

A Framework for the Application of Artificial Intelligence in School Education: Understanding, Using, and Unleashing

KONG, Siu Cheung

The Education University of Hong Kong

May 26, 2025

Working Paper (not peer review)

Abstract

This study aims to investigate strategies for integrating Artificial Intelligence (AI) into school education. Facing the rapid development of AI technology and its potential impact on education, this study proposes a three-stage framework—"Understanding," "Using," and "Unleashing"—as a theoretical pathway to guide students in effective learning and thereby to unlock their potential as human beings. The "understanding" dimension focuses on fostering a conceptual understanding of AI technologies among students and teachers, ensuring informed engagement. The "using" dimension explores practical applications of AI to enhance efficiency and effectiveness of learning and teaching, such as through personalised learning. The final dimension, "unleashing," addresses the transformative opportunities AI in equipping future generations to create meaningful value as human beings while working alongside AI. This study emphasizes that AI should serve as an empowering tool, with the aim of fostering students to become independent and passionate thinkers, rather than leading to technological dependence. The goal of this study is to assist educators in systematically planning strategies for integrating AI into learning and teaching, thereby cultivating students' to be future leader in an AI-permeated society. The framework also highlights the challenges of utilising generative AI to enhance students' capabilities in education.

Keywords: AI in education; framework; passionate thinkers; school education; student potential; teaching strategies

Citation format:

Kong, S. C. (May 26, 2025). A framework for the application of artificial intelligence in school education: Understanding, using, and unleashing. The Education University of Hong Kong - Working Paper (not peer review). <https://www.aidcec.eduhk.hk/papers/3u>