

Smart Schools



Technology Proposal
Lake Shore Central School District
January 7, 2016

Item #1 - High School Business Department

- Technology

- 30 Dell Latitude E5400 Series, Touch Screen LCD, Intel Core i5 Processor, 8 GB RAM, 256 GB SSD, NVIDIA Graphics Card, Stylus Pen, Windows 10 and Office 2016
- NOTE: We will use an existing cart to store and charge these laptops in an effort to be cost efficient.

- Cost

- Approximately \$30,000

- Purpose

- This laptop cart update will provide increased functionality for our Academy of Business and Finance. It will allow students to work on HTML coding and Microsoft Office Certification. It will also support new programs as they become available.

- Feedback

- A link to a form for comments is available on the last slide of this document.

Item #2 - High School Mathematics Department

- Technology

- 30 Dell Latitude E5400 Series, Touch Screen LCD, Intel Core i5 Processor, 8 GB RAM, 256 GB SSD, NVIDIA Graphics Card, Stylus Pen, Windows 10 and Office 2016
- NOTE: We will use an existing cart to store and charge these laptops in an effort to be cost efficient.

- Cost

- Approximately \$30,000

- Purpose

- This laptop cart update will provide increased functionality for our High School Mathematics Department. Touch screen capabilities will allow students to use a stylus to solve mathematics problems. They will be able to utilize technology to optimize their use of Google Classroom and move in a paperless direction. Teachers and students will use this technology to support flipped classroom efforts using video to support learning. It will also support new programs as they become available.

- Feedback

- A link to a form for comments is available on the last slide of this document.

Item #3 - High School Computer Programming Course

- Technology

- 30 Dell Latitude E5400 Series, Touch Screen LCD, Intel Core i5 Processor, 8 GB RAM, 256 GB SSD, NVIDIA Graphics Card, Stylus Pen, Windows 10 and Office 2016
- NOTE: We will use an existing cart to store and charge these laptops in an effort to be cost efficient.

- Cost

- Approximately \$30,000

- Purpose

- This laptop cart update will provide increased functionality for our High School Computer Programming course. This course provides an excellent opportunity for students to learn coding and programming. Only 1 in 4 schools offer courses related to Computer Science and by 2022 there is predicted to be 1 million available computing jobs. This technology will allow students to experience programming using Alice, Scratch, LEGO EV3, EverFi Radius, and Code.org. It will also have the specifications to support new programs as they become available

- Feedback

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Item #4 - High School Art Department

- Technology

- 31 Dell Latitude E5400 Series, Touch Screen LCD, Intel Core i5 Processor, 8 GB RAM, 256 GB SSD, NVIDIA Graphics Card, Stylus Pen, Windows 10 and Office 2016
- NOTE: We will use an existing cart to store and charge these laptops in an effort to be cost efficient.

- Cost

- Approximately \$31,000

- Purpose

- This laptop cart update will provide increased functionality for our High School Art Department. The department will utilize Adobe Photoshop for the digital photography course. They will use Autodesk 123D software for integration with a 3D printer. They will utilize Google Drive for creating image galleries of student artwork to share on the district website. It will also have the specifications to support new programs as they become available.

- Feedback

- A link to a form for comments is available on the last slide of this document.

Item #5 - High School Media Center

- Technology

- 30 Dell Latitude E5400 Series, Touch Screen LCD, Intel Core i5 Processor, 8 GB RAM, 256 GB SSD, NVIDIA Graphics Card, Stylus Pen, Windows 10 and Office 2016
- NOTE: We will use an existing cart to store and charge these laptops in an effort to be cost efficient.

- Cost

- Approximately \$30,000

- Purpose

- This laptop cart update will provide increased functionality for our High School Media Center as well as teachers in their classrooms due to portability. This cart will support collaborative learning through Google Apps for Education. The touch screen will integrate annotation tools offered in Windows 10 and Office 2016. It will allow for student projects such as those applying multimedia, Islands of Enlightenment Virtual Worlds, Minecraft Edu, coding initiatives, and 3D modeling. It will also have the specifications to support new programs as they become available

- Feedback

- A link to a form for comments is available on the last slide of this document.

Item #6 - High School Virtual Worlds

- Technology

- 30 Dell Latitude E5400 Series, Touch Screen LCD, Intel Core i5 Processor, 8 GB RAM, 256 GB SSD, NVIDIA Graphics Card, Stylus Pen, Windows 10 and Office 2016
- 1 Cart

- Cost

- Approximately \$30,000 + Cart \$2000

- Purpose

- This laptop cart update will provide a platform for students to participate in a project titled Islands of Enlightenment. This project is an innovative use of educational technology allowing students to learn curriculum through a virtual world. This is a multidimensional project involves traditional learning methods that range from reading the non-fiction book, Night by Elie Wiesel, to having a virtual environment experience where students can role-play, create an exhibit as a museum curator, make machinima (movie making), as well as a multitude of multidisciplinary Common Core based learning outcomes. It will also have the specifications to support new programs as they become available.

- Feedback

- A link to a form for comments is available on the last slide of this document.

