research.

**Key words:** diverse learners, early childhood education, multilingual classroom, oral language intervention, usage-based theory

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## **INTRODUCTION**

Widespread low attainment at the end of primary school has prompted calls globally for quality interventions to support children’s readiness for formal literacy instruction. Oral language skills are vital components of school success; when children begin with strong language foundations they can make positive gains in literacy. A focus on language is particularly urgent in low- and middle-income countries where one estimate is that 37% of children “are not being taught in the language they speak and understand best”, with numbers rising in some countries to 90% learning to read in a language other than the home language<sup>1</sup> (Crawford et al., 2021, p. 9). There are already several well-evidenced initiatives to support literacy development globally, with recommended teacher support for their implementation at scale (e.g., Stern et al., 2022). However, of particular interest here is the oral language instruction that must supplement literacy instruction to ensure success.

A modest but rapidly expanding evidence base is available on the precursor language skills linked to literacy growth, and the language-related risk factors for underachievement (e.g., Hjetland et al., 2020; Liu et al., 2024; Nag et al., 2014; Snow & RAND Group, 2002; Verhoeven et al., 2024). Converging evidence in alphabetic languages shows code-related skills like phoneme awareness and letter knowledge have a direct effect on the development of word decoding skills and an indirect effect on reading comprehension mediated via word decoding (e.g. Crawford et al., 2024). However, what is sometimes missed is that earlier

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<sup>1</sup>We use the term “home language” as a shorthand to signal the child’s primary language at home. It may or may not be the first language the child has learned or the only language in the child’s home or their ambient language environment.

developing oral language skills are the foundation for *both* decoding skills and reading comprehension across grades (e.g., Castles et al., 2018), and this finding holds across writing systems and languages (e.g., Romance, Slavic, Germanic, and Uralic language families: Caravolas et al., 2019; Ehm et al., 2023; Hulme et al., 2015; Torpa et al., 2016). Such broad-based and long-term impacts of strong oral language foundations provide the rationale for investing in the delivery of oral language interventions at scale.

Investing in language development interventions is especially essential when children begin literacy instruction in a language other than the home language<sup>2</sup>. Unsurprisingly, as with monolingual contexts, children in multilingual contexts who begin with lower levels of oral language are at risk of lower literacy attainments (Kenya: Wawire et al., 2021; multiple countries: Crawford et al., 2021). At the same time, for bi- and multilingual children, proficiency in the language of school instruction is significantly associated with attainments (Ke et al., 2021). Yet, despite acknowledgement of its importance, explicitly supporting oral language development in multilingual contexts has not been an area of systematic attention when enriching mainstream literacy interventions (e.g., Kenya: Dubeck et al., 2015; multiple countries: Stern et al., 2022).

We present a descriptive narrative of the complementary forms of expertise available within the research and practice communities and how these may be integrated into a framework to support implementation of oral language interventions at scale. Our focus is on universal, whole-class programs at school entry when children's experience of a match-mismatch between home-school language(s) is sharp. We use an evidence synthesis on

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<sup>2</sup>Of interest is the linguistic distance between the home language and the language of instruction in school. The distance may come from where a language variety sits along a dialect continuum and the characteristics of a language within or outside a given language family, and from diglossia. Distance and diglossia may surface in domains like phonology, morphology, and syntax.

linguistically diverse learners, classroom linguistic environments, and usage-based theories to identify principles for instructional strategies and recommended pedagogical practices. Here “practices” are defined as covering categories of pedagogical activities (e.g., recitation) and their sub-types (e.g., recitation of poems, choral repetition). Using two teacher studies, we next examine local professional knowledge and views about purposes of specific activities and find some convergence with recommended practices but also areas of limited overlap. Based on insights from the two—recommended practice and professional knowledge—we suggest a heuristic framework named Adopting Quality for School Readiness (AQSR). Our aim is to enable teachers to *flexibly* implement oral language interventions, and we see the AQSR as a potential framework to support this process.

### **Forms of practice**

Conducting research and the professional delivery of education may each be considered as a form of practice. Shared features in the two forms of practice include systematic and inquisitive thought, reflective use of tools, and the potential for considerate exercise of professional virtues (Oancea, 2018). Within this perspective, both teacher and researcher practice are seen as framed by personal aims and expectations and shaped by experiences about the teaching-learning process. For teachers, accumulated experiences may include implementing prior guidance, including those introduced to them as informed by research evidence. However, teachers may experience a gap between the realities of classroom interactions and the distillations of knowledge drawing on research evidence. In this paper, we conceive of the relationship between research and professional practice as dialogical rather than unidirectional—an approach that is consistent with arguments against reducing the relationship between research and practice to a linear application of an evidence base (e.g., Biesta, 2007; Higgins, 2011; Oancea & Furlong, 2007; Smeyers & Depaepe, 2006).

In parallel, there is the imperative to consider assumptions implicit in research-informed interventions against a pre-existing social-cognitive environment of beliefs that explicitly or implicitly underpin preferred educational practices (Arbib & Hesse, 1986; Arulmani et al., 2020; Asfaha & Nag, 2023; Bowne et al., 2018; Jukes et al., 2022; Nag, 2023; Newbury et al., 2021; Snowling et al., 2022). For example, a belief that choral lessons help learning may explain a preference for activities such as “spelling callout” and “say-after-the-teacher reading” (Dlamini, 2009, p. 10), or a belief about learning-by-writing may underpin daily copywriting and the “look-listen-say-copy” routine (Azulara, 2009, p. 9). These enculturated activities are common in many African, Latin American, and Asian communities (Arulmani et al., 2020; Nag et al., 2016) but often absent in most European communities. Some of these activities are yet to be systematically researched.

In addition, existing research in low- and middle-income countries, and specifically in India, suggests that teachers’ beliefs mediate implementation of education reform (Nag et al., 2016; Sriprakash, 2009), with one argument being that teachers’ beliefs serve as invisible barriers (Brinkmann, 2015, 2020). However, not much is known about teachers’ preferred practices for oral language development, and how these relate to either new policy or new recommendations from university-based research. Likewise, not enough is known about classroom-based solutions that have emerged from daily teaching situations in multilingual contexts. We examined these gaps in the literature about professional knowledge to then compare with recommended practice from published research.

### **Recommended practice: Evidence bases for oral language interventions**

We considered the following empirical literature to identify recommended practices for universal oral language interventions: (1) linguistically diverse learners, (2) classroom linguistic environments, and (3) usage-based theories of language development.

### ***Linguistically diverse learners***

Oral language interventions that are for all children in the classroom should ideally be informed by evidence on cognitive-linguistic needs that may be similar for first language (L1) and second/third language learners (henceforth L2 learners). While the literature is overwhelmingly focused on delineating group differences between L1 and L2 speakers (e.g., see meta-analysis by Melby-Lervåg & Lervåg, 2014), there is the smaller body of research on the *commonalities* across groups with diverse language characteristics. This research on similarities suggests remarkable parallels across groups in skills and processes. The precursor skills for reading comprehension such as word decoding, reading fluency, listening comprehension, vocabulary and morphological awareness, for instance, are similar among L1 and L2 learners, as are the patterns of their relative contributions and inter-relations (e.g., Drummond & Nakamura, 2021; Kieffer & Lesaux, 2012; Siegelman et al., 2024). There are similarities among monolingual and bilingual children also in how the amount and quality of language exposure explains growth in component skills of language such as vocabulary and grammar knowledge (Hoff et al., 2012). Finally, after controlling for socioeconomic status and school effects, children for whom the home and school language are matched develop similarly to those for whom the home and school languages are different. Indeed, a meta-analysis based on data from 41 countries from the Global South showed the association between home learning attributes and literacy attainments was similar irrespective of children's home-school languages (Nag et al., 2024). Not surprisingly then, teaching practices that support oral language development such as the quality of teacher talk (e.g., high lexical diversity, expansive syntactic complexity) or engaging children in talk (e.g., extended discourse, cognitively challenging talk), are similarly beneficial for linguistically diverse groups of learners (e.g., Dickinson et al., 2023).

