



Kentucky's digital and future ready students and teachers

We are headed towards greater and more meaningful digital interactions between family, school, and community. We believe digital and future ready foundations can:

- help empower student personalized learning experiences and preparedness for college and workforce
- increase teacher productivity and digital workflows
- enhance communications and invaluable collaboration models
- expand data enhanced decision making
- and, provide a robust infrastructure for endless possibilities.

623,513

Avg Daily Attendance



376,187

Student Instructional Devices

Access

Student access at school and at home helps us understand how "plugged in" learners are during the school day. Students without access to technology in school are less likely to engage in 21st century learning. Ease of access is a precursor to shifts in student outcomes.

100kbps

Bandwidth per student available statewide

100% of schools provide Wifi access to students

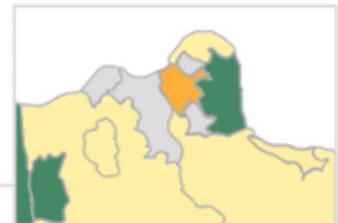
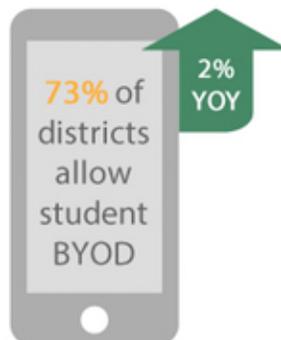


68% ↑1%
of students have a smartphone

Of these, **69%** of schools have implemented dense Wifi networks capable of supporting BYOD or 1:1 initiatives



88% students have Internet access at home. Of whom, **94%** have wireless Internet access.

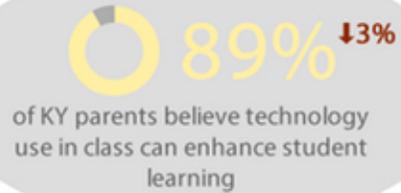


- 89** Districts with BYOD only - 51% (73% total)
- 17** Districts with 1:1 only - 9% (31% total)
- 38** Districts with both BYOD and 1:1 - 22%
- 31** Districts without BYOD or 1:1 - 18%

Future Ready Student

Strong online skills, such as confidence using 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.



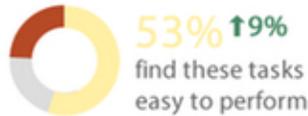
MULTIMEDIA SKILLS

Student reported ease of editing a photo



13% reported never doing so

Student reported ease of uploading photos from a camera or phone



18% (-5%) reported never doing so

Student reported ease of recording and editing video



11% (-1%) said the task was impossible

Student reported frequency of playing a game on a computer or phone



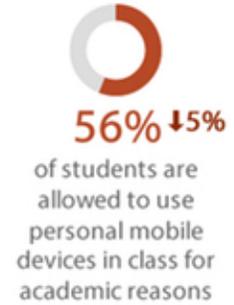
4% (-1%) reported never doing so

FOUNDATIONAL SKILLS

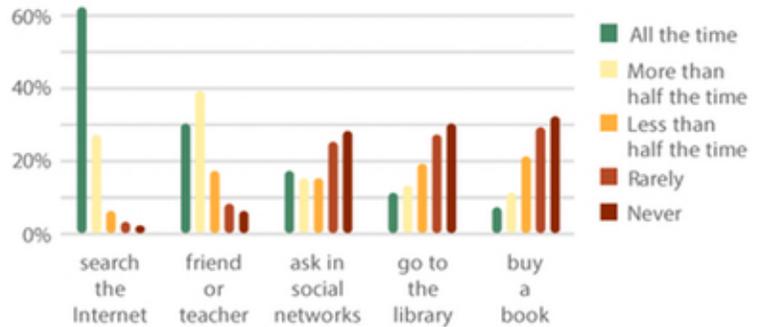
Student reported ease of sending an email



4% (-1%) said the task was impossible



Student reported research methods



Students who have access to computers and the Internet are more likely to use technology more frequently and have better technology skills. These skills are a precursor to the use of digital creativity, digital collaboration, digital communication, and critical thinking in the classroom and while learning.

Students can also personalize the use of their technology and leverage greater access to engage in anytime, anywhere learning on topics of their choice.



