

# Beyond technology: K-12 innovation

New digital tools for teaching and learning have been infused into almost every classroom in recent years.

However, to drive authentic innovation, K-12 leaders must prepare their network, educators and IT team for evolving requirements. Is your district ready?

## ACCESSIBILITY

**92%** of school principals have implemented a 1:1 device policy for students to have equitable digital access in school and at home.<sup>1</sup>

Along with providing those devices, schools must implement a digital education infrastructure with the scalability to offer unlimited accessibility.

## CONNECTIVITY

**63%**

of teachers say that to support new digital learning practices, they need stronger internet connectivity in their classroom that can accommodate high-bandwidth digital resources.<sup>2</sup>

While 74% of districts are now meeting or exceeding the FCC's recommended bandwidth goal of 1 Mbps per student,<sup>3</sup> teachers say it's not enough. K-12 IT leaders need to prepare for the continued demands that new education technologies will place on their networks.

## SECURITY

Ensuring cybersecurity and safety online are among the top three most important and difficult hurdles for the education system to address in 2024.<sup>4</sup>

K-12 is the most targeted industry for ransomware alone,<sup>5</sup> and yet only 19% of K-12 leaders said their state provided ample funding for cybersecurity.<sup>6</sup> K-12 institutions need to put advanced measures in place, such as a next-generation firewall, unified threat management, zero trust network access (ZTNA) policies and distributed denial of service (DDoS) protection, which can help safeguard against such attacks.

## Ready for what's next

The most important tech enablers for education systems to leverage in 2024 include:<sup>7</sup>

- 1 **Generative artificial intelligence (GenAI)**
- 2 **Analytics and adaptive technology**
- 3 **Rich digital ecosystems**

Connecting systems or digital environments can form powerful digital ecosystems for enabling student learning and supporting education administration. These interconnected systems of online and virtual spaces can span formal school settings and beyond.

## Digital education infrastructure that supports the needs of every student

Spectrum Enterprise® understands how challenging it can be to provide K-12 students with more personalized, hands-on and collaborative learning. To deliver on the promise of new teaching platforms and learning initiatives, you need scalable solutions that support evolving bandwidth and security requirements. We'll help you build a digital education infrastructure that accelerates new learning models and scales alongside your goals.

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1. "Beyond the IT Department: The Emergence of the CIO as a Digital Leader in K-12 Districts," Project Tomorrow, 2022.

2. Ibid.

3. "Connect K-12's 2023 report celebrates 74% of U.S. school districts now meeting FCC internet connectivity goal," Connect K-12, 2023.

4. "Driving K-12 Innovation: Hurdles, Accelerators, Tech Enablers," CoSN, 2024.

5. Frederick Hess, "The Top Target for Ransomware? It's Now K-12 Schools," Forbes, September 20, 2023.

6. "SEDITA 2023 State EdTech Trends Report," SEDTA, 2023.

7. "Driving K-12 Innovation," CoSN, 2024.

### About Spectrum Enterprise

Spectrum Enterprise, a part of Charter Communications, Inc., is a national provider of scalable, fiber technology solutions serving many of America's largest businesses and communications service providers. The broad Spectrum Enterprise portfolio includes [networking and managed services solutions](#), [Internet access](#), [Ethernet access and networks](#), [Voice](#) and [TV solutions](#). The Spectrum Enterprise team of experts works closely with clients to achieve greater business success by providing solutions designed to meet their evolving needs. For more information, visit [enterprise.spectrum.com](https://enterprise.spectrum.com).