# Kentucky's K-12 Digital Readiness

The teaching, learning, and administrative processes of Kentucky's 172 public school districts require a robust digital ecosystem now more than ever. To meet the teaching and learning demands of today and tomorrow, we believe this ecosystem should:

- ◆ Empower **personalized learning experiences** for students and staff
- ◆ Enable digital **communications and collaboration** models among all stakeholders
- ◆ Expand **data enhanced** decision making
- ◆ Ensure an experience that is protected through cutting edge **privacy and security** strategies

Digital Excellence for Teaching and Learning

A great digital learning environment requires a commitment to provide anywhere, anytime, always-on opportunity and access for students and staff. Strategies such as high speed fiber connectivity to every district, dense Wi-Fi coverage throughout buildings, 1:1 device assignment for students, and Bring Your Own Device (BYOD) policies for students and staff are being adopted across Kentucky to address the needs both on and beyond the school campus.
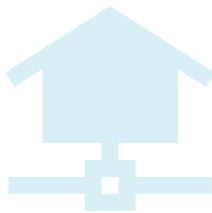
100%
of Kentucky K-12 public schools and district offices are connected by the most reliable, highest speed, and quality fiber internet services in the country.

99.1% of students have internet access for school work beyond the school campus

96.6% of students report internet access at home

School fiber internet total usage increased **+42%** over the past 24 months* while maintaining industry leading **99.98%** uptime.
*December 2023-December 2025

Greater than **1 megabit** per second (Mbps) bandwidth per student is available through statewide fiber network service.

.68 to 1
Student to digital device ratio
That is more than 1 device per student

931,732
Student Instructional Devices

89% of districts assign a dedicated mobile device to all, or at least a portion of, students.
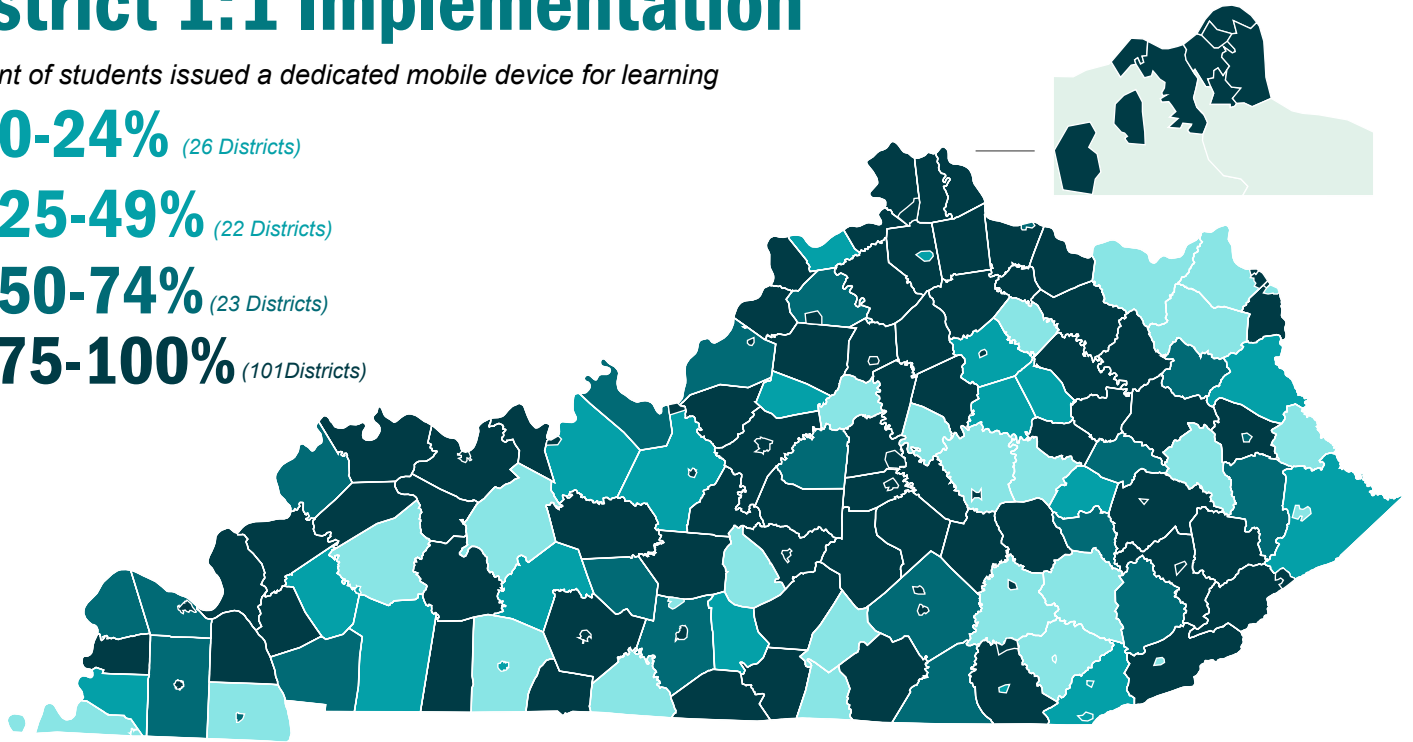
1,085,529 Student and Staff Devices

