Horseshoe Bend School District #73
Technology Plan
2021-24
(Revised 3-18-2021)

Our Mission: **Empower Through Education**

Our Vision: **A school that is celebrated for its academic excellence where students realize their potential and are prepared for the opportunities of a rapidly changing world.**

Our Core Values:
- **Optimism**. *We are enthusiastic, positive, and we confront problems in a constructive and productive way.*
- **Respect**. *We believe every person is an individual of worth and value and must be respected and given an opportunity to flourish.*
- **Trust**. *We are confident in the abilities, integrity, and responsibilities of ourselves and others.*
- **Intention**. *We act with purpose and focus to achieve and carry out our goals; we know what we intend to bring about and how we intend it to happen.*

Our Student Outcomes
- **Self-Directed Learner:** *The ability to be responsible for one's own learning.*
- **Community Contributor:** *The understanding that it is essential for human beings to work together.*
- **Complex Thinker:** *The ability to perform complex thinking and problem solving.*
- **Quality Producer:** *The ability to recognize and produce quality performance and quality products.*
- **Effective Communicator:** *The ability to communicate effectively*.
- **Effective and Ethical Users of Technology:** *The ability to use a variety of technologies effectively and ethically.*

Critical Components

- Infrastructure
  - Vision: Provide adequate wired and wireless connectivity and bandwidth throughout the district which will support instructional efforts and allow for the needs of the future.
- Equipment
  - Vision: Ensure equipment is capable of performing all necessary tasks and operations for grade levels and/or specific courses for all students and staff.
- Student Learning Choices
  - Vision: Implement a plan for advancing students learning, creativity, and innovation in both face-to-face and virtual environments.
- Training/Professional Development
  - Vision: Provide ongoing professional development that supports and encourages effective use of technologies and digital resources that enhance student learning.

Critical Components: Current State

- Infrastructure
  - Student-occupied buildings have reliable wired and wireless access.
    - Exception being Annex Building
  - 15 Juniper Switches, 1 Physical Servers with 10 Virtual Servers, Cat6 Cabling, 1GB to each wired device, 10GB fiber from building to building
  - Sufficient electrical outlets surge-protected at the electrical panel to charge individual devices
  - Each school has at least one computer lab with desktops
    - Elementary lab and middle school lab layouts do not maximize space available
- Equipment
  - All classrooms have a SmartBoard, with most being new SmartBoards purchased in 2019-20 (elementary) and 2020-21 (middle/high school)
    - Exceptions being computer labs and libraries
  - All classrooms have a document camera
  - All classrooms have at least one web camera
  - Most classrooms have at least 2 desktop computer workstations.
  - Each school has at least two Chromebook mobile labs with approximately 25 Chromebooks in each mobile charging cart
    - Elementary School – 3 carts
      - One cart is used for grades K-2 and remains in the 2nd grade classroom.
      - Two carts are used for grades 3-5 and both remain in the elementary computer lab.
    - Middle School – 2 carts
      - Once cart remains in 6th grade room

- One cart remains in English room
  - High School – 3 carts
    - One cart remains in the science room
    - Once cart remains in the IDLA Computer Lab for individual Chromebook checkout
    - One cart is stored in teacher's lounge available for classroom checkout (the entire mobile lab is checked out to a teacher)
- Each building, with the exception of the gym building, has a computer lab with desktop computers with wired internet access
- Operating systems and software:
  - Windows 10 Education version 20H2
  - Office 2016
- Student Learning Choices
  - All schools have access to a variety of online applications, but it varies from school to school and class to class
    - Elementary
      - Read Naturally Live
      - Open Court Foundational Reading Program
      - Wit & Wisdom ELA Program
      - In Sync Remote Learning Wit & Wisdom Program
      - Eureka Math
      - Renaissance Place/Accelerated Reader
      - MobyMax
      - Istation
      - iReady
      - Khan Academy
      - Programs used in computer class: Tynker: Coding for Kids, CS First: Google Computer Science for Kids, ABCya!: Letter & Number Learning Games for Kids, Room Recess: Mouse Exercise games
    - Middle School
      - No Red Ink
      - Coding elective class which includes basic robotics
    - High School
      - No Red Ink
      - Intro to Computer Science elective class which includes basic robotics
      - Remote options
        - IDLA: Business Computer Applications, Exploring Computer Science, AP Computer Science, App Development, DC Computer Science Principles, Dc Intro to Programming, DC Web Development
        - PRT2A: Computer Applications
  - Google Classroom is also used as the primary Learning Management System in a remote learning situation

- o Currently, no classes are being taught to foster basic technology skills (i.e. Computer Applications), with the exception of keyboarding in the elementary school.
    - o Currently, no formal classes/training exist for students to learn about internet safety, cyberbullying, etc…
- ● Training/Professional Development
    - o All K-12 teachers have received training in providing effective online instruction (COVID) using Google Classroom.
    - o Elementary teachers have received formal training on using new SmartBoards, and training has been made available to middle/high school teachers on making full use of the features available on the new SmartBoards.
    - o Select elementary staff members have received training on Istation.
    - o Select elementary staff members have received training on iReady.

Critical Components: Moving Forward

- ● Infrastructure
    - o Ensure technology systems (servers, switches, etc…) are kept current to ensure new technologies function optimally
    - o Ensure all district classrooms, offices, and labs are provided access to wired and/or wireless high speed internet
    - o Reconfigure elementary computer lab set-up to be more conducive to teaching and learning
- ● Equipment
    - o Purchase enough Chromebooks and mobile labs to ensure a 1-to-1 ration in the middle/high school
    - o Maintain current levels with working Chromebooks and mobile labs in elementary school
    - o Create criteria and timeline for a "refresh cycle"
    - o Ensure printers can cloud print if needed
- ● Student Learning Choices
    - o Provide instruction to ensure students are technology literate
    - o Provide instruction on internet safety
- ● Training/Professional Development
    - o Offer courses to support integrating technology as a routine instructional tool.
    - o Use a train-the-trainer model with those who gain technology use knowledge in offsite professional development