



One to One One to World

Madeira Planning Commission Technology Study

January 2016

Committee Members:

Brett Starr, Chairperson

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One to One... One to World:

How to best get devices into the hands of students?

In preparing our students for the future, the use of technology within classroom instruction can enhance and personalize the learning experience for every student. Students being able to save documents, do homework, and turn in assignments through cloud-based solutions will allow for anywhere, anytime learning. There are numerous collaboration and digital tools to engage students and Madeira is considering how to best put a personal device in the hands of each student next year in Grades 5-8.

The Madeira City Schools Planning Commission conducted a survey to garner parents' perspectives on how to bring the full benefit of computer access and technology to the learning process for our students. As a part of our research, this committee also reached out to a variety of local districts to inquire about funding and instructional planning in regard to a "One to One" technology plan.

The districts from whom we received responses were: Oak Hills, Dublin, Sycamore, Mariemont, Forest Hills, Hilliard, Mentor, Ft. Thomas Independent, Loveland, Indian Hill, and Jacksonville (Alabama). These districts had different philosophies on technology as well as different integrations of technology at various grade levels. We did not receive responses from Wyoming or Mason.

Summary of District Responses

<i>District</i>	Levy	Parent Contribution	School Pay	Own or Lease	iOS or Chrome	Cost to District	Lease Terms	Insurance
<i>Oak Hill</i>	No	No	Yes	Own	Chrome	\$180		N/A
<i>Sycamore</i>	No	No	Yes	Own	Chrome	\$265		Warranty
<i>Mariemont</i>	No	\$125 Rental	Yes	Own	iOS	Varied		No
<i>Forest Hills</i>	No	Yes	Yes	Own	Chrome	Varied		No
<i>Hilliard</i>	No	No	Yes	Own	iOS	Varied		\$50
<i>Mentor</i>	Grant	If broken.	Yes	Own	iOS	Varied		No
<i>Ft. Thomas, KY</i>	No	\$100	Yes	Lease	iOS	\$850	4 year	Apple Care
<i>Loveland</i>	No	\$100 lease to own	No	Lease	Chrome	\$300	3 year	No
<i>Indian Hill</i>	No	No	No	N/A	Varied	N/A		N/A
<i>Jacksonville, AL</i>		\$50	Yes	Lease	iOS	Varied	3 year	Apple Care

Funding Highlights of Schools Surveyed:

- No schools used levy funds
 - Parent Contribution?
 - 5 of 10 schools have NO financial parent contribution (1 “if broken”)
 - 4 of 10 schools have rental or lease to own programs (3-4 years)
 - 1 of 10 schools is Bring Your Own Device (BYOD)
 - School Paid?
 - 8 of 10 schools fund devices
 - 4 of 10 schools funded 100% of devices
 - 4 of 10 schools funded partial fees (in addition to parent contribution)
-

Device Options Based on Schools Surveyed:

- Devices:
 - 4 of 10 use CHROMEBOOKS
 - 5 of 10 are iOS/Apple Devices
 - 1 of 10 is BYOD (Varied)
- Cost to District:
 - 4 districts: ranges from \$180-\$850
 - 5 districts: “varied”
 - 1 district: N/A (BYOD)

Specific School Feedback

Indian Hill Exempted School District –

- BYOD (Bring Your Own Device) with half the students bring Apple and other half Windows based devices.
- Gave a heads up to parents and communicated over the year before enacting BYOD.
- Hard to monitor web activity and had to reign in web usage.

Mariemont City Schools–

- Began with BYOD (Bring Your Own Device) and the program has proven unsustainable.
- Parents pushed back on school provided devices as their personal devices were ‘nicer’.
- Support for many different devices is difficult, especially during exams.

Loveland City Schools –

- Leveraged focus group of teachers to document requirements.
- Families lease to own \$100 for 3 years, owned by family at end of year 3.
- Phasing out BYOD, only a handful of students still BYOD.
- Picked Chromebook as most work was web based, affordable and allowed a single platform centrally administered.