District 1:1 Implementation

Percent of students issued a dedicated mobile device for learning

◆ **0-24%** *(26 Districts)*

◆ **25-49%** *(22 Districts)*

◆ **50-74%** *(23 Districts)*

◆ **75-100%** *(101 Districts)*

100% of schools provide Wi-Fi access to students.

Of these, 99.8% have implemented dense Wi-Fi networks capable of supporting all students and teachers connected at the same time.

Digitally Empowered Learners

Strong digital skills derived from the Kentucky Academic Standards for Technology, such as utilizing shared digital workspaces, have been correlated with increased collaboration in the classroom. Students can think about concepts and interactions in more varied ways with the affordances of multimedia and multimodal representations.

Digital Communicator

79% of 6th-12th grade students use data analysis or visualization tools at least a few times a year.

81% of 6th-12th grade students use email or other online tools to communicate with their teacher to support their learning.
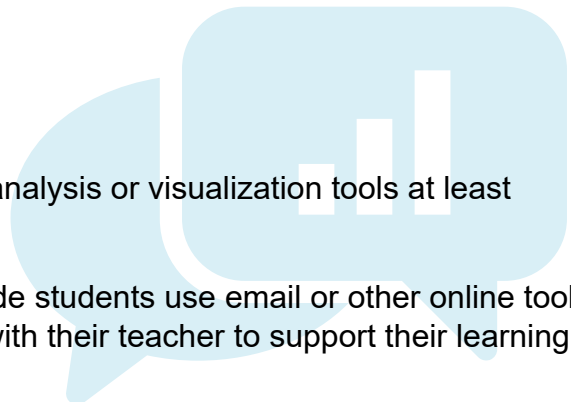
Digital Designer

82% of 6th-12th grade students use technology to demonstrate knowledge by creating videos, slide presentations, art, music, podcasts, etc.

77% of 6th-12th grade students develop digital portfolios or interactive notebooks to showcase their learning.

19,217 unique students in grades 6-12 completing at least one **Computer Science** course offered by their school, ATC, or local CTE center.
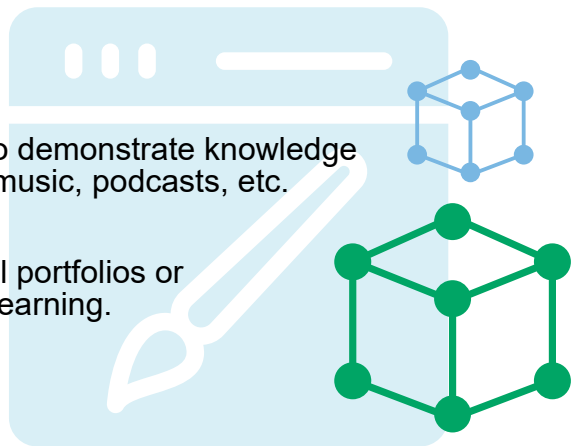
66% of 3rd-5th grade students say they participate in coding or programming activities at school such as The Hour of Code or as part of their school's STLP.

Digital Collaborator

Developing a level of comfort with digital collaboration outside of school helps students be more successful when collaborating with classmates, teachers, and other experts.

81% of 6th-12th grade students collaborate with classmates using online tools (like Google Docs) to support a project or assignments.

Additionally, 61% of 3rd -5th grade students say their computer or tablet helps them work on a project with other students.

73% of 6th-12th grade students find experts online to answer questions about new skills or interests.

Digital Citizen

Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world; they have the continuously developing skills of appropriate, responsible, and empowered technology use; they act and model ways that are safe, savvy, and social.

93% of teachers feel comfortable teaching digital citizenship strategies and behaviors to students.

96% of districts report having a strategic plan for teaching digital citizenship skills.

