



1:1 Technology plan - Salem Public Schools

April 2018

1:1 Technology program for Salem Public Schools

- How to fund the proposed 1:1 technology program at Salem High School

On each slide a funding model will be explored with pluses and minuses of each

Current technology inventory

- Salem High School: 5 Chromebook carts totaling 125 Chromebooks
 - 100 - 2 year old Acer model
 - 25 - new 2-1 flip Acer model

- Collins Middle School: All student have Chromebooks totalling more than 500 devices. One class level is 3 year old Acer model, while the other 2 grades are 1 year old Acer model

Plan for Salem High School:

2018-19 - Each Freshman gets a device - projected at 250 devices

2019+ Each student grade 10-12 gets a device - projected at 700 additional Devices (Implementation strategies need to be reviewed)

Device cost - 2-1 Flip Chromebook = \$270
Google Admin Console license = \$30
Total = \$300 for each new device

2018-19 250 devices \$75,000
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5 year total \$360,000/ \$72,000 year

OPTION 1 - SPS funds the program.

Many districts that have decided to embark on a 1:1 program in this model have built in a recurring annual cost as this will cover the program long term.

- Current student population = \$72-75,000/year to support 1:1 program
- In addition to the purchase of the devices, considerations need to be made regarding upkeep and repairs?

OPTION 2 - SPS funds the program and asks parents to support program through a tech fee.

Many districts that have decided to embark on a 1:1 program in this model have built in a recurring annual cost as this will cover the program long term while also asking parents that are able to pay for a yearly tech fee.

- Using current student population data = 46% Economically Disadvantaged
- 54% of student body at SHS = 530 students
- This would support the repair/replacement plus add some \$\$ to fund program

Tech Fee \$25	Tech Fee \$30	Tech Fee \$35	Tech Fee \$40
\$3,375 gr. 9 \$13,250 gr. 9-12	\$4,050 gr. 9 \$15,900 gr. 9-12	\$4,725 gr. 9 \$18,550 gr. 9-12	\$5,400 gr. 9 \$21,200 gr. 9-12

OPTION 3 - Phase the project in over 4 years. SPS funds the program through operating expenses and asks parents to support program through a tech fee.

Similar to the previous models, but roll out a grade level at a time. This would level the cost to a consistent number and make the refresh a yearly budget item.

- Makes integration more complicated as you get into grades 10-12
- Makes it more difficult to keep all students on the same device

Tech Fee
25\$

\$13,250
Net cost - \$61,750

Tech Fee
30\$

\$15,900
Net cost - \$59,100

Tech Fee
35\$

\$18,550
Net cost - \$56,450

Tech Fee
40\$

\$21,200
Net cost - \$53,800

Option 3 - BYOD - Require all students to come with a device that meets certain minimum levels.

- SPS would have to provide for AT LEAST 46% of the students - that would be at least \$37,125 (likely higher).
- Unless the program requires all students to bring a Chromebook to be managed by the school, then you would have to also provide for computers for Computer Based Testing for grades 9-10 which will be required in 2018-19 school year.
- Long list of additional issue this program raises - See DESE Digital Learning [*“Planning and Implementation Considerations for BYOD and 1:1 Technology Models”*](#) document for more information

- **What are other districts doing?**

- Malden: 1:1 grades 6-12 - 2,200 devices at HS. All students pay \$40 fee
- Danvers: 1:1 grades 6-12 - all students pay \$30 insurance fee
- Peabody: 1:1 grade 6-9, adding a class a year. All students pay \$30 fee
- Waltham: 1:1 grades 6-12, students don't pay any fee
- Revere: 1:1 grades 6-12, students pay an insurance/processing fee
- Beverly: 1:1 grades 9-12, BYOD or lease from school
- Lynn: no official 1:1 program
- Gloucester: 1:1 grades 8-10, adding a grade a year
- Haverhill: 1:1 in middle school as part of a new school loan, budgeted for 1:1 at HS in 2016-17 but it was cut
- Dennis-Yarmouth: 1:1 3-12 with iPads
- Fitchburg: 1:1 9-12 - [Article](#)

1:1 Programs in Massachusetts - 92 schools represented