< KY IMAGINE ACADEMY />

21st Century Teacher

MULTIMEDIA SKILLS

Ability to manipulate photos and record and edit audio or video



49% expressed interest in PD in this area

ONLINE SKILLS

Essential skills for contributing to and collaborating on the Internet



15% expressed interest in PD in this area

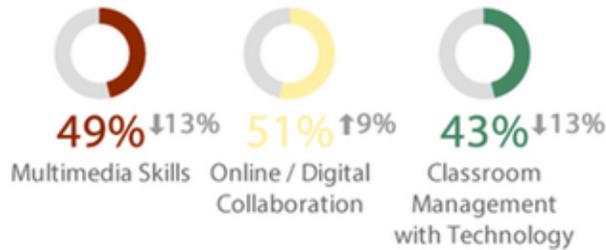
FOUNDATIONAL SKILLS

Basic computing skills - sending email and creating spreadsheets



17% expressed interest in PD in this area

Most requested education technology PD topics



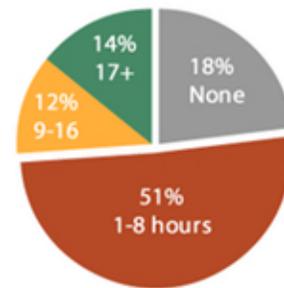
Teachers with strong foundational skills are able to handle administrative classroom tasks easily, including attendance and grading. Further, teachers who are confident in their ability to use foundational skills are often able to use these skills when learning new online and multimedia skills.

4 of 5 teachers report having sufficient access to instructional technology...

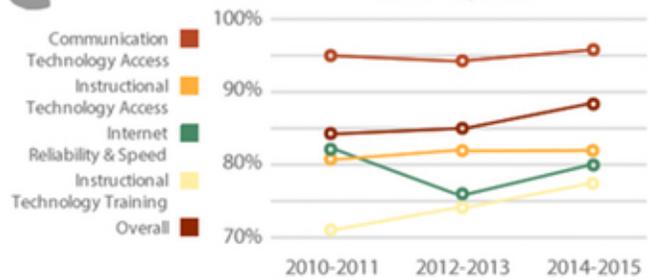


yet less than 2 in 5 have access to a Technology Integration Specialist (TIS)

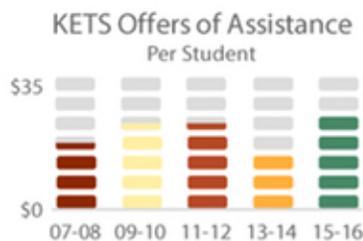
Teacher-reported hours spent per year participating in school-sponsored technology related PD



TELL Survey Results
Positive Responses



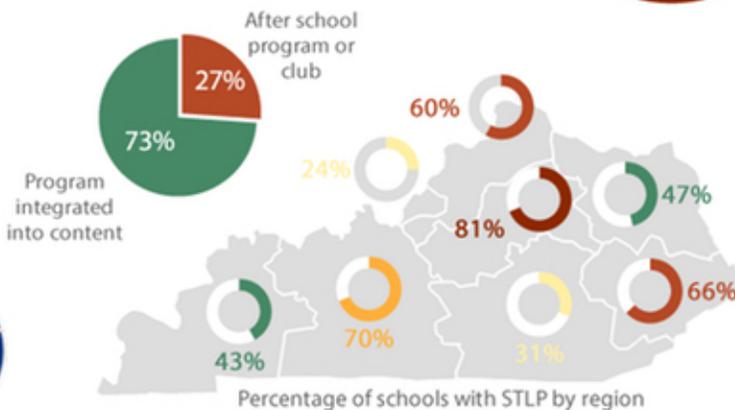
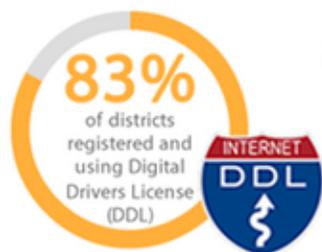
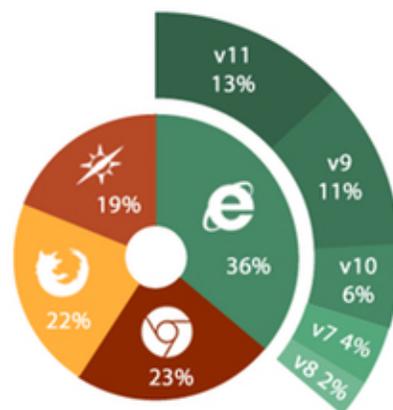
Tech Trends



71% of districts are using Google Apps for Education. Of these, 64% have intergrated with Office 365 & Active Directory



- 63% ↓4%** WINDOWS
- 12% ↑1%** MACINTOSH
- 17% ↓1%** iOS
- 2%** ANDROID
- 6% ↑4%** CHROME



*For our 2016 infographic, we've presented subscript indicators for year-over-year changes to data where applicable. GREEN indicates favorable changes, RED unfavorable, and GRAY neutral.



Sources

- Kentucky Technology Readiness Report: http://applications.education.ky.gov/trs_reports/
- TELL Kentucky: <http://www.tellkentucky.org/results/25>
- BrightBytes: <http://brightbytes.net>
- Digital Driver's License (DDL): <http://iDriveDigital.com>
- Google Analytics
- Open House: <http://openhouse.education.ky.gov>

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