### ***Classroom linguistic environments***

The micro-elements of talk in the classroom such as the number of unique words used by teachers, their pause times, and patterns of teacher-child turn taking are arguably the hidden core of an oral language intervention. Opportunities to produce language for communicative purposes and space for extended talk by the child are associated with an increase in children's vocabulary at school entry (e.g., Dickinson, 2001). In addition, growth in child vocabulary and the complexity of the sentence structures they use is predicted by the ratio of new and varied vocabulary and complex syntax in teacher talk (e.g., Dickinson & Porsche, 2011; Huttenlocher et al., 2002; Vasilyeva et al., 2006). Additionally, questions-guided talk improves children's narrative coherence (Silva & Cain, 2019). Another language-supporting practice is teachers' modelling of more sophisticated vocabulary and advanced sentence structures (also called "recasts"). Moreover, the pedagogically distinct approaches of questions-based conversations and the use of sophisticated syntax in teacher talk can be statistically explained by a single factor of teaching practices that provide "advanced linguistic models" (Justice et al., 2018, p. 89).

Teachers' use of pauses or "wait time" appears to be an especially strong prompt for children to extend their talk (e.g., Ingram & Elliot, 2016). Examples of extended child talk include the addition of descriptive details, explanations, and verbally reflecting on their thinking behind their inferences, predictions, and speculations. With teachers waiting and slowing down the pace of conversation, children have time to plan their talk (e.g., McDonald, 2013), reconstruct sentences, and process information more thoroughly. Making extra time available also provides the space to deepen conceptual knowledge (e.g., mathematics: Ingram & Elliot, 2016; science: Mercer et al., 2004) and predicts modest vocabulary growth (Justice et al., 2018). Wait time thus supports both language production and language comprehension.

Quality of communication is another key characteristic of a supportive language environment (e.g., Hirsh-Pasek et al., 2015). Almost all language supporting behaviors are

interpersonal and relational such as, when teachers tailor their replies to the level of the child's talk, scaffold the approximate language used to communicate, and affirm halting attempts. In addition, the level of respect, enthusiasm, warmth, and “the overall emotional tone of the classroom”—characteristics of a positive classroom climate (Hamre & Pianta, 2007)—are enabling factors in oral language development although they are not a sufficient condition for improving scores on standardized tests (Hamre et al., 2014).

### ***Usage-based theories***

A growing body of evidence from across different social and linguistic contexts, including classrooms at school entry, shows the key role of language exposure and language production in language development. This evidence base demonstrates that the quantity and quality of language input are essential for language acquisition and development (e.g., Hoff, 2006; Hoff et al., 2012; Huttenlocher et al., 2010; Rowe, 2012). Implicit learning mechanisms, including statistical learning, underpin these effects across all levels of linguistic structures (Ambridge & Lieven, 2015; Aslin & Newport, 2012; Chang et al., 2006; Romberg & Saffran, 2010; Rowland et al., 2012; Savage et al., 2006; Seidenberg & MacDonald, 2018). Here, statistical learning is the process of encoding and retaining probabilistic regularities in environmental language input, without either explicit, intentional instruction or a conscious awareness, to systematically learn. In addition, utterance planning before speaking is important because it is in the planning that multiple component skills of language come together for communication (MacDonald, 2013; Hopman & MacDonald, 2018). For children, language exposure and language production support multiple aspects of narrative expression (e.g., story grammar: Silva et al., 2014; Silva & Cain, 2019; the complexity of sentence structures: Hesketh et al., 2016; Huttenlocher et al., 2002; Kidd, 2012).

### *Evidence synthesis of principles, strategies, and practices*

For a research finding to be shortlisted for our evidence synthesis, two criteria had to be met: the availability of high quality, experimental studies and well articulated theorizing about the learning mechanisms associated with a principle, strategy, or practice. The criteria were assessed by a panel of language and literacy researchers (three of the authors and a working group). Findings were thematically organised under eight principles, with two to four instructional strategies and two to six overlapping recommended practices linked to each principle (see Table 1). The entries went through several iterations to ensure they were succinct yet conceptually distinct.

**Table 1**

Principles, instructional strategies, and recommended practices for oral language interventions at school entry from evidence synthesis.

Principle	Instructional Strategy <sup>1</sup>	Recommended Practice (to be read in conjunction with three enabling conditions for multilingual contexts <sup>2</sup> )
Provide rich language exposure	Story reading including stories scripted for rich language  Role modelling rich language use for communicative purposes  Peer-to-peer listening including during group answers and staggered retelling	Use the story as the core of the lesson  Before reading story ask meanings of words and/or teach new vocabulary  Use question-answers soon after story reading  Use questions to guide group talk
Demonstrate varied sentence use	When appropriate demonstrate use of <ul style="list-style-type: none"> <li>● simple mono-clausal sentences</li> <li>● more complex multi-clausal sentences (typically two clauses, occasionally three)</li> </ul>	Model well-structured full sentences after incomplete utterances by child  Model well-structured full sentences for answers gathered after each question
Demonstrate longer narratives	Listening to a problem-attempt-resolution story line  Building up from two-part narratives to multi-episode narratives	Model story retelling with story elements <sup>3</sup>  Model how to talk more about their thinking (e.g., about the story, a question, a study topic)
Support implicit learning	Listening to and practicing use (language production) of target vocabulary and sentence structures in <ul style="list-style-type: none"> <li>● stories scripted for frequent exposure to target vocabulary and sentence structures</li> <li>● multiple texts (fiction and nonfiction) for frequent exposure to target vocabulary and sentence structures but in diverse contexts</li> </ul>	Use questions to prompt thinking (e.g., about story elements <sup>3</sup> , a question, idea units in a study topic)  Use questions to draw attention to target vocabulary and sentence structures
Prime to enhance implicit learning	<ul style="list-style-type: none"> <li>● scripted answers to questions to continue frequent exposure to target vocabulary and sentence structures</li> </ul> Listening to extended talk and reconstructed/recast sentences <ul style="list-style-type: none"> <li>● especially following incomplete, brief, and condensed utterances</li> </ul>	Use questions that prompt children to predict, summarise, clarify and further question  Deliver lesson as close to the language-rich script  Make lesson as consistently language rich as possible

	Practicing extended talk	
Guide narrative production	Providing several opportunities for <ul style="list-style-type: none"> <li>• practicing extended talk using activities such as questioning after story reading</li> <li>• practicing longer narrations using activities such as story retell</li> </ul>	Give time for group and individual story retell Provide props to support recall Provide opportunity to communicate for an audience Use turn taking routines so all children get the opportunity to talk Use questions to extend thinking
Provide wait time	Giving time for children to plan before they say Giving time for children to reconstruct what they want to say	Ensure wait time during the question-answer activity and the story retelling activity
Nurture a positive communicative environment	Starting from where the child is Scaffolding to extended language use Encouraging conversational turn-taking	Model rather than simply say child did not express well Use praise for approximately close language use Praise child participation in teacher-child joint activity Praise turn-taking in child-to-child talk

<sup>1</sup>Supported by well-resourced materials and content such as age-appropriate and culturally diverse story books, thematically linked poems, and props for story retelling; also relevant for mandated textbooks.

<sup>2</sup>Three enabling conditions are essential for multilingual contexts: (a) accept code-switching, code-mixing and translanguaging in communications, (b) reject the monolingual rule that states that child and teacher talk must be in no language other than the school language, and (c) reject shaming and humiliating the child when their talk is in a variety other than the privileged variety.

