

Digital Transformation in K-12 Education

Digital tools are transforming the world we live in today, as well as the one our students will lead tomorrow. In education, we've become familiar with many forms of digital technology and change. This includes laptops and pervasive Wi-Fi in classrooms, online courses and peer-to-peer collaboration, and real-time support for students' learning based on accessible data. And while these are exciting developments, only time will tell which ones will deliver real value to students.

Learning is organized in new ways with digital media. Ultimately, it depends on how the media is designed within an educational context. The internet, for example, is an obvious resource for education—supplementary to traditional learning—as a place where students can exchange ideas, build new relationships and share their knowledge with others, creating near-infinite opportunities for informal learning.

Digital learning can also support student's self-monitoring skills, cooperative learning, and diverse learning needs while focusing on activities and problems by integrating authentic materials and simulating learning processes.

Utilizing educational technology, educators have begun transforming instruction, assessments, and the overall concept of the classroom. These solutions empower teachers to be increasingly innovative in their teaching methods to improve student success and engage them like never before. And new technologies are poised to push this transformative wave even further.

Augmented and Virtual Reality can deepen and enhance teacher instruction while simultaneously creating immersive experiences to better engage students: bringing the outside world into the classroom and the classroom into the outside world. Virtual reality also has the potential to increase visual and technology literacy.

Improving the strength, reliability, and accessibility of the network is crucial for digital transformation and enabling teachers to manage online testing while allowing students to access video and other media-intensive content.

In the end, it's not digital technology that will transform education, but people: with digital technology serving as an effective tool to bring about a culture of learning.

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