Item #7 - Middle School Media Center

- Technology
 - 30 Dell Latitude E5400 Series, Touch Screen LCD, Intel Core i5 Processor, 8 GB RAM, 256 GB SSD, NVIDIA Graphics Card, Stylus Pen, Windows 10 and Office 2016
 - NOTE: We will use an existing cart to store and charge these laptops in an effort to be cost efficient.
- Cost
 - Approximately \$30,000
- Purpose
 - This laptop cart update will provide increased functionality for our High School Media Center as well as teachers in their classrooms due to portability. This cart will support collaborative learning through Google Apps for Education. The touch screen will integrate annotation tools offered in Windows 10 and Office 2016. It will allow for student projects such as those applying multimedia, Islands of Enlightenment Virtual Worlds, Minecraft Edu, coding initiatives, and 3D modeling. It will also have the specifications to support new programs as they become available
- Feedback
 - A link to a form for comments is available on the last slide of this document.

Item #8 - Middle School Virtual Worlds

- Technology

- 30 Dell Latitude E5400 Series, Touch Screen LCD, Intel Core i5 Processor, 8 GB RAM, 256 GB SSD, NVIDIA Graphics Card, Stylus Pen, Windows 10 and Office 2016
- 1 Cart

- Cost

- Approximately \$30,000 + Cart \$2000

- Purpose

- This laptop cart update will provide a platform for students to participate in a project titled Islands of Enlightenment. This project is an innovative use of educational technology allowing students to learn curriculum through a virtual world. This is a multidimensional student project involves studying Medieval history and being given role to play in a medieval setting whereby they need to collaborate and work together to interact with others to find out the rightful Heir of the King of an imaginary English Kingdom. Common Core based reading, writing, technology, and collaboration skills will be highlighted. It will also have the specifications to support new programs as they become available.

- Feedback

- A link to a form for comments is available on the last slide of this document.

Item #9 - Middle School iPads

- Technology
 - 30 iPad Air 2 - 16 GB Tablets
 - NOTE: We will use an existing cart to store and charge these iPads in an effort to be cost efficient.
- Cost
 - Approximately \$19,200
- Purpose
 - This iPad cart update will provide updated iPads. These will support iOS 9 and will allow teachers to utilize portable devices for a wide variety of applications. Teachers and students will use Google Apps for Education along with apps for multimedia creation. Students will use apps for online assessment practice through STAR, IXL Math and Khan Academy. Apps will also support a flipped classroom model if desired as well as offer innovative uses of the iPad for lessons integrating augmented reality. Students will use iPads to engage in virtual field trips and even potential collaboration with a classroom in an alternate location through use of video conferencing. Updated iPads will allow for newly developed apps to function properly as they become available.
- Feedback
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Item #10 - AJ Schmidt Media Center

- Technology

- 30 Dell Latitude E5400 Series, Touch Screen LCD, Intel Core i5 Processor, 8 GB RAM, 256 GB SSD, NVIDIA Graphics Card, Stylus Pen, Windows 10 and Office 2016
- NOTE: We will use an existing cart to store and charge these laptops in an effort to be cost efficient.

- Cost

- Approximately \$30,000

- Purpose

- This laptop cart update will provide increased functionality for our our AJ Schmidt Elementary Media Center as well as teachers in their classrooms due to portability. This cart will support collaborative learning through Google Apps for Education. The touch screen will integrate annotation tools offered in Windows 10 and Office 2016. Students will also be able to utilize programs such as LEGO WeDo robotics to explore STEM related activities, Minecraft Edu to learn within educational virtual worlds, and also K-5 coding initiatives.

- Feedback

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Item #11 - Highland Media Center

- Technology

- 30 Dell Latitude E5400 Series, Touch Screen LCD, Intel Core i5 Processor, 8 GB RAM, 256 GB SSD, NVIDIA Graphics Card, Stylus Pen, Windows 10 and Office 2016
- NOTE: We will use an existing cart to store and charge these laptops in an effort to be cost efficient.

- Cost

- Approximately \$30,000

- Purpose

- This laptop cart update will provide increased functionality for our our Highland Elementary Media Center as well as teachers in their classrooms due to portability. This cart will support collaborative learning through Google Apps for Education. The touch screen will integrate annotation tools offered in Windows 10 and Office 2016. Students will also be able to utilize programs such as LEGO WeDo robotics to explore STEM related activities, Minecraft Edu to learn within educational virtual worlds, and also K-5 coding initiatives.

- Feedback

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Item #12 - JT Waugh Media Center

- Technology

- 30 Dell Latitude E5400 Series, Touch Screen LCD, Intel Core i5 Processor, 8 GB RAM, 256 GB SSD, NVIDIA Graphics Card, Stylus Pen, Windows 10 and Office 2016
- NOTE: We will use an existing cart to store and charge these laptops in an effort to be cost efficient.

- Cost

- Approximately \$30,000

- Purpose

- This laptop cart update will provide increased functionality for our our JT Waugh Media Center as well as teachers in their classrooms due to portability. This cart will support collaborative learning through Google Apps for Education. The touch screen will integrate annotation tools offered in Windows 10 and Office 2016. Students will also be able to utilize programs such as LEGO WeDo robotics to explore STEM related activities, Minecraft Edu to learn within educational virtual worlds, and also K-5 coding initiatives.

- Feedback

- A link to a form for comments is available on the last slide of this document.

Opportunity for Comments

- Feedback
 - Comments will be open until February 6, 2016
 - Please use the following link to add questions, comments or suggestions related to this item.
 - [Click Here To Access Feedback Form](#)