<sup>3</sup>Examples of story elements include the character, setting, mental states, problem, attempts, and resolution.

### *Enabling conditions in multilingual classrooms*

The principles, instructional strategies, and recommended practices collated in Table 1 are to be read in conjunction with three conditions that were conceptualized as essential for multilingual contexts. The first enabling condition was to accept that alternating between languages is a spontaneous mode of communication; these communicative modes are discussed as code-switching, code-mixing, and translanguaging in the literature (for a critical review, see Treffers-Daller, 2024). The other two enabling conditions were to counter two pedagogical practices that regulate and stifle language use: (a) a monolingual rule that talk must be in no language other than the school language and (b) the shaming and humiliating of children when their talk is in a variety other than the privileged variety. Rejecting a monolingual rule, accepting code-switching, and rejecting shaming practices were seen as essential when applying any of the principles in Table 1 in multilingual contexts. For example, the principle of "guide narrative production" through "providing opportunity to communicate for an audience" could not be restrictive if the aim was to support oral language development. In other words, during a presentation by child to an audience such as story retelling to the peer group or visitors to the class, the enabling conditions would be to accept code-switching in the narration, not penalise if the narration was in part or completely in the home language, and not shame the child for speaking in a particular language variety.

Taken together, one use of our evidence synthesis is for intervention development. In this paper, we went further. Our aims were two-fold: to map teacher professional knowledge alongside this evidence synthesis, and to use insights from the mapping exercise to develop a framework for supporting teachers.

### **The current study**

We examine teacher professional knowledge in India where many children and classrooms are multilingual. Aside from our interest in professional knowledge, a study on teacher knowledge is especially relevant for India given the local policy context. India's mainstream policy discourse has recently included the need for well-resourced interventions for literacy learning (Jhingran, 2023). This focus is partly due to innovations in the field (e.g., Jhingran, 2019; Nag, 2007, 2013), a National Education Policy (2020) focused on foundation learning, and an implementation plan at the local and national levels (National Initiative for Proficiency in Reading with Understanding and Numeracy [NIPUN], 2022). Many states in the country now have a daily *maukhik bhasha* period (literal translation: oral language lesson). These dedicated times within the school day are an excellent pathway to scale-up oral language interventions. Yet, there remain concerns that the new policy will be adopted but teaching practice will not change (Gupta, 2022). A further concern is unique to the multilingual landscape of the country: multiple studies show a privileging of certain languages of instruction both at the point of school entry, and earlier in early childhood education (e.g., Alcott et al. 2018; Sriprakash et al., 2023).

Of particular interest to this paper is the substantial number of children entering school with a home language other than the language of instruction, and the multiple home languages in many classrooms (e.g., Nag & Arulmani, 2015). One characterization of such classrooms across multiple states in India is of "rote memorization and copying, passive children, little focus on thinking and reasoning, lack of support to struggling readers, and classroom instruction [that] does not include students' home languages" (LLF Annual Report, 2000-2021, Figure 1). In this paper, we refer to this pattern of teaching practices as business-as-usual. In parallel, there are examples of successful at-scale early literacy interventions such as the Talk—Hands on—Text—Publish approach (The Promise Foundation, 2016; Nag et al., 2022) and the four block model (Language and Learning Foundation, 2016; National

Curriculum Framework–Foundation Stage, 2022). However, these interventions do not focus on structured support for oral language. There is therefore a need for a framework that can help teachers to support children’s oral language development as well.

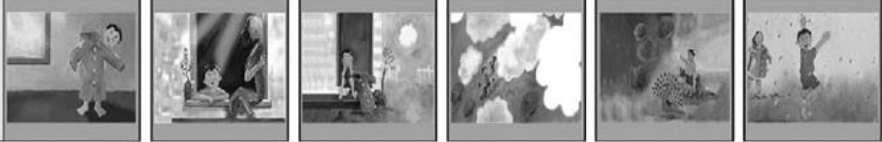
To develop such a framework, we conducted two studies asking (1) How do teachers explain their teaching for children’s oral language development? (Study 1a). And (2) What do teachers say about a mainstream intervention based on recommended practice? (Study 1b, description of intervention below). The studies received approval from the University of Oxford (CUREC R63616/RE002; RE003; DREC EDUC\_C1A\_23\_233) and The Promise Foundation (India; 11-11-2021).

We focused on sites with a multilingual population both historically and following more recent internal migration (Study 1a: North India—Delhi, Kurukshetra, Gurugram and South India—Mysore, Bangalore, Udupi, Kundapura; Study 1b: a district in western Haryana bordering Rajasthan and Punjab in North India). Inclusion criteria for both studies were teachers for 5- and 6-year-olds from low-income homes and in multilingual classrooms. For example, children’s home languages in Study 1b were Hindi, Punjabi, Bagri, Haryanvi, and Bihari. Recruitment was through direct emails to school heads or the education bureaucracy, and for Study 1a through snowball sampling. Consent was first sought from the institution and then the participating teachers.

Study 1a examined teacher explanations of their teaching for children’s oral language development. Teachers implemented state- and school-level mandated curricula using a range of practices. Some, but not all, may have fit into a business-as-usual classroom. Study 1b examined teacher views and confidence ratings after implementing seven weeks of a nine-week program based on recommended practices (Table 1). The intervention was co-produced in Hindi (a major language of India) by the lead author and a working group of practitioners

with the second and third authors. Participating teachers named the intervention *Sanjhe Bol*, a cognate phrase meaning “Talk Together” in Hindi, and the dialects and languages of the study site. The program was delivered to the whole class (20 intervention and 19 wait-list control schools, class size ranged from 6 to 54 children, median age = 5.6 years,  $N = 979$  children). Each week was structured around a central story with a problem-resolution story line. The program echoed the approach of a week-wise thematic curricula used in public preschools in the country. Figure 1 gives the weekly plan for this intervention.

**Figure 1.** Implementation details structured around weekly stories with a problem-resolution storyline<sup>1,2,3</sup>

Sample Story			Session duration: 20 minutes
Mainstream	Day 1	Questions before story and first reading with prediction question.	One additional language activity (e.g. vocabulary games, sentence completion tasks, poems and songs linked to story theme)
	Day 2	Second reading with closed and open ended questions on events on the page and linking to daily life, general knowledge or fantasy.	
	Day 3	Third reading with synthesis questions about setting, character, initiating event, attempts, resolution, and emotion states	
	Day 4	Quick reading and child retell	
	Day 5	Child retell	
	Day 6	Catch up time and extended activity such as role play of story characters	

<sup>1</sup>*Red raincoat* (2022); storyline is a new raincoat and a daily wait, until one day the rains arrive. <sup>2</sup>The story panel was available to each child as a picture strip to refer to during individual story retell activities. <sup>3</sup>For page layouts to support question-answer activities see Supplementary Digital Content, Figure 2.

## METHOD

### Participants

**Study 1a.** Seventy-two teachers participated in qualitative interviews structured around a vignette titled *Suma and the workshop on speaking skills* (co-produced by several of the authors and a working group of practitioners; see Supplemental Digital Content [SDC], Figure 1). The vignette was available in three languages (Hindi, Kannada, English). Teachers chose the language they preferred and were paired with interviewers fluent in at least two of the three languages and some local languages or dialects. In the end, most interviews were held in Kannada and Hindi, with limited paraphrasing either in a regional dialect or one of three local languages (Tulu, Konkani, Punjabi). Following consent to audio record, open-ended questions guided the qualitative interview protocol while allowing some flexibility in topic coverage (Rubin & Rubin, 2012). Research assistants received training through an online qualitative interviewing course and a three day in-person practice session. Transcriptions of audio recordings of interviews went through two rounds of independent checks.

