

# Technology Update – 17 July 2024 (21 August 2024 Update) (16 October 2024 Update)

## Technology Goals: Improve the Internet and Keep Students Safe

### Phase 1: Network Centralization

Timeline: 10 October 2023 - 31 July 2024

Estimated Cost: \$50,000

Action:

1. Install secured network **Cabinets** in appropriate locations in each school (32 total)  
(\$20,000 for 32 new cabinets)  
(29/32 cabinets installed)  
(All school cabinets are installed. District Office still needs to be put in place.  
31/32)
2. Pull new network **Cables** throughout each school from network closet to each device  
(\$30,000 to land 9 miles of cable, and remove 4 miles of damaged lines)  
(IT working overtime to lay cable.)  
(This week, we are pulling final cables to HS room 223 and the new gym for game cameras, security cameras, and speakers this week.)

### Phase 2: Network Refresh

Timeline: 15 July 2024 – 16 August 2024

Estimated Cost: \$428,000 (before e-rate reimbursement of \$284,000 = District \$144,000)

Action:

1. Deploy new **Switches** in cabinets instead of mini-switches (\$322,000 e-rate pays 70%) (91/96 installed)  
(All switches installed except for one in the District Office. 95/96)
2. Install new **Servers** (currently have 2; moving to 6 servers—3 main, 3 secondary \$33K)  
(Hard drive crashed. New hard drives ordered.)  
(Teach company bringing new hard drives this month and will reimage. Old hard drives will not be used, so we will eventually be running with 4 servers—2 main and 2 backups.)
3. Deploy new **Firewall** (moving from 1 to 2 firewalls)—1 active and the other secondary, but load balance set up to support traffic as needed = \$13K + \$30K for 5-year license). New firewall protection to stop network intruders 20 times more powerful than current)  
(Two firewalls up and running in a mode balancing manner.)  
(IT changed settings to block all VPN security circumventions.)
4. **Segment** network: Separate student and staff groups on different ports and circuits  
(Completed. Student network can't get to other network areas.)  
(District prepaid 801 Tech through e-rate to install fiber. The company will upgrade bridges between maintenance and band building and from HS to track. Running single-mode fiber from DO and HS.)

### **Phase 3: Hardware Device Upgrades**

Timeline: 12 June 2024 – 12 August 2024

Estimated Cost: \$315,000 student computers & \$75,000 staff computers

Action: (All device upgrades indicated in July were completed by this August update.)

#### Pioneer

**1<sup>st</sup> Grade:** Classroom set of 25 touch screens in each room (\$60,000 from ESSER)

**2<sup>nd</sup> Grade:** Classroom set of 25 touch screens in each room (\$60,000 from Literacy)

(Kindergarten: Repurpose and move the best machines into the kindergarten classrooms)

#### Oakwood

Replace Instructional **LAB** Computers (\$230/machine = \$8,300)

#### Junior High

**6<sup>th</sup> Grade:** New 1-1 Student Devices (\$250/machine = \$50,000)

(7<sup>th</sup> and 8<sup>th</sup> Graders will use the one to two-year-old machines they used last year)

Replace Instructional **LAB** Computers (\$550/machine = \$20,000)

#### High School

**11<sup>th</sup> Grade:** New 1-1 Student Devices (\$250/machine = \$50,000 ESSER)

**12<sup>th</sup> Grade:** New 1-1 Student Devices (\$250/machine = \$50,000 ESSER)

Replace two (2) **LAB** Computers (\$330/machine = \$16,600) (20 HS lab computers died)

FCHS (replacing devices at FC was not on this year's plan, but had enough stock to do so.)

Replaced two (2) mobile student labs with new devices

Replaced devices in the fixed computer lab.

#### Staff

New Teacher Laptops (Upgrade 50 computers @ \$1,500/machine = \$75,000 ESSER)

(IT handing out 30 right now in August)

(30 teachers plus some new hires were given new laptops)

**Phase 4: Additional Student Safety** - New **Content Filter** on devices in August

(\$18,000)

(Securely installed at the end of August 2024)