70% of 3rd-12th grade students report they know how to protect their personal data and maintain privacy when online

80% of 3rd-12th grade students report they know how to be safe when using online and digital tools.

STLP Kentucky

2025 STLP State Champion
◆ Kammerer Middle - Jefferson Co.
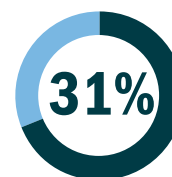◆ Fairdale High - Jefferson Co.

2025 STLP State Champion
◆ Russell High - Russell Ind.

2025 STLP State Champion
◆ Summit Elem. - Boyd Co.

60,000+
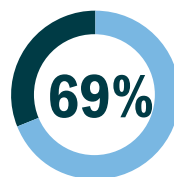
69% program integrated into content

31% after school program or club only

Greater than **60,000** student participants from **779** schools in **133** districts

Digitally Empowered Educators

Educators who are encouraged, recognized, and supported in the utilization of digital tools, more frequently create an environment of digital connectedness with students and families. This also aids in eliminating barriers to digital access and opportunity for students both on and beyond the school campus.

Digital Learning Designer

Educators design digital learning experiences and environments enabled by high-quality digital resources providing opportunities for student voice, choice, and path.

82% of teachers have students use a digital device (Chromebook, laptop, etc.) for learning at least weekly.

65% of teachers support differentiation by providing students with a variety of digital tools and options to use for learning.

73% of teachers use online quizzes or assessments at least a few times a month to inform student learning experience design.

*An **additional 15%** use them several times throughout the school year.*

76% of teachers allow students to use media creation tools to create content in support of their learning.

Digital Communicator

Kentucky's Educators Use a Variety of Ways to Stay Connected with Students and Their Families About Student Performance and Classroom/School Activities

Family Communication

District Mobile App
(push notifications) — **66%**

Text Message — **51%**

Infinite Campus Parent Portal
(IC Usage Reports - November '25) — **49%**

Student Communication

Websites
(teacher, class, and/or school) — **79%**

Learning Management System
(e.g., Canvas, Google Classroom) — **71%**

Infinite Campus Student Portal
(IC Usage Reports - November '25) — **96%**

78% of school administrators report using district or school social media accounts to communicate generalized information about school news and events.

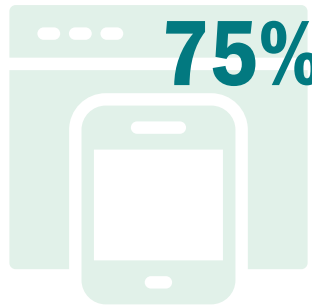KY is cited as a top 3 state in teachers accessing and using quality data to raise achievement for all students.

(Data Quality Campaign)

Digital Learning Collaborator

Educators are intentional to collaborate with peers, students, and experts outside the school to improve practice, discover and share resources and ideas, and solve problems.
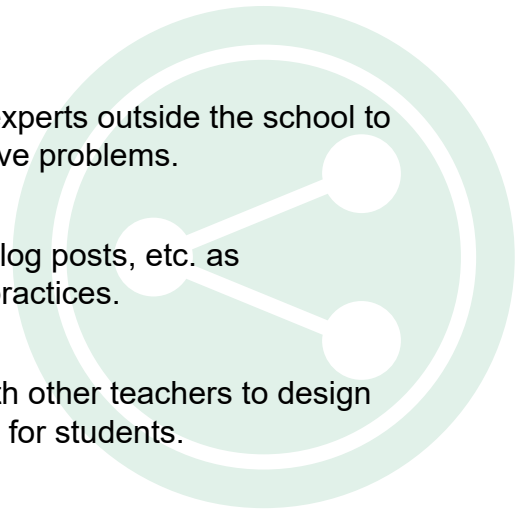
75% of teachers report using social media, blog posts, etc. as new ideas for growing digital teaching practices.

78% of teachers collaborated with other teachers to design digital learning experiences for students.

83% of teachers in **75%** of Kentucky districts have access to a digital learning coach (DLC).

94% of teachers feel comfortable managing students who are using digital tools.

80% of teachers feel the effective use of digital tools creates learning experiences that are interactive and participatory.

1016 1,016 School Media Librarians are employed at the district or school level, **885** of which are not split or shared among schools.

Of these, **92%** report intentional collaboration and support of digital strategies for teaching and learning.

Digitally Empowered School Leader

95% of school leadership feel the effective implementation of digital teaching and learning strategies is important to student success.

