

Technology Report

Capital Needs Planning Committee
December 17, 2015

Technology Plan

Previous Bonds

- 1999 - 1.5 Million
- 2009 – 26 Million
 - Infrastructure
 - Classroom AV
 - Interactive Whiteboards
 - Enhancing Instruction
 - VOIP
 - Fiber



Technology Plan

- Increased Bandwidth 100Mb-2Gb – P. 7, 13
- Increase CTE offerings- P. 9
- BYOD – P. 10
- LMS – P. 11
- Interactive Whiteboards – P. 12
- Wireless – P. 12
- Device Lifecycles – P. 13
- Fiber Network – P. 14
- Language lab computer systems – P. 14
- Security Cameras – P. 16



BrightBytes Survey



C- Classroom

A- Access

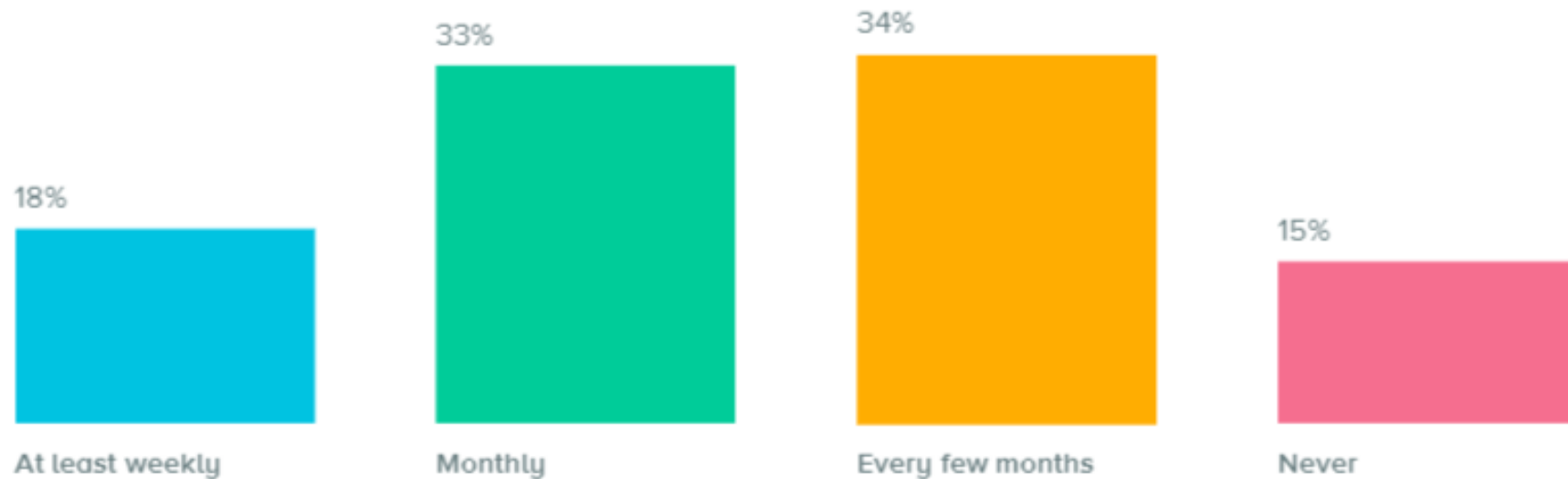
S- Skills

E- Environment


Collaboration Online



Students are asked to collaborate online with classmates



Student: Computer Ratio

 The typical student to computer ratio at school as reported by teachers is



Teacher Access to Devices



Desktop

85% All of the time



Mobile Computer

90% All of the time



Tablet

43% All of the time

Internet Speed

📶 Teachers report that the quality of internet speed at school is



30%
Excellent



31%
Above
Average