**Study 1b.** All 20 implementing teachers filled out a semi-structured questionnaire after seven weeks of intervention delivery. The questionnaire included open-ended questions asking for views on program features (e.g., Which components worked well?) and confidence ratings on a three-point scale for programmatic and process areas (e.g., conducting a discussion on questions related to the week's story on Day 3; Tyagi et al. 2023).

### **Inductive thematic analysis**

A reflexive approach was adopted (Braun & Clarke, 2006) to map professional knowledge from interview transcripts (Study 1a) and questionnaires (Study 1b). Coders were postgraduates with varied specializations including early childhood education, digital and social change, social design, social work, speech and language therapy, and psychology. All had prior experience in the specific school sectors sampled in the studies. Coders fluent in the

language(s) of a given transcript were assigned the task of thematic analysis. Initial training was with six transcripts and two questionnaires. Four coders for Study 1a and two for Study 1b independently suggested codes in weekly meetings until the final codebook was developed. Coders returned to each transcript/questionnaire following every update of the codebook. Discrepancies in coding were resolved within pairs or with the first author as arbitrator. Coder diversity brought a level of reflexivity to codebook development, arguably allowing for a triangulation of perspective informed by individual disciplinary backgrounds (Attia & Edge 2017).

## RESULTS

### Study 1a: Teacher explanations of their teaching

An inductive thematic analysis was conducted on teacher explanations for the question “*What are some of the ways in which a child’s speaking skills can be built up?*” Key words and phrases linked to classroom activities were first extracted and then grouped into activity types and their purposes (for the full code list, see SDC, Table 1). Three themes emerged from the purposes found across activity types; each is described below with one illustration.

#### *Theme 1: Supporting oral language development*

One set of purposes was to build component skills of language such as vocabulary and narrative expression. Other purposes were linked to the communicative purposes of language and for new language learning. Some explanations about decisions related to teaching included the need to persist to meet a purpose, as in this excerpt:

ಅದನ್ನೆ ಪದೇ ಪದೇ ನಾವ್ ಮಾತಾಡ್ತಾ ಇದ್ದೆ, ಮಗು “ಓ! ನಮ್ ಮಿಸ್ (Miss)  
ನಾನೇನೇ ಹೇಳ್ತಿದ್ರೂ ಒಪ್ಪೊಂತಾರೆ, ನಾನು □□□□□□ ಕೇಳ್ತಾರೆ ಅಂತ ಒಂದ್ ದಿನ

ಸುಮ್ಮೆ ಇರುತ್ತೆ, ಎರಡು ದಿನ ಸುಮ್ಮೆ ಇರತ್ತೆ ಆಮೇಲ್ ಆಟೋಮೇಟಿಕ್ (automatic) ಆಗಿ ತಾನೇ ಮಾತಾಡ್‌ದ್ ಕಲಿಯತ್ತೆ.

If we keep **repeatedly speaking** with the child, the child will start thinking, ‘Oh! My teacher will listen to whatever I say, even if I speak wrong’. At first, they may remain quiet for a day or two, but after that they will automatically learn to talk [hold a conversation] by himself. (SBH, teacher in a peri-urban Government Model Pre-Primary School, emphasis added)

### ***Theme 2: Supporting general outcomes***

Teacher explanations also referenced general learning (e.g., for building memory) and supporting select groups of children. Another purpose was to support a positive emotional and motivational outcome (e.g., positive class climate). An example of supporting class climate is captured in the aim to integrate children into class processes in the following excerpt:

उनके रोल प्ले [role play] करने की जो। या पोयम [poem] को दुबारा से रिपीट [repeat] करके अपने शब्दों में सुनाना है। या, कहानी को अपने शब्दों में सुनाना है। या, उनकी जो लोकल [local] कहानियाँ हैं, या लोकल [local] गीत है जो उनसे सुनें जाते हैं। तो ये सारी सारी ऐक्टिविटी [activity] उनको बोलने का अवसर प्रदान करती है, और बहुत फायदेमंद होती है क्योंकि **बच्चा इनसे जुड़ जाता है।**

We do role play with them. Or, after repeating a poem, they have to say in own words. Or, say stories in own words. Or, share their local stories, or local songs. So, all these activities bestow them with opportunities to talk, and this is really beneficial because **through these the child gets integrated** [into the group]. (PNM, teacher in an urban Government Model Primary School, emphasis added)

### ***Theme 3: Standardising child language to a privileged variety***

The focus here is on teaching the "right" language. Sometimes the explanations appeared to refer to articulation difficulties, and sometimes to dialectic differences. An example of standardising language use is the purpose of teaching the "correct" pronunciation:

उनको **सही शब्द बोलने** के लिए, हम बारबार उस चीज़ को, बारबार दोहराएँगे। एक शब्द को चार से पाँच पाँच बार दोहराएँगे। यह बच्चा बार बार दुहराता है, जब फिर भी ग़लत बोलता है तो हम उसको करवाते ही रहते है।

Make them **say the right word**, we repeatedly say that thing, say it over and over again. We will repeat a word four to five times. This is what the child repeats and when the child still says it wrong, then we get him to keep doing it. (HNA, teacher in a peri-urban Government Primary School, emphasis added)

A further theme-wise sorting of purposes of classroom activities provided an indication of professional knowledge for supporting oral language development (see Table 2). Several purposes to directly support oral language development appeared (Theme 1), but mentions were scattered and considerably fewer. Instead, supporting general outcomes (Theme 2) was mentioned more often, and within this, the affective-motivation purposes (for positive classroom climate, to boost self-confidence) were the most frequent. Thus, although a range of classroom activities were collectively described by the 72 teachers, the predominant focus was on process factors rather than to build up the component skills of oral language.

**Table 2.** Professional knowledge: The stated purposes of classroom activities for oral language development presented by theme and number of mentions

Stated Purposes of Classroom Activities	Mentions Across 12 Activity Types
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	(To indicate mentions of identical or with near identical language: ** >5 mentions, * between 2 and 4 mentions, & no asterisk = 1 mention)
Theme 1: Supporting oral language development	
To build vocabulary	Improves vocabulary*
To build knowledge of complex sentences	Improves sentence quality, helps improve grammar <sup>a</sup>
To build language quality	Improves language quality*
For word recognition	Improves word recognition*
For narrative expression	Spoken and written expression, builds imagination, improves creativity
For reading and listening comprehension	Helps connect ideas better, promotes conceptual understanding, improves comprehension*
For communicative language	Useful for daily language use, for exposure to daily life language
For new language learning	Exposure to different languages, encourages new language learning
Theme 2: Supporting general outcomes	
To boost self confidence	Increases child's self-confidence**, increases confidence in subject matter**, for overall child development
For positive classroom climate	To gain child's trust, promotes positive class climate (e.g., gives a sense of happiness**), removes fear of teacher; promotes friendly teacher-child relationship, improves peer communications/relations
To improve concept learning	Improves memory, learns more quickly

For socio-emotional learning	To understand story characters (their nature, emotions, personalities), helps identify and express emotions
For silent children	Encourages silent children**, provides opportunities to talk
To individualise teaching	Personalizes subject matter, personalizes classroom activities
Theme 3: Standardise child's language use to a privileged variety	
To standardize language use	To teach "correct: pronunciation (removing dialect variation and non-native variation), to use the "right" language

Note: <sup>a</sup>The Hindi/Kannada word mentioned is व्याकरण /ವ್ಯಾಕರಣ (vyākaraṇ/a) and is likely about formal teaching of grammar rules although the nature of explicit teaching was not elaborated.

