



Harnessing the Power of AI for Home Learning

As families increasingly seek meaningful ways to support learning at home, artificial intelligence (AI) offers exciting opportunities to complement classroom experiences. When thoughtfully integrated, AI tools can reinforce learning, spark curiosity, and provide personalised, developmentally appropriate experiences that enrich a child's educational journey.

1. Extending Inquiry-Based Learning into the Home

Inquiry-based learning encourages children to ask questions, explore ideas, and construct knowledge through hands-on experiences. AI can bring this approach into the home by creating responsive environments that adapt to a child's interests.

For example, Miko 3, an AI-powered robot, engages children in conversations, answers questions, and introduces new topics—nurturing curiosity and independent thinking. Similarly, platforms like Khan



Academy Kids personalise lessons in literacy, maths, and science, supporting open-ended exploration.

2. Enhancing Bilingual Language Development

AI tools can provide immersive, interactive language experiences, helping families maintain consistent exposure to multiple languages.

Apps such as Lingokids offers engaging English-language games and stories, while iHuman Chinese uses AI to teach Mandarin through animated characters and

speech recognition. Tools such as Google Read Along provide real-time pronunciation support, and Miko 3 can tell stories in both English and Mandarin. Platforms like Ello further enhance comprehension through curated bilingual books and interactive quizzes.

3. Personalising Learning for Diverse Learners

Every child learns differently, and AI tools can tailor educational experiences to suit individual learning styles, interests, and developmental needs.



For instance, HOMER creates personalised learning paths covering reading, maths, and social-emotional development. Osmo blends physical play with AI-powered feedback, catering to visual, auditory, and kinesthetic learners—ensuring the right level of challenge and support.

4. Fostering Creativity and Play-Based Learning

Creativity and play are essential for early childhood development. AI tools can enhance these experiences by offering interactive platforms

that inspire imagination and exploration.

QuiverVision allows children to bring their drawings to life in 3D using augmented reality, while apps like Toca Life World simulate real-world environments where children can role-play, solve problems, and create narratives—supporting cognitive and social growth.

5. Empowering Parents

Through Progress Monitoring Parents play a vital role in their child's learning journey, and AI tools can strengthen this partnership by providing



real-time insights and personalised recommendations.

Platforms like ABCmouse offers detailed progress reports, while ParentPal and Kinedu provide expert tips, milestone tracking, and daily activity suggestions.

Communication tools such as ClassDojo and Brightwheel enable teachers to share updates and feedback, ensuring alignment between home and school learning.

Conclusion

Artificial intelligence, when used thoughtfully, can be a powerful ally in supporting inquiry, bilingualism, creativity, and emotional development at home. By selecting age-appropriate, educationally aligned tools, families can create personalised and engaging learning experiences that nurture confident, curious, and compassionate learners.

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