32%
Average



5%
Below
Average



1%
Poor

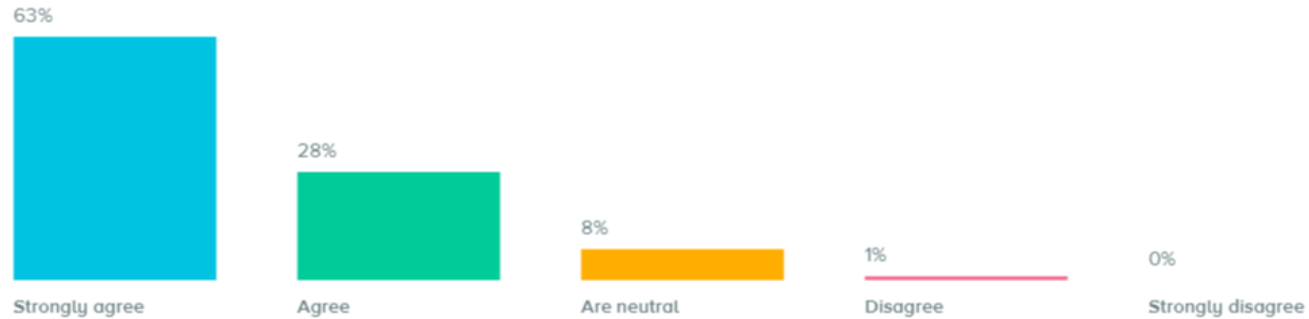


0%
N/A

Professional Development



“I want to learn more about effective technology use for teaching and learning.”



DATA HIGHLIGHT



91%
of teachers want to learn more



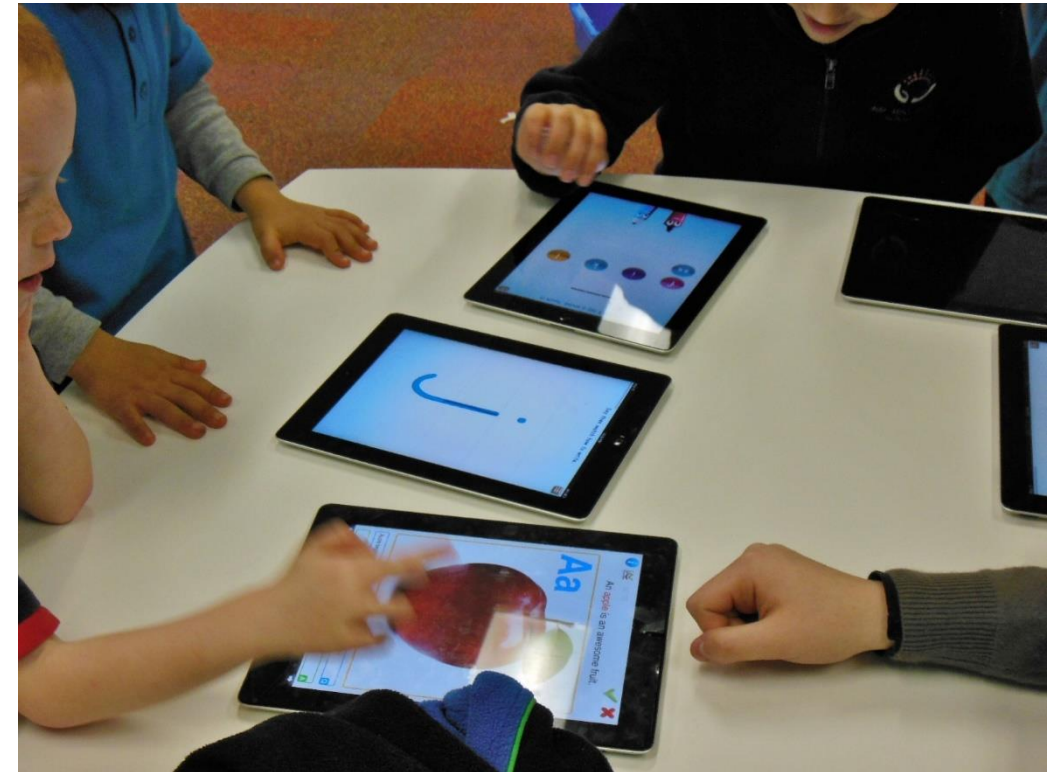
61%
of students want to learn more

Network Assessment

- Data closet walkthrough
- RISC Assessment
- Trend Analysis
 - Storage
 - Server , CPU and Memory usage
- Standards research
 - CoSN & ISTE
 - 10Gbps internet by 2018 / 20Gbps by 2024
 - 20Gbps intranet by 2018 / 200Gbps by 2024
- Surrounding school districts
 - Grapevine/Colleyville
 - Coppell

Infrastructure Needs

- Immediate Needs (0-1 years)
 - Core switch replacement
 - Internet firewall/filter upgrade
- Near term Needs (1-2 years)
 - Campus network refresh
 - Wireless augmentation and refresh
 - Datacenter refresh
 - UPS (Battery Backups) refresh
- Long term needs (3-5 years)
 - Fiber Infrastructure redesign
 - VOIP refresh
 - Physical Security refresh
- Estimated Infrastructure costs
 - \$33,000,000 (DIR Pricing)