### Study 1b: Teacher views after implementing recommended practice

After implementing recommended practice for seven weeks, most teachers described activities and materials as coherently linked and with playful elements. On questions about appropriateness of programmatic elements, the rich illustrations, diversity in story scripts, multi-episode narratives, and thematically linked word sets were provided as examples of age-appropriate content. A minority recognized the following as also age-appropriate: the use of predictive and open-ended questions during the first and second reading of stories, providing space for child retelling, and asking children to talk about their thinking. One teacher recognized the aim of implicit learning, describing the lessons as “unobtrusive” (“अप्रत्यक्ष रूप”, AA, teaching in a government school). All teachers reported the intervention's success in improving engagement and participation. A thematic extraction of teacher explanations showed two sets of factors that supported these positive outcomes: (a) programmatic factors: story-based lessons, use of repetition, multiple story-linked language activities including use of poems, question-answer and discussion-based lessons, and content linked to children's prior knowledge, and (b) process factors: the greater number of joint

activities and peer-to-peer talk compared to teacher-led activities, the drama brought by a stories-based curriculum, the guidance when children tried rich language, and the child's own improvements in (1) expressing more about their thinking, (2) oral language skills, (3) persistence, (4) taking risks to try and express themselves, and (5) reduced fear to talk.

Most teachers reported being confident with delivery of the songs and poems that were linked to the weekly story content, using picture strips/books, and managing children's answers to direct questions. Confidence was less for maintaining the intended focus in each successive round of story reading and activities using story vocabulary. The biggest challenge was supporting child language production and especially managing the range of answers to open-ended questions and during child retelling. Scaffolding children for retelling of event sequences was also reported to be difficult. Further analyses are in SDC, Figure 3.

Although an analysis of child outcomes is outside the scope of the current paper, two sets of measures are available from the intervention: teachers' ratings of a self-selected list of children and child assessment on standardised language measures. Teachers reported a substantial improvement in taught vocabulary, classroom climate, and child engagement, enthusiasm, and excitement. Other reported improvements included children "expressing more", "more confident to speak", "using more 'good' language", and "better pronunciation". Two sub-groups were reported as gaining the most, silent children and L2 learners. However, compared to the wait-list control group, the reported gains in the intervention group did not translate into a statistically significant difference in performance on standardized tests (Roque-Gutierrez et al., in preparation). This picture of no change on standardized measures alongside improvement in classroom quality measures is not unusual (e.g., Hamre et al., 2012).

## DISCUSSION

Supporting oral language at school entry is important for later child attainments. Of particular interest is the global need to document how best to support oral language in particularly diverse linguistic contexts. One aim of this paper was to map teacher professional knowledge to support oral language development alongside an evidence synthesis of recommended practice. In Study 1a, this was done by examining teaching activities. We found depth and diversity in teacher explanations on the activities they chose, and together they provide a first insight into what may be driving teaching decisions and why some aspects are prioritized. Supporting child talk was seen to serve a motivational-affective purpose more than the cognitive-linguistic purposes implicit in research-informed recommended practices. Giving children the opportunity to talk was seen as contributing to a positive classroom climate and boosting confidence, but its value for directly promoting oral language development was less recognized. Importantly, while most recommended practices were not new to teachers, they were not frequently mentioned. Here, the pattern of mentions of different purposes across activity types could be taken as an index of the local social-cognitive environment, with more mentions suggesting preferred practices.

In Study 1b, we examined what teachers said after implementing a mainstream oral language intervention based on recommended practice. Their professional judgement was that program components were age-appropriate and effective in maintaining student engagement and enthusiasm. Confidence ratings were, however, low for other areas such as how to guide narrative production. Teachers' dilemmas related to managing open-ended questions and supporting extended talk. In addition, teachers' explanations on what supported child engagement during the intervention showed remarkable overlap with the research-informed assumptions of the intervention. Examples of overlap are a recognition of the enabling roles of wait time and guided narrative production.

## **Standardized language use**

The evidence base suggests that language may be strengthened via implicit learning, priming, and practice through teacher role modelling and child retelling. In line with this, we developed an intervention that did not explicitly aim to correct children by drawing attention to what was said poorly or where there was an error (Study 1b). However, in Study 1a, teachers did speak of correction of children as a purpose with the stated aim to "correct" and make "right" both pronunciation and general language use (Theme 3, Table 2). While correction behaviors can have positive effects on language development (e.g., Dickinson & Porsche, 2011), these effects are likely related to the tone of delivery. If correction turns to shaming and humiliating, leading to certain varieties of language being stigmatized or simply silenced, then the outcomes are unlikely to be positive. Shaming the child is a concern not only for the immediate harm this may cause but also the longer-term alienation that can lead to school dropout (Nag, 2023). Hence, one barrier to effective implementation may be the stated purpose of using language activities to standardize language use to a privileged variety.

## **A framework for supporting teachers**

The foregoing summary of findings from the teacher data and the mapping exercise with recommended practice and the overlaps and gaps identified between the two, provide insights that may be used to develop a framework for supporting teachers. The data suggest that a coaching and mentoring strategy, at least in the sites we studied, is not so much about introducing recommended practices as if they are new but rather to bring teaching ideas that are in the margins into more regular implementation. One approach to meaningfully take theoretical propositions derived from research (the recommended practices) to teachers is to thus build a meta-awareness about what is already available and to encourage their flexible use (after Burn et al., 2023, and the teacher education approach of "practical theorizing").

We propose a heuristic framework named Adopting Quality for School Readiness (AQSR) that draws together the recommended practices from the empirical literature and the professional knowledge from two teacher studies. The AQSR<sup>3</sup> framework is in four sections. First is recognizing training needs. This section draws on training needs and child characteristics identified in the literature and Study 1b. This part of the framework requires teachers to rate their confidence for different oral language activities and a judgement of the needs of children in their class. This exercise is aimed to help identify what to prioritize in teaching. Second is identifying teaching targets. Here, the full range of affective-motivational and cognitive-linguistic targets of interest to the teacher is included. The entries are informed by findings from Study 1a and the evidence synthesis. Third is identifying quality language-supporting teaching practices to address the teaching targets. The list of teaching practices is divided into *provide and demonstrate* sections that are related to language exposure and *provide and guide* sections to intentionally support children's language production. Last is planning sessions. This section includes the time given to teach and what content may be used, and these details are drawn from teacher feedback in Study 1b. The section offers flexibility in implementation using either teacher-selected storybooks and expository texts or already-prescribed textbooks and lessons plans. The flexibility in text resources is because AQSR focuses on how the content is delivered, and how to promote good practices in micro-elements of the talk that is at the heart of a teaching-learning interaction. A blank template of the framework is available in SDC, Figure 4.

### ***Teacher self-reflection***

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<sup>3</sup>AQSR may be pronounced /aksar/; “aksar” in Hindi-Urdu is an adverb of frequency and invokes the often and regularly repeated implementation of the practices that underpin the framework.

Figure 2 provides an example of teacher self-reflection using the AQSR framework. Two areas of low confidence were identified and the teaching targets and practices flow from this. The template shows (a) the training needs evaluation (low teacher confidence to guide children to use rich language alongside rating children in class as having low confidence to speak), (b) the teaching targets (build narrative expression and boost child's confidence), (c) the practices chosen to meet the teaching targets (5 to *provide and demonstrate* and 5 more to *provide and guide*) and (d) the time run and content. Another teacher with the same training needs could pick another set of practices, type of teaching content, and duration for delivery to meet their teaching targets.

### ***Coaching and mentoring***

There is some indication that teaching practices that provide opportunities for child talk and wait time are more easily adopted at scale (e.g., Ingram & Elliot, 2015; Justice et al., 2018; Wassik & Hindman, 2018). We found partial confirmation about these practices being judged as easier to implement, with fresh insights into the micro-teaching skills that still need coaching and mentoring. While teachers reported confidence with providing more opportunities for child talk, confidence was lower regarding how to engage with the child talk after an open-ended question or during a longer narration. Our data also provide indications of how language privilege and sociolinguistic processes may play out in the classroom. These will be important to acknowledge during teacher coaching and mentoring. Finally, a particular challenge was scaffolding children for retelling of event sequences. Another particularly difficult task reported in the literature is for teachers to change the grammatical complexity of their own language to ensure *appropriate* recasting and extension of child language (e.g., Justice et al, 2018). Teachers did not talk about responsively changing their language as an area of challenge, but if teachers need support to reflect on this line of

enquiry, then the AQSR framework may allow for guided reflection on how to be a language model for children irrespective of the pattern of a teacher's own spontaneous language use.

