Platte County School District

Technology Integration Plan

2014-2017

Building learners of tomorrow…

Platte County School District

Vision

Building learners of tomorrow…

Mission

To prepare individual learners for success in life, the Platte County School District provides meaningful experiences in a safe and caring environment.

Values

Visionary Leadership
High Expectations
Student-Focused
Results Oriented
Collaboration
Innovation
Integrity

Strategic Focus Areas

Academics – Student Achievement
Business – Financial and Service Support
Community – Students, Staff, Parents, & Members

Goals

The Platte County School District will...

1. Develop and enhance quality educational/instructional programs to improve overall and individual student academic performance.
2. Proactively and responsibly manage district growth, finances, and support services to improve student achievement.
3. Provide each student with a relevant education in a safe and caring environment.
4. Attract, retain, and develop a high quality staff.
5. Improve parent and community member communication and involvement.

Technology Integration Plan

Purpose

The Platte County School District is committed to providing each student with a relevant education in a safe and caring environment. As part of our strategic plan, the Platte County School District ensures the application and assessment of 21st Century skills in each school and classroom.

Definitions

Bring Your Own Device (BYOD) is an alternative strategy allowing students to utilize a personally selected and purchased device to access the Internet, digital course materials, and digital textbooks.

One-to-One Student is when the district issues each enrolled student and electronic device in order to access the Internet, digital course materials, and digital textbooks during the school day and home use.

One-to-One Classroom is a model where the District provides each teacher with a mobile device cart for students to utilize to access the Internet, digital course materials, and digital textbooks during the school day.

Recommendations

1. Maximize technical resources that are already available to students.
    a. Ensure students access to learning and curriculum.
    b. Provide resources to teachers and students to assist technical skills and knowledge.
2. Create a relevant learning experience using technology personalized to each student.
    a. Utilize Internet, digital course materials, and digital textbooks to provide unlimited access.
    b. Create individual learning experiences and project based learning environment.
    c. Increase student engagement and interest through collaboration tools.
3. Enhance College and Career readiness using 21st Century Skills.
    a. Prepare students for tomorrow's workplace through a cohesive use of technology.
    b. Provide students an early introduction to learning management systems that are utilized at the college and career level.

Implementation Timeline

2013-2014

- BYOD Pilot at PCHS
- Technology Committee developed Intergration Plan to include three implementation options
- Wireless infrastructure at five of nine buildings
- Increased number of mobile device carts at Siegrist, PCHS, Barry and NCC

2014-2015

- BYOD full implementation at PCHS
- Leadership Academy to revise current technology plan with an emphasis on technology intergration.
- Wireless infrastructure at eight out of nine buildings.
- Increase number of mobile device carts at all buildings that have wireless capability
- Evaluate and identify 1 to 1 student device to be used for grades 6 through 12 through Innovation Team
- PD for MS staff regarding 21st Century Technology Skills
- Airserver Pilot (Mirroring Ipads to projectors)

2015-2016

- Distribute 1 to 1 student device of choice to all staff at PCHS.
- Distribute mobile carts of 1 to 1 student device at PCHS to increase student availability of devices .
- Increase technology PD through the use of a full-time Technology Intergration Specialist (6-12).
- Focus PD at PCHS for upcoming 1 to 1 student deployment in 2016-2017.
- Evaluate and identify 1 to 1 classroom device to be used for grades K through 5.

2016-2017

- Full 1 to 1 deployment at PCHS.
- Distribute 1 to 1 device of choice to all staff at PCMS and Barry Middle School.
- Distribute 1 to 1 classroom device of choice to all staff at Pathfinder, Barry Elementary, Siegrist, and Paxton.
- Distribute mobile carts of 1 to 1 student device at PCMS and Barry Middle School to greatly increase student availability of devices.
- Increase technology PD through the use of an addtional full time Instructional Technology Coach (K-5).
- Focus PD at PCMS and Barry Middle School for upcoming 1 to 1 deployment in 2017-2018.

2017-2018

- Full 1 to 1 deployment at PCMS and Barry Middle School.
- Distribute 1 to 1 classroom devices at Pathfinder, Barry Elementary, Siegrist, and Paxton to increase student availability of devices.
- Focus PD at Pathfinder, Barry Elementary, Siegrist, and Paxton for continual increase in 1 to 1 classroom devices.

Goals

1. Enhance the systematic process of improvement for teaching and learning.
2. Increase innovation in the classroom.
3. Increase Sub Group achievement.
4. Increase relevancy for all students.
5. Increase College and Career Readiness of all students.