Cost Savings

- Retain 2/3's of network infrastructure hardware
- Utilize more efficient hardware, which will save on power.
- Redesigned WAN hardware will qualify for Erate and allow us to use less expensive optics

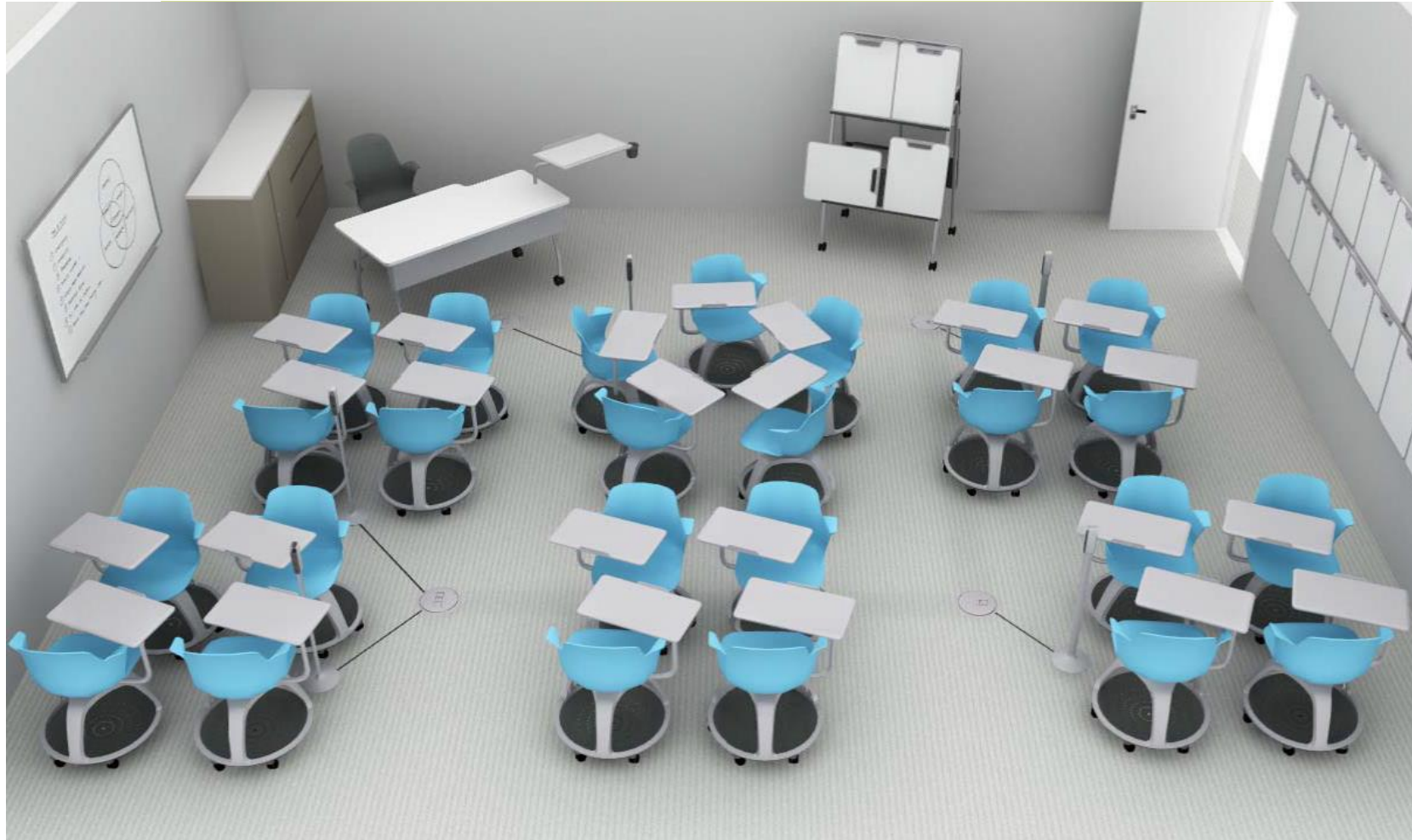


Strategic Plan

Strategy #3

Provide relevant technology resources, along with quality ongoing training, to integrate best-of-class learning experiences and efficient work environments.

- 3.1- Collaborative Spaces
- 3.2- Infrastructure & Technology Spaces
- 3.3- 1:1 Mobile Devices
- 3.4- Professional Development
- 3.5- Technology Staffing



Proof of Concept Rooms

- Groups
- Rotation
- Survey



Wrap-up

Thanks for your time!