### ***Flexibility built into the four sections of AQSR***

The framework allows choice in what may be prioritized. At the level of teacher support, for example, an area of least confidence may become the focus of coaching. But it is also possible to pick an area with a relatively higher confidence rating because working on this is less anxiety-provoking for the teacher. At the level of the oral language intervention, there is flexibility in the content and materials chosen for lessons, and in what will be provided for quality language exposure and child language production in class. Such implementation flexibility is essential because contexts vary, for example, in class size, material resources, and what is valued and by whom. However, several ethnographies describe teachers as not having the mental space or time to make implementation decisions in daily practice (e.g., Sriprakash et al., 2009). Teachers implementing our nine-week programme (Study 1b) also spoke about constraints because of multiple roles and competing demands on their time (SDC Figure 3). Thus, a potential challenge for AQSR is for teachers to have the space to pick, practice, and update priorities. Further challenges are linked to teachers knowing (a) what-links-to-what (e.g., what is needed to scaffold child retelling?), (b) what quality implementation looks like (for entries in the *provide and demonstrate* and *provide and guide* sections), and (c) what is age-appropriate when introducing complex words and sentences. It will therefore be important to develop teacher resources (e.g., video samples, suggested word lists) and a coaching and mentoring cadre who can explain what-links-to-what, demonstrate quality implementation, and guide the selection of materials and activities.

Figure 2

Example of a completed Adopting Quality for School Readiness (AQSR<sup>1</sup>): A framework for coaching, mentoring, or self-reflection.

Step 1: Recognising Training Needs (Entries with lower ratings need more attention.)	Rate your level of confidence (1 low to 5 OK to 5 high)	Read to children 5	Manage answers to direct questions 5	Manage answers to open ended questions 3	Conduct activities with story vocabulary or topic vocabulary 5	Bring focus on complex sentences	Guide to try rich language 1	Scaffold child retelling for event sequence or idea sequence 3
	Rate the children in your class (1 low to 5 OK to 5 excellent)	Confidence to speak 1	Make the effort to speak 3	Engage with the lesson 5	Express their thinking	Settled and listening 5	Amount of joint teacher-child talk	Amount of peer-to-peer talk 3
Step 2: Identifying Teaching Targets (All targets are important but select targets to improve low areas from Step 1.)	Pick the targets you want to focus on (select one or more)	<input type="checkbox"/> Build vocabulary	<input type="checkbox"/> Build knowledge of complex sentences	<input checked="" type="checkbox"/> Build narrative expression	<input type="checkbox"/> Build listening comprehension	<input type="checkbox"/> Build communicative language	<input type="checkbox"/> Support word recognition (Essential: exposure to print, practice with decoding)	<input type="checkbox"/> Individualise teaching
		<input type="checkbox"/> Positive classroom climate	<input checked="" type="checkbox"/> Boost child's self confidence	<input type="checkbox"/> Improve concept learning	<input type="checkbox"/> Support socio-emotional development	<input type="checkbox"/> Focus on the silent child	<input type="checkbox"/> Focus on children who do not know the language	<input type="checkbox"/> Another purpose (add details)
Step 3: Identifying your Language-supporting Teaching Practices (Select practices that will support your targets from Step 2.)	Language-supporting practices Pick what you want to Provide and Demonstrate.	Provide well-linked lessons	Demonstrate use of appropriately complex words and well-structured full sentences	Demonstrate longer narratives	Language-supporting practices Pick what you want to Provide and Guide.	Provide wait time	Guide comprehension for coherent narration	Guide narrative production
		<input type="checkbox"/> Use the story as the core of the lesson. <input type="checkbox"/> Before reading story or topic ask meanings of complex words and/or teach new vocabulary. <input type="checkbox"/> Use question-answers soon after story reading or reading study topic. <input checked="" type="checkbox"/> Use questions to guide group talk. <input type="checkbox"/> Make lesson as consistently language rich as possible. <input type="checkbox"/> Link lessons to daily life.	<b>When</b> <input checked="" type="checkbox"/> After incomplete utterances by child. <input checked="" type="checkbox"/> After answers gathered for each question. <b>How</b> <input checked="" type="checkbox"/> Model rather than simply say child did not express well. <input checked="" type="checkbox"/> Use praise for approximately close language use.	<input type="checkbox"/> Model story retelling with story elements. <input type="checkbox"/> Model how to verbally reflect on ones own thinking about the story, a question, or a study topic. <input type="checkbox"/> Model rather than simply say child did not express well. <input type="checkbox"/> Model by using several different examples. <input type="checkbox"/> Prompt by using open ended questions. <input type="checkbox"/> Model and prompt use of same target vocabulary or sentence structures over several days.		<b>When</b> <input checked="" type="checkbox"/> During question-answer activities. <input type="checkbox"/> During story retelling activity. <input type="checkbox"/> During discussion on study topic. <input type="checkbox"/> During presentations to an audience. <b>Why</b> <input checked="" type="checkbox"/> Give time for children to plan before they say. <input type="checkbox"/> Give time for children to reconstruct what they want to say.	<input checked="" type="checkbox"/> Use questions to prompt thinking about story elements. <input type="checkbox"/> Use questions to prompt thinking about idea units. <input type="checkbox"/> Use questions to draw attention to target vocabulary. <input type="checkbox"/> Use questions to draw attention to sentence structures. <input type="checkbox"/> Use questions that prompt children to predict, summarise, clarify and further question.	<input type="checkbox"/> Give time for planning before child's narration, answer or retell. <input checked="" type="checkbox"/> Use props to support recall. <input checked="" type="checkbox"/> Use turn taking routines so all children get the opportunity to talk. <input type="checkbox"/> Use questions to extend thinking. <input type="checkbox"/> Use praise for approximately close language use. <input type="checkbox"/> Accept narration in the language the child is most comfortable in.
Step 4: Planning Class Sessions	Pick duration of the teaching plan (Duration may be in days, weeks, months or academic terms.)				For 2 weeks			
	Pick lesson content (Lesson may be linked to story books, chapters from textbooks or other content.)				Chapter 2 for week 1 and chapter 4 for week 2			

## **Future Research**

The two studies and our mapping exercise suggest areas for future research. For example, many open questions remain about barriers to uptake. At the individual level, some barriers may be more difficult to address than others (e.g., rejecting subtle shaming compared to introducing wait time), and there may be lower uptake of recommended practices among some groups (e.g., novice versus experienced teachers, native speakers of the school language versus multilingual teachers with knowledge of children's languages). At the system level, a key question is related to entrenched beliefs and social-cognitive environments. To examine beliefs, we demonstrate the value of listening to teacher explanations. These might differ across educational and multilingual contexts, and other factors such as types of pre- and in-service programs, language statuses, and value of child talk. While we chose a particular approach to evidence synthesis and documenting teacher preferences, a topic for future research is to fine-tune both methods. Also related to future research is the broader question of how else to value teacher insight. We propose that practitioners' professional insight and experience are essential to inform and shape what is researched. Future research would benefit from such a bidirectional link between researcher and teacher insight.