**89%** of school leadership feel they encourage teachers to try new things with technology.

82% of school leadership feel the administrative team models the effective use of digital tools in their own professional tasks.

Tech Trends

K-12 Online Assessment

In 2025, greater than **450,000** 3rd - 12th grade students in **100%** of Kentucky school districts successfully participated in high-stakes statewide testing, resulting in the highest recorded total of testing sessions* to date reaching nearly **1.8 million**.

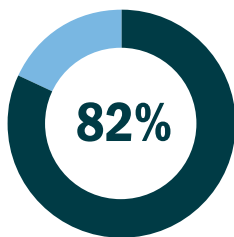*Includes Fall and Spring ACT, CTE E-SESS and TRACK, WIDA ACCESS ELL, AP Bluebook, and KSA.*
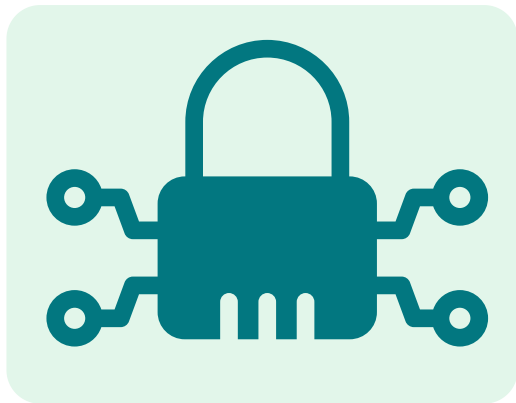
Cybersecurity

312 large-scale, organized network attacks aimed at denying internet access to all Kentucky schools and districts were successfully mitigated.
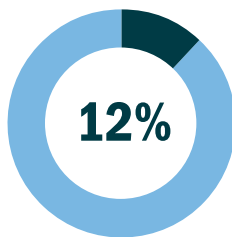
More than **137 Billion** unauthorized connection attempts against school networks are blocked annually by statewide security services.
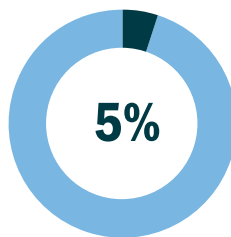
School Digital Device Footprint
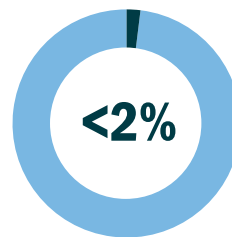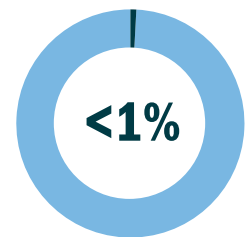*Totals may not equal 100% due to rounding*

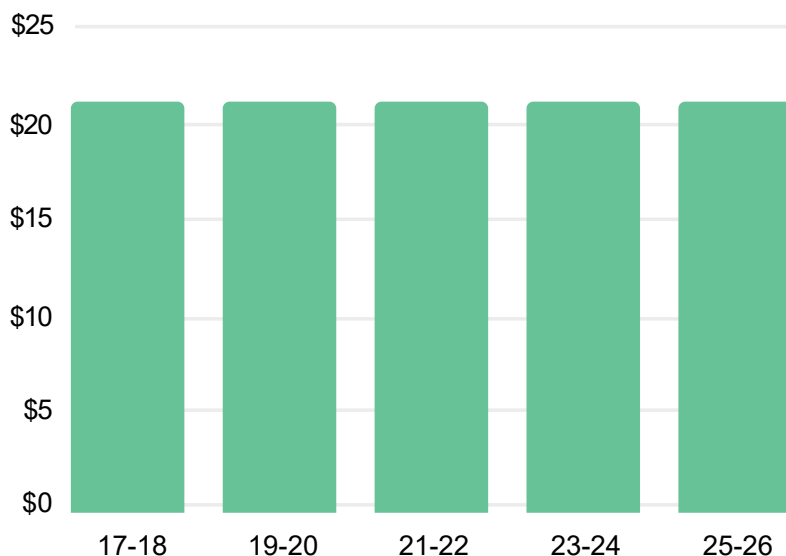| 82%	12%	5%	<2%	<1%
Chrome	Windows	iOS	Mac OS	Android

KETS Offer of Assistance

● School Year Per Student

	17-18	19-20	21-22	23-24	25-26

(Bar chart values approximately $21 per student for all years shown, Y-axis from $0 to $25)

Student B.Y.O.D.
(Bring Your Own Device)

56 districts permit students, by way of policy, to bring their own device to school for learning purposes.