Evaluation of Technology Integration Plan

Core Measures

- Survey data from student and teacher perception based on technologies impact on learning
- College and Career Readiness – ACT, MAP, EOC
- Attendance, Graduation Rate, Behavior
- Power Standards

Enabling Measures

- Correlation student to computer ratio
  - Student achievement data
  - Attendance
  - Behavior
  - Graduation rate
- Correlation of Bandwidth utilization

Systematic Professional Development Plan (phased in with each distribution)

- Training to familiarize Innovation Team members on chosen devices
  - 6^{th} – 12^{th} grade - Chromebook, Chromebook Convertible, Windows Laptop/Tablet
  - K – 5^{th} grade – Devices to be determined closer to phase in timeline
- Visit schools to see integration of devices
  - 6^{th} – 12^{th} grade - School visits to Liberty for Chromebook, Park Hill for Windows Laptop/Tablet
  - K – 5^{th} grade – School visits will be determined closer to phase in timeline
  - Observations while on School Visits
    - Specific devices and how it works with students
    - Technology integration used to enhance teaching and learning
    - FAQ session with visiting school regarding device and integration of technology
- Innovation Team will meet monthly for collaboration and training starting in December topics for PCHS phase
  - Google Apps used in the classroom
  - Smart Notebook
  - Blended Learning – discussions on best practices using Blackboard as the medium
  - Flipped Classroom – discussions on best practices using Blackboard as the medium
  - Discussion of how technology integration will enhance Teaching and Learning Power Standards

Integration Plan Strategies/Actions

Description of Strategy and/or Action (Long- & Short-Term)	Person(s) Accountable	Outcome(s)	Resources	Begin Date
Install firewall appliance to conserve bandwidth for BYOD at PCHS.	Technology Department	BYOD at PCHS will increase the amount of bandwidth needed and our new firewall will prioritize bandwidth so critical web applications will be available to staff and students.	Meraki Firewall Appliance	Summer 2014
Install Wireless Infrastructure at Pathfinder, Barry, Paxton, and PCMS.	Technology Department	A Wireless Infrastructure at these buildings will help the District increase the amount of mobile devices in the District while having a positive impact on available classroom space.	Meraki Wireless Access Points	Summer 2014
Create Secondary Innovation Team (2 PCMS, 2 BMS, 4 PCHS, 2 Special Service)	Technology Director and the Academic Services team	Team will be trained and paid a stipend for usage of 21st century technology in their classroom and observations from colleagues.	Stipend of $250 per member (Use money budgeted for District Tech Committee)	Fall 2014
Implement Professional Development plan to focus on technology integration.	Coordinator of Professional Development and Academic Services team	Train the trainer model to offer technology integration PD to all 6-12 staff.	Subs for school visit	Spring 2015
Obtain pilot 1 to 1 devices for evaluation and testing with the Technology Integration Team regarding grades 6 through 12.	Technology Department	Innovation Team members will test devices to give feedback for best 1 to 1 device for our District	Various Mobile Devices $18,000 Budgeted through current	Winter 2014
Investigate Technology Innovation Specialist position	Technology Director	Technology Innovation Specialist will oversee the Technology Integration Team as well as 1 to 1 deployment and future needs.		January 1, 2015
Develop Geek Squad Class	Curriculum	Train students to troubleshoot devices giving real world application		Spring 2015
Distribute selected 1 to 1 device to PCHS staff which includes training about the device.	Technology Department	PCHS Staff will have a full year to prepare for the High School 1 to 1 program with the selected device.	Selected 1 to 1 device $40,000 to $70,000	Summer 2015
Obtain pilot 1 to 1 devices for evaluation and testing with the Technology Integration Team regarding grades K through 5.	Technology Department	Innovation Team members will test devices to give feedback for best 1 to 1 device for our District	Various Mobile Devices $18,000	Fall 2015
Distribute selected 1 to 1 device to PCHS students which includes training about the device.	Technology Department	Each student at PCHS will have their own personal device for access to online curriculum and resources	Selected 1 to 1 device $520,000	Fall 2016
Distribute selected 1 to 1 device to PCMS and Barry Middle School staff which includes training about the device.	Technology Department	PCMS and Barry Middle School Staff will have a full year to prepare for the Middle School 1 to 1 program with the selected device.	Selected 1 to 1 device $40,000 to $70,000	Summer 2016
Distribute selected 1 to 1 device to PCMS and Barry Middle School	Technology Department	Each student at PCMS and Barry Middle School will have their own personal device for access to online curriculum and resources	Selected 1 to 1 device $520,000	Fall 2017

students which includes training about the device.				
Distribute selected 1 to 1 classroom Distribute device to Elementary staff which includes training about the device	Technology Department	Elementary Staff will have a full year to prepare Elementary Staff will have a full year for 1 to 1 classroom deployment.	Selected 1 to 1 classroom device $70,000 to $90,000	Summer Summer 2017
Distribute selected 1 to 1 classroom set devices to all Elementary classrooms including training for device.	Technology Department	Each classroom teacher will have a classroom set of devices for access to online curriculum and resources.	Selected classroom sets of device $800,000	Fall 2018

Innovation Team Expectations

- Stipend based Team
- Pirate "Geek" squad members
- Participate in the trial process of prospective devices
- Provide professional development for all teachers
- Flexible, willing to help others and innovative
- Guarantee technology integration for teaching and learning

Process and Deployment Steps for 1 to 1 Initiative beginning Spring 2015

Evaluation

- Visit other schools utilizing products
- Curriculum and resource crosswalk for best fit
- Trial of each product by Technology Integration Team
- Cost Analysis

Deployment

Spring 2016 – Parent/Student information night

- Why, when, how
- Costs associated with
- Deployment process

Summer 2016 – Parent/Student Meeting

- Responsibilities
- Proper care/acceptable use

August 2016 – Enrollment days

- Checkout of device
- Pay insurance

Expectations

- Student use with monthly feedback – topics to include ergonomics, ease of use, compatibility, battery life, durability
- Planning and teaching lessons

- Visit schools to observe
- Train staff in 2015-2016