Oak Hills Local School District–

- Leverage Google Apps for Education.
- Phased delivery grade at a time.
- Cost on average was \$180 per chromebook.
- Paid out of permanent school funds.
- Recommend teaching students how to care for the device.
- Leverages Google Apps for Education

Sycamore Community Schools–

- Started with BYOD and have moved to chromebooks.
- Major overhaul of curriculum.
- Started with 5th and 6th, then 7th and 8th, next high school.
- Leverages Google Apps for Education
- Can manage all devices centrally from single console.
- Full-time support staff.
- Office 365 free for schools.
- Acer warranty support, 3 years

Forest Hills Local School District –

- Acer Chromebooks for middle school
- High school is BYOD
- Would recommend package for parents to buy set device if you go BYOD

Dublin City Schools–

- Attempted BYOD twice to inferior results.
- Now working to land on single device offered by the school.

Hilliard City Schools–

- Started with blending learning initiative.
- Landed on one device, school provided iPad.
- Began writing their own textbooks and are phasing out all textbooks.
- 50% reduction in printing.
- Phased deployment. Four year replacement cycle.

Mentor City Schools –

- Joined the Innovative League of Schools Digital Promise.
- Tested Apple and Microsoft products.
- Parent pays \$25, \$50, then \$75 for damages.
- Stopped buying textbooks.
- 3 instructional coaches to assist teachers in each building.

Ft. Thomas Independent Schools (Kentucky) –

- Created research group of parents, teachers, and principals to select one: one solution.
- Started with BYOD but it became cumbersome to maintain. Switched to school procured MacBook aires.
- 4 years lease with Apple Care is \$850.
- Recently switched from Apple Care to Go Care for device Insurance.
- Each building has dedicated Instructional Specialist.
- Would recommend planning for a year before roll out.

Jacksonville City Schools (Alabama) –

- One year ramp up to deployment.
- Created Digital Conversion team of Faculty.
- iPad selected but vote was nearly even split between iPad and Macbook.
- Had to create 'whitelist' of apps and websites.
- Leverages Apple SAMR methodology for converting teaching activities to use iPADS.
 - Substitution, Augmentation, Modification, Redefinition
- Recommend significant professional development for faculty.

Wyoming City Schools –

- No responses.

Mason City Schools–

- No responses.

Parent Survey

A survey was sent to the parents with children in grades 4 thru 7 and a total of 158 responses were received. The majority of respondents were parents of 4th graders, followed by 6th grade, 7th grade, then 5th grade.

We asked if parents would be supportive of a Madeira "One to One" personal device / computer program and explained this program would enable each student in Grades 4-7 to have their own computer for classroom and learning at home, collaboration on projects, apps for learning, research, and much more. Of the 156 responses to this question 147 would be supportive of this type of program. The feedback received via the survey on this question ranged from very supportive to concerns over the amount of

students' screen time and the cost factor. More information concerning the program was also requested. A few examples of the responses are as follows:

- "I support Madeira schools having it in place for students to use- not parents providing the devices."
- "need to know the cost to the district and how that will increase my responsibility as a parent. I feel fees at beginning of year are already high, if one-to-one program adds significant dollars to that fee, I'm not interested. I saw \$80 annually in future questions as the cost, which is mostly reasonable. But what is the plan after those 5-8 grade years? Are kids back to BYOD? What kind of firewall protection is installed and how can we monitor what the kids are accessing? My sycamore parent friends say their 5th graders won't stop playing games on the computers and their kids have more late/missing assignments with the computer than without."
- "The only problem I see is the cost factor. If parents are responsible for the cost it may be too much for some parents to afford. Otherwise I think it's a great idea."
- "My only hesitation is that I don't want my student on the computer all day, unable to have face to face conversations/communicate and problem solve with others."