Our evidence synthesis is based on literature that, though current, covers only a small selection of language contexts. A wider evidence-base, especially from the linguistic and social-cognitive contexts of the Global South, is needed to evaluate recommended practices. Further, our proof-of-concept intervention used stories with a particular problem-resolution narrative structure. Future research may look at other narrative structures and expository texts and apply the proposed framework to other parts of the school day. This proposal to research language-related teacher practices across the curriculum and a wider application of the AQSR framework is based on evidence that language-supporting practices facilitate language

development whenever used during the school day (e.g., maths, science classes: Bowne et al., 2017; free play: Dickinson & Prosche, 2011).

Altogether, our paper contributes to the literature on oral language interventions for multilingual classrooms. We linked recommended practice from specialized literature and distillations of professional knowledge to inform communities of practice. The approach we describe has the potential to strengthen all child-centered interventions, but particularly those that aim to raise literacy attainments by strengthening oral language precursor skills for reading comprehension. We do this by focussing on how teachers may be well supported in their efforts

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Adopting Quality for School Readiness (AQSR): A Heuristic Framework  
using Recommended Practice and Professional Knowledge to Support Oral Language in  
Multilingual Classrooms

**Supplemental Digital Content**

**Figure 1**

The Vignette<sup>1</sup> used for Study 1a

**Suma and the workshop on speaking skills**

Suma is a preschool teacher. She teaches children many songs and rhymes. She helps children memorise the songs and rhymes by repeating them many times. She was recently deputed to attend a teacher training workshop. Here she learned that children's speaking skills provide a foundation for learning in school. She learned that creating opportunities for children to speak in class is important. The teacher trainer said there should be many conversations where the teacher gives children an opportunity to express themselves. The trainer conducted role plays to show how teachers can give and take turns with children in a class conversation.

These are new ideas and Suma is not sure how she can stimulate speaking skills in her class. In fact, Suma is not even sure if speaking activities are correct for the Indian context.

<sup>1</sup>A total of eight vignettes were presented in a random order. Teachers were given approximately 20 minutes to read and reflect on the questions and vignettes before the interview began. Each interview lasted between 45 and 90 minutes.

Figure 2

Page layout of story books from the intervention delivered by teachers interviewed in Study

1b



Notes:

One story was the content hub for each week. Each day's reading was followed by different question types. Stories provided the week's targeted vocabulary and the theme for additional purposeful texts.

Story books used folded with picture pages child facing and text pages teacher facing.

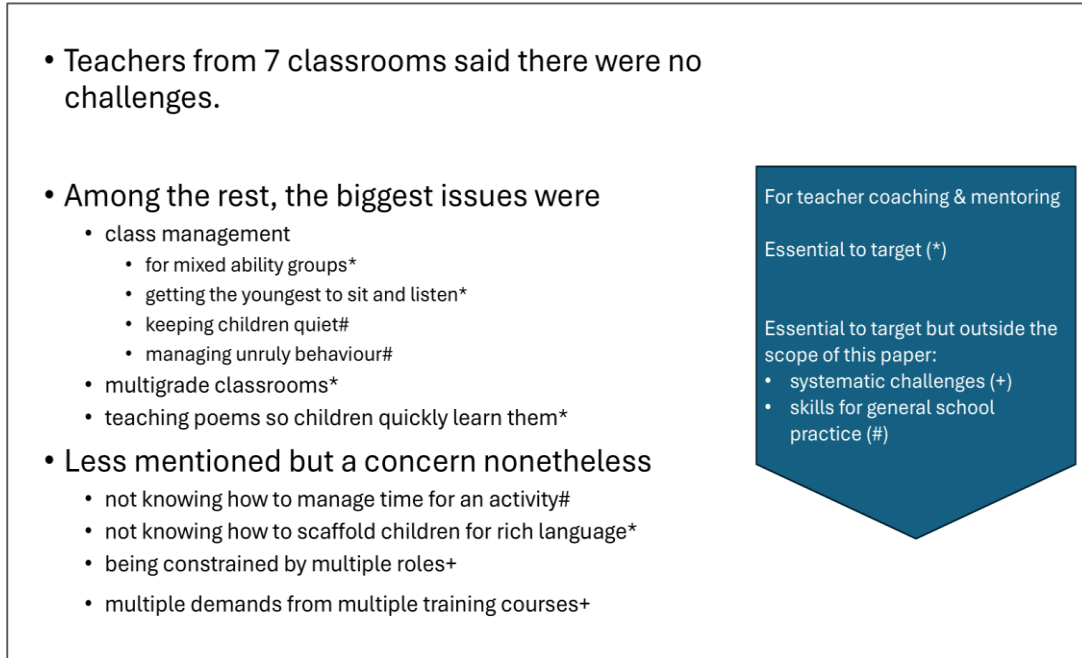
Story script is in black. Questions are in black with answer scripts for direct and synthesis questions in green, and teaching tips especially for predictive and open-ended questions in red.

Story: Kasturia, K. (2022). *Red raincoat*. Pratham Books. Hindi re-leveling by C. Mathur, N. Kapoor, A. Tyagi, A. Pydah, B. Kala, & S. Nag.

**Figure 3**

Teacher perspective on the challenges to implementation of the Study 1b intervention

(*N* = 20 classrooms)



**Table 1**

Study 1a: Teacher-named activities grouped by activity type and purpose ( $N = 72$  teachers)

Activity Type	Classroom Activity	Purpose
Picture and/or object talk	<ol style="list-style-type: none"> <li>1. See and describe</li> <li>2. Link and make story</li> <li>3. Extend to own experience</li> </ol>	<ol style="list-style-type: none"> <li>1. Increases child's self confidence</li> <li>2. Improves vocabulary</li> <li>3. Increases confidence in subject matter</li> <li>4. Helps improve grammar</li> </ol>
Word work (related to vocabulary instruction)	<ol style="list-style-type: none"> <li>1. Supply new words</li> <li>2. Elicit new words</li> <li>3. Picture-word (print) matching</li> <li>4. Word games</li> <li>5. Elaborate on new words</li> </ol>	<ol style="list-style-type: none"> <li>1. Increases/improves vocabulary</li> <li>2. Useful for daily language use</li> <li>3. Improves language quality</li> <li>4. Improves sentence quality</li> </ol>
Questioning focused	<ol style="list-style-type: none"> <li>1. On prior knowledge</li> <li>2. On a single topic</li> <li>3. On multiple topics</li> <li>4. To elicit new words</li> <li>5. Using direct questions (pictures, objects)</li> <li>6. Using extended questions (pictures, objects)</li> <li>7. Using direct questions (story/chapter)</li> <li>8. Using extended questions (story/chapter)</li> <li>9. Using questions based on child's work</li> <li>10. Unspecified</li> </ol>	<ol style="list-style-type: none"> <li>1. Increases child's self-confidence</li> <li>2. Increases confidence in subject matter</li> <li>3. To gain child's trust</li> <li>4. Helps build vocabulary; improves vocabulary</li> <li>5. Improves language quality</li> </ol>
Peer-to-peer conversations	<ol style="list-style-type: none"> <li>1. Multilingual talk</li> <li>2. Structured talk (pick and speak, debate)</li> <li>3. Unstructured talk (conversations during play)</li> <li>4. Unspecified</li> </ol>	<ol style="list-style-type: none"> <li>1. Encourages silent children</li> <li>2. Provides opportunities to talk</li> <li>3. Helps students gain confidence to participate</li> </ol>
Linked to reading and writing	<ol style="list-style-type: none"> <li>1. Akshara teaching</li> <li>2. Essays and written work</li> <li>3. Use of library for reading</li> </ol>	<ol style="list-style-type: none"> <li>1. Written expression</li> <li>2. Word recognition</li> </ol>