54 districts permit BYOD and sponsor a 1:1 device assignment for students

22 districts offer no BYOD or 1:1

100% of districts are using Google Workspace & Microsoft 365 - for Education.

Artificial Intelligence (AI)

80%

140 (80%) districts report an intentional effort to encourage, engage, and empower the safe, secure, and responsible uses of Artificial Intelligence (AI) into school efficiency and learning space by teachers and students.
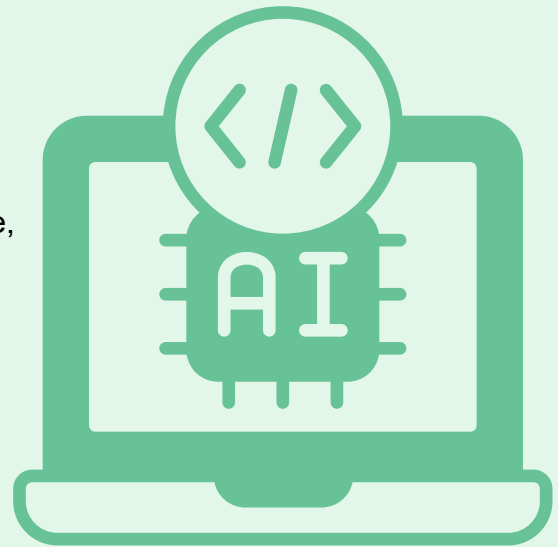
78% of teachers feel comfortable or somewhat comfortable incorporating AI to develop lesson plans and create resources.

69% of school administrators report creating drafts, emails, or images using AI in their daily tasks.
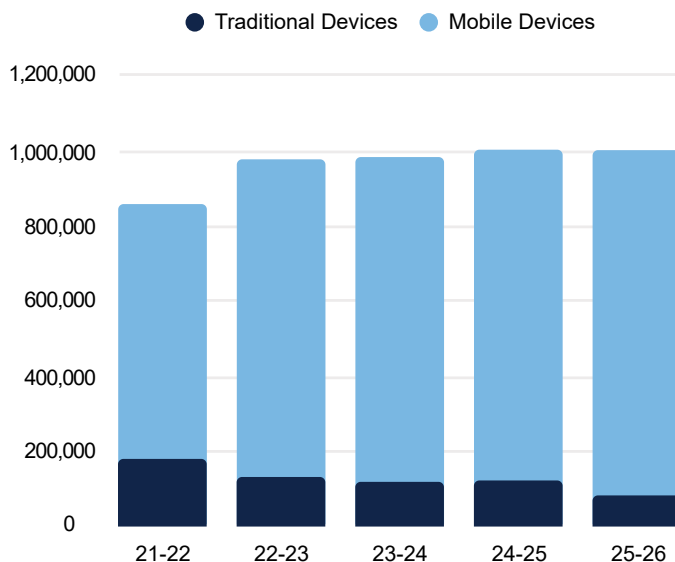
46% of 6th-12th grade students say they have experimented with AI tools on their own time.

28% of 6th-12th grade students say they use AI tools regularly to support **schoolwork** or **homework** assignments.

45% of 3rd-5th grade students say their teacher has used AI in a lesson with the class.

Traditional vs. Mobile Devices

● Traditional Devices ● Mobile Devices

	21-22	22-23	23-24	24-25	25-26

Y-axis: 0 to 1,200,000 in increments of 200,000

Online & Virtual Learning

88% of districts report offering online and virtual courses to students for credit. Of these, **76%** offer a full-time enrollment option.

54 districts offer online and virtual courses to students in other districts.
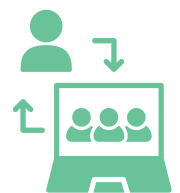
Learning Management System

97% of districts sponsor a district-wide learning management system (LMS).
The majority of adoption is with free cloud services.

Sources

Kentucky Digital Readiness Report: applications.education.ky.gov/trs_reports/Default.aspx
Kentucky School Report Card Suite: education.ky.gov/Open-House/Pages/School-Report-Card-Suite.aspx
Speak Up: tomorrow.org/projects/speakup/
Digital Driver's License: idrivedigital.com
KY Computer Science Report: education.ky.gov/districts/tech/Pages/KETS-2024-2030-Master-Plan-Appendix-A.aspx
Open House: education.ky.gov/Open-House/Pages/default.aspx