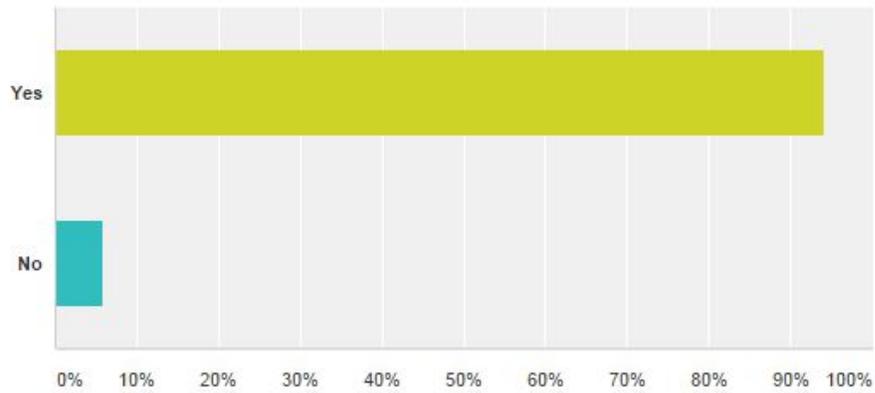
We also asked what approach they would most likely support as a means of going to a "One-to-One" program and getting more devices into the hands of students? The choices were: 1. Bring your own device (BYOD), 2. School provided lease program with device allowed to be brought home, 3. School purchases all devices and device kept at school, 4. other. The option of the school lease program (#2) was favored as that option garnered 77 responses; with options #1 & #3 having 30 responses each. We received 20 responses for option #4 other; responses indicated concerns about cost of the program, support for bring your own device (BYOD) as well as support of the school lease program. A few examples of the responses are listed below:

- "I have done the lease program before. My 11th grader did this in 5th grade when he was at CCD. It was nice to have the textbooks loaded on the computer so that they couldn't use the excuse that they forgot it. Also it was nice that the teacher could see what they were working on for hw and log in with them and help with a problem or ask them a question to clarify their answer better. I think that whatever works to get the technology in their hands."
- "What if a family can not afford the \$80 annual fee? That is a good option, minus the fee being a hurdle for some families"
- "Offer a choice of either school provide device or BYOD. We already own 2 chromebooks. But if we did not own them already, then I would want the school to provide the devices. I was able to buy 2 chrome books for \$200. Thus, I would want to opt out of the school program since I could get them cheaper."

Parent Survey Responses

Would you be supportive of a Madeira "One to One" personal device / computer program? This program would enable each student in Grades 5-8 to have their own computer for classroom and learning at home, collaboration on projects, apps for learning, research, and much more.

Answered: 156 Skipped: 3



Answer Choices	Responses
Yes	94.23% 147
No	5.77% 9
Total	156

If you would NOT support a Madeira "One-to-One" program, please provide feedback as to why.

Answered: 22 Skipped: 137

● Responses (22) Text Analysis My Categories

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Categorize as... Filter by Category Search responses

Showing 22 responses

What does "support" mean? Financial support? Or conceptual support? (Do I think it's a good idea?)
12/20/2015 10:35 PM [View respondent's answers](#)

The responsibility of a 5th grader taking a computer to and from school seems high risk and costly if broken or lost.
12/16/2015 11:13 PM [View respondent's answers](#)

Money
12/16/2015 12:54 PM [View respondent's answers](#)

I DO support this. Sorry to put the comments here, but I'm not sure I'll get a chance later in the survey. At Highlands Middle School in Fort Thomas, they have had this program for several years and its very successful.
12/16/2015 10:28 AM [View respondent's answers](#)

Kids are already too reliant on screens and technology
12/15/2015 11:38 PM [View respondent's answers](#)

The program structure is not defined. For me to say I am supportive I would have to understand how it would be funded, how it would be used, how families who cannot afford a device would be covered, who would pay if a child broke a device, and all the other factors that go into a program such as this one.
12/15/2015 10:44 PM [View respondent's answers](#)

I don't know enough about it to say yes or no. What is the cost to the parents or the district? We have plenty of devices at home.
12/15/2015 5:04 PM [View respondent's answers](#)

I think kids need less time on technology. Sometimes the technology can be more distracting than helpful.
12/15/2015 4:57 PM [View respondent's answers](#)

It seems that the kids already have a lot of screen time between school and home, and this would appear to encourage more screen time.
12/15/2015 4:38 PM [View respondent's answers](#)

My only hesitation is that I don't want my student on the computer all day, unable to have face to face conversations/communicate and problem solve with others.
12/15/2015 3:36 PM [View respondent's answers](#)

Option to have their own device from home.
12/15/2015 1:31 PM [View respondent's answers](#)

We are concerned about kids having large amounts of personal screen time (time where kids are alone with a screen). One of the easiest ways to combat this is to have shared devices - devices that are not "theirs".
12/15/2015 1:28 PM [View respondent's answers](#)

I support Madeira schools having it in place for students to use- not parents providing the devices.
12/15/2015 12:21 PM [View respondent's answers](#)

