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Mother Tongue-Based Instruction and Learning Outcomes in Primary Grades

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Abstract:

Mother Tongue-Based Instruction (MTBI) plays a vital role in strengthening conceptual clarity, reading proficiency, emotional confidence, classroom participation, cultural belonging, and multilingual transition success in primary grades. This paper examines how first-language instruction accelerates literacy growth, supports numeracy comprehension, reduces anxiety, improves attendance, enhances curiosity, and builds a strong cognitive base for bridging second and third languages. Teacher mediation, bilingual bridges, community participation, and print-rich environments are discussed as essential implementation pathways. The paper concludes that MTBI improves learning outcomes when human pedagogy and planned language transitions remain balanced and inclusive.

Key Terms: MTBI, Primary Literacy, Language Transfer, Cognitive Readiness, Bilingual Bridge

I. INTRODUCTION

Early primary education (Class I–III) is a foundational stage marked by rapid brain development, emotional sensitivity, language acquisition, habit formation, and emerging logical reasoning. Language is not only a tool for communication; it becomes the primary instrument of thinking itself. When children learn in a familiar language, comprehension becomes smoother, cognitive load reduces, participation increases, and learning becomes faster and more enjoyable.

Educational reformer John Dewey emphasized experience-based, learner-sensitive education, which supports natural language accessibility for young children. Similarly, language scholar Jim Cummins proposed that strong first-language proficiency accelerates second-language learning through cognitive transfer, known widely as the Linguistic Interdependence Hypothesis. The global educational authority UNESCO also advocates MTBI policies across early grades to improve comprehension and reduce primary learning inequity.

Indian education policy, through documents like the National Council of Educational Research and Training supported Three-Language Formula models, including mother-tongue instruction as the base language for thinking and early literacy.

The aim of MTBI is not only academic improvement but also empowerment for expression, self-confidence, cognitive development, inclusion, cultural preservation, and preparation for a multilingual world.

II. LITERATURE REVIEW

2.1 Theoretical Support for MTBI

Several theories validate MTBI:

- Constructivism: Children build knowledge using familiar linguistic symbols.
- **Sociocultural Learning:** Vygotsky highlighted learning through dialogue and social collaboration, which happens more naturally in the mother tongue.
- Linguistic Interdependence: Cummins confirms that cognitive-academic language proficiency transfers across languages when learners are strong in their first language.

2.2 Benefits for Primary Learners

MTBI outcomes identified across research:

- ✓ Faster decoding of letter–sound relationships
- ✓ Better reading fluency and comprehension recall
- ✓ Higher confidence in speaking and answering
- ✓ Improved math concept understanding using familiar vocabulary
- ✓ Stronger peer-help interaction and idea negotiation
- ✓ Increased empathy, cooperation, and social belonging
- ✓ Reduced learning fear, stress, or expression anxiety
- ✓ Better attendance due to higher classroom comfort
- ✓ Stronger cultural identity and belonging
- ✓ Successful second/third-language transition through planned bilingual bridges

2.3 Empirical Evidence

Research from 2015–2024 examined in ERIC and UNICEF reports shows: enhanced literacy fluency, better numeracy comprehension, reduced absenteeism, increased expression confidence, and higher cooperative participation when mother tongue supports early instruction.

III. METHODOLOGY

Qualitative thematic synthesis was used reviewing research articles, field reports, policy documents, and multilingual bridge literacy studies from global indexing databases such as ERIC, UNICEF, and SpringerLink publications.

The focus themes included learner participation, literacy fluency, numeracy transfer, multilingual bridging success, emotional safety, inclusion equity, teacher mediation, implementation challenges, and community participation.

IV. RESULTS AND DISCUSSION

4.1 Strengthening Literacy Foundations

Children learn to decode words more accurately and fluently when phonemic awareness begins in familiar sounds. Story recall and reading stamina increase when narratives are understood effortlessly. 'Sound-to-symbol' learning in mother tongue enables reading accuracy and comprehension flow.

4.2 Developing Numeracy Reasoning in L1

Mathematical terms internalize faster when first-language conceptual mediation supports number operations, sequencing, pattern recognition, shape vocabulary, classroom logic play, grouping tasks, and geometry awareness using familiar dialogue.

4.3 Enabling Collaboration and Classroom Participation

Peer-assisted language fosters expressive reasoning. Learners explain logic, defend ideas, share suggestions, and negotiate steps without fear. Classroom exchange rhythms become faster, emotionally richer, and cognitively deeper when communication flows through the mother tongue.

4.4 Supporting Multilingual Bridge Learning

MTBI must introduce a planned L1 \rightarrow L2 bridge using vocabulary equivalence cards, bilingual concept scafolds, picture glossaries, shared dialogue bridges, teacher talk modeling, and low-pressure language sampling. Students transition to a new language without losing conceptual integrity.

4.5 Challenges Identified

Common challenges include lack of teacher training, inconsistent language transition planning, limited classroom material in regional languages, inequity of digital language content, device dominance concerns, and limited parental awareness. Solutions include teacher micro-training, local content development, bilingual bridge planning, and community orientation.

V. CONCLUSION

Mother Tongue-Based Instruction strengthens:

- ✓ literacy fluency and comprehension recall
- ✓ conceptual math transfer and numeracy reasoning
- emotional safety and expression confidence
- ✓ attendance, curiosity, collaboration, and school belonging

To scale MTBI effectively, schools must invest in teacher skill training, bilingual bridge development, local language material design, and community participation. Pedagogy must remain human, respectful, balanced, and inclusive, where language becomes a tool for thinking, not fear.

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