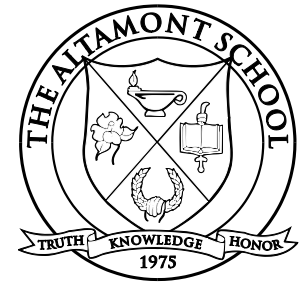


# The Altamont School

## 1-to-1 Laptop Program

### Project Summary

# The Evolution of Technology in the Classroom – 1-to-1 teaching



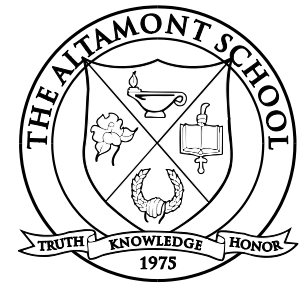
## Context for the Discussion

- Altamont has used and is continuing to use numerous forms of computing technology for teachers and students including computer labs and classrooms, mobile computer and iPad carts and a “bring your own device” approach.
- Many educators see 1-to-1 computing environments as the next logical step for schools.

## Primary Benefits of the Program

- Students are engaging with the material – not just passively consuming.
  - The overall student experience is interactive – they can produce and be assessed in many different formats, e.g., videos, podcasts, etc.
- The classroom experience is more collaborative.
- Students have the ability to “ink” their notes so they make the material their own. Research shows that shorthand is preferable to dictation when taking notes and retaining information.
- The school-determined laptop helps students to think of their device as an academic tool – their phones are for social interactions.
- Microsoft OneNote is a powerful tool for faculty and students to share information and collaborate in new ways.
- The new 1-to-1 program will help with organization for both students and faculty. It will streamline the capability to give feedback to students more quickly and efficiently.
- There is a cost for the school and for families – it’s possible that we won’t use textbooks or will switch to e-books in the future, which could offset these costs.

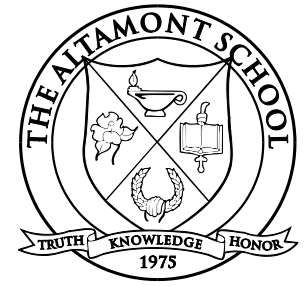
# The Evolution of Technology in the Classroom – 1-to-1 teaching



Overview of OneNote in a 1-to-1 Environment (Click image to play YouTube video.)



# The Evolution of Technology in the Classroom – 1-to-1 teaching



## Specific Ways that the Technology is Used in the Classroom

- Allows all students to work online simultaneously in a class or to **work collaboratively** on a project that is hosted in the cloud.
- Allows teachers to use **interactive, technology-assisted teaching strategies** that require students to have a computing device. For example, teachers can pose questions to a class, and all students can respond using an online survey system. Instead of asking a question and picking one student to give an answer, teachers can get answers from all students in real time to see who has understood the material, who hasn't, and who made need extra help.
- Makes it easier for students to **save work** on their own computer or for teachers to **load specialized software programs** on every computer used by students in a particular class.

# The Evolution of Technology in the Classroom – 1-to-1 teaching



## Specific Ways that the Technology is Used in the Classroom - continued

- Allows teachers to use “**course-management software**” to organize a class or assign long-term projects or homework that require students to use a computer. Otherwise, if some students do not have computers at home, teachers would have to assign homework that does not require computers, or they would have to modify expectations for students without access to a computer.
- Makes it easier to find **less expensive or more up-to-date learning materials** for students (for example, textbooks can be expensive and can quickly become outdated) and to diversify the types of learning tools, materials, and readings teachers make available to students, such as interactive e-textbooks, digital simulations, self-paced online tests, video-editing applications, or multimedia software.
- Makes it easier—or possible—to use new or more **innovative teaching strategies** such as blended learning and “flipped classrooms” or to incorporate online courses into the learning options schools make available to students.

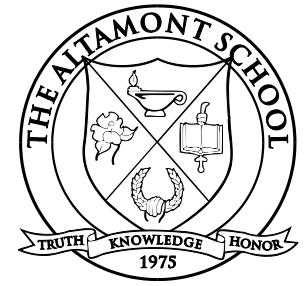
# Phased Rollout Approach



## Overview of the Plan

- 2017-18 – Use current faculty laptops to launch the program in the 5<sup>th</sup> and 6<sup>th</sup> grades
  - Faculty laptops are already scheduled to be upgraded in the 2017-18 school year.
  - Include a small fee for each student to cover additional warranties and for potential damage, software, and support.
  - Leverage existing positions to create an “Integration Specialist” that would work with the faculty to implement new teaching methods primarily using OneNote.
  - Invest in a wireless upgrade, which will enable the program over the next 4-5 years.
- 2018-19 and beyond –Begin rollout of family-purchased, school-determined devices for all students over a five-year period
  - Each student will purchase a device and it will be used for up to four years.
  - Rollout will start with 5<sup>th</sup> through 7<sup>th</sup> grades, adding two grades in year two (year two will add 5<sup>th</sup> and 9<sup>th</sup> grades with grades 6<sup>th</sup> through 8<sup>th</sup> already having devices), and add one grade per year in years 3-5.
  - A loaner pool will be purchased and maintained by the school.
  - A computer technician may be added in the 2020-21 school year (year three of the full rollout).

# Phased Rollout Approach

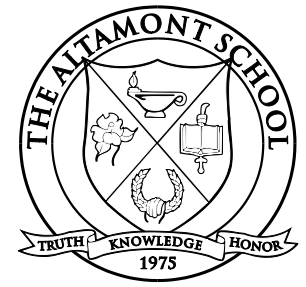


## Overview of the Plan - continued

### Rationale for the Phased Approach

- Families will have minimal incremental expenses in the 2017-18 school year, which will allow time to educate families and further develop the program.
- Further training is being and will continue to be implemented to prepare for the more formal launch – faculty development is a critical part of the plan.

# Phased Rollout Approach



	<b>17-18</b>	<b>18-19</b>	<b>19-20</b>	<b>20-21</b>	<b>21-22</b>	<b>22-23</b>
<b>5th</b>	Laptop	Laptop	Laptop	Laptop	Laptop	Laptop
<b>6th</b>	Laptop	Laptop	Laptop	Laptop	Laptop	Laptop
<b>7th</b>		Laptop	Laptop	Laptop	Laptop	Laptop
<b>8th</b>			Laptop	Laptop	Laptop	Laptop
<b>9th</b>			Laptop	Laptop	Laptop	Laptop
<b>10th</b>				Laptop	Laptop	Laptop
<b>11th</b>					Laptop	Laptop
<b>12th</b>						Laptop