Story-based (child retells)	<ol style="list-style-type: none"> <li>1. Pictures to recollect story</li> <li>2. Retell with props</li> <li>3. Retell without props</li> <li>4. Unspecified</li> </ol>	<ol style="list-style-type: none"> <li>1. Builds imagination</li> <li>2. Builds confidence in speaking</li> <li>3. Improves comprehension</li> <li>4. Promotes positive class climate (e.g., gives a sense of happiness)</li> <li>5. To encourage silent children</li> </ol>
Story-based (child listens)	<ol style="list-style-type: none"> <li>1. Auditory</li> <li>2. With props</li> <li>3. With actions</li> </ol>	<ol style="list-style-type: none"> <li>1. Increase confidence in subject matter</li> <li>2. Promote positive classroom environment</li> </ol>
Role-play based	<ol style="list-style-type: none"> <li>1. With story characters</li> <li>2. With theatre characters</li> <li>3. With poetry characters</li> <li>4. Mime based</li> <li>5. With real life events/persons</li> </ol>	<ol style="list-style-type: none"> <li>1. Facilitates understanding characters (their nature/emotions/personalities)</li> <li>2. Improves peer communications/relations</li> <li>3. Helps identify/express emotions</li> <li>4. For exposure to daily language</li> <li>5. To learn use of correct language</li> </ol>
Repetition- based/choral	<ol style="list-style-type: none"> <li>1. Rhymes/songs/poems</li> <li>2. Word pronunciation</li> <li>3. Times tables</li> <li>4. Unspecified</li> </ol>	<ol style="list-style-type: none"> <li>1. Helps learn more quickly</li> <li>2. Helps comprehension/connects ideas better</li> <li>3. Improves memory</li> <li>4. Improves word recognition</li> <li>5. Helps in pronunciation</li> </ol>
Across the curriculum	<ol style="list-style-type: none"> <li>1. In other subjects</li> <li>2. During class experiments</li> <li>3. During games</li> <li>4. During outdoor visits</li> <li>5. During child-led observations</li> </ol>	<ol style="list-style-type: none"> <li>1. Promotes conceptual understanding</li> <li>2. Improves creativity</li> </ol>
Multilingual talk	<ol style="list-style-type: none"> <li>1. Children's home languages</li> </ol>	<ol style="list-style-type: none"> <li>1. Exposure to different languages</li> <li>2. Encourages new language learning</li> <li>3. Personalizes subject matter</li> <li>4. Personalizes classroom activities</li> </ol>
Teacher- student conversations	<ol style="list-style-type: none"> <li>1. Classroom banter</li> <li>2. General <i>charchaa</i> (discussion)</li> <li>3. Specific topic</li> <li>4. Unspecified</li> </ol>	<ol style="list-style-type: none"> <li>1. Removes fear of teacher; promotes friendly relationship between teacher and child</li> <li>2. Builds vocabulary</li> <li>3. Increases comprehension</li> <li>4. Creates positive classroom climate</li> <li>5. Builds confidence/for overall child development</li> </ol>

**Figure 4** Adopting Quality for School Readiness (AQSR<sup>1</sup>): A framework for coaching, mentoring, or self-reflection<sup>2</sup>

Step 1: Recognising Training Needs (Entries with lower ratings need more attention.)	Rate your level of confidence (1 low to 3 OK to 5 high)	Read to children	Manage answers to direct questions	Manage answers to open ended questions	Conduct activities with story vocabulary or topic vocabulary	Bring focus on complex sentences	Guide to try rich language	Scaffold child retelling for event sequence or idea sequence
	Rate the children in your class (1 low to 3 OK to 5 excellent)	Confidence to speak	Make the effort to speak	Engage with the lesson	Express their thinking	Settled and listening	Amount of joint teacher-child talk	Amount of peer-to-peer talk
Step 2: Identifying Teaching Targets (All targets are important but select targets to improve low areas from Step 1.)	Pick the targets you want to focus on (select one or more)	<input type="checkbox"/> Build vocabulary	<input type="checkbox"/> Build knowledge of complex sentences	<input type="checkbox"/> Build narrative expression	<input type="checkbox"/> Build listening comprehension	<input type="checkbox"/> Build communicative language	<input type="checkbox"/> Support word recognition (Essential: exposure to print, practice with decoding)	<input type="checkbox"/> Individualise teaching
		<input type="checkbox"/> Positive classroom climate	<input type="checkbox"/> Boost child's self confidence	<input type="checkbox"/> Improve concept learning	<input type="checkbox"/> Support socio-emotional development	<input type="checkbox"/> Focus on the silent child	<input type="checkbox"/> Focus on children who do not know the language	<input type="checkbox"/> Another purpose (add details)
Step 3: Identifying your Language-supporting Teaching Practices (Select practices that will support your targets from Step 2.)	Language-supporting practices Pick what you want to Provide and Demonstrate.	Provide well-linked lessons	Demonstrate use of appropriately complex words and well-structured full sentences	Demonstrate longer narratives	Language-supporting practices Pick what you want to Provide and Guide.	Provide wait time	Guide comprehension for coherent narration	Guide narrative production
		<input type="checkbox"/> Use the story as the core of the lesson. <input type="checkbox"/> Before reading story or topic ask meanings of complex words and/or teach new vocabulary. <input type="checkbox"/> Use question-answers soon after story reading or reading study topic. <input type="checkbox"/> Use questions to guide group talk. <input type="checkbox"/> Make lesson as consistently language rich as possible. <input type="checkbox"/> Link lessons to daily life.	<b>When</b> <input type="checkbox"/> After incomplete utterances by child. <input type="checkbox"/> After answers gathered for each question.  <b>How</b> <input type="checkbox"/> Model rather than simply say child did not express well. <input type="checkbox"/> Use praise for approximately close language use.	<input type="checkbox"/> Model story retelling with story elements. <input type="checkbox"/> Model how to verbally reflect on ones own thinking about the story, a question, or a study topic. <input type="checkbox"/> Model rather than simply say child did not express well. <input type="checkbox"/> Model by using several different examples. <input type="checkbox"/> Prompt by using open ended questions. <input type="checkbox"/> Model and prompt use of same target vocabulary or sentence structures over several days.		<b>When</b> <input type="checkbox"/> During question-answer activities. <input type="checkbox"/> During story retelling activity. <input type="checkbox"/> During discussion on study topic. <input type="checkbox"/> During presentations to an audience.  <b>Why</b> <input type="checkbox"/> Give time for children to plan before they say. <input type="checkbox"/> Give time for children to reconstruct what they want to say.	<input type="checkbox"/> Use questions to prompt thinking about story elements. <input type="checkbox"/> Use questions to prompt thinking about idea units. <input type="checkbox"/> Use questions to draw attention to target vocabulary. <input type="checkbox"/> Use questions to draw attention to sentence structures. <input type="checkbox"/> Use questions that prompt children to predict, summarise, clarify and further question.	<input type="checkbox"/> Give time for planning before child's narration, answer or retell. <input type="checkbox"/> Use props to support recall. <input type="checkbox"/> Use turn taking routines so all children get the opportunity to talk. <input type="checkbox"/> Use questions to extend thinking. <input type="checkbox"/> Use praise for approximately close language use. <input type="checkbox"/> Accept narration in the language the child is most comfortable in.
Step 4: Planning Class Sessions	Pick duration of the teaching plan (Duration may be in days, weeks, months or academic terms.)							
	Pick lesson content (Lesson may be linked to story books, chapters from textbooks or other content.)							

<sup>1</sup>AQSR may be pronounced as /aksar/; “aksar” in Hindi-Urdu is an adverb of frequency and invokes the often and regularly repeated implementation of the practices that underpin the framework. <sup>2</sup>Language-supporting teaching practices (from Step 3) are to be applied in conjunction with three enabling conditions for multilingual contexts: (a) accept code-switching, code-mixing and translanguaging in communications, (b) reject the monolingual rule that states that child and teacher talk must be in no language other than the school language, and (c) reject shaming and humiliating the child when their talk is in a variety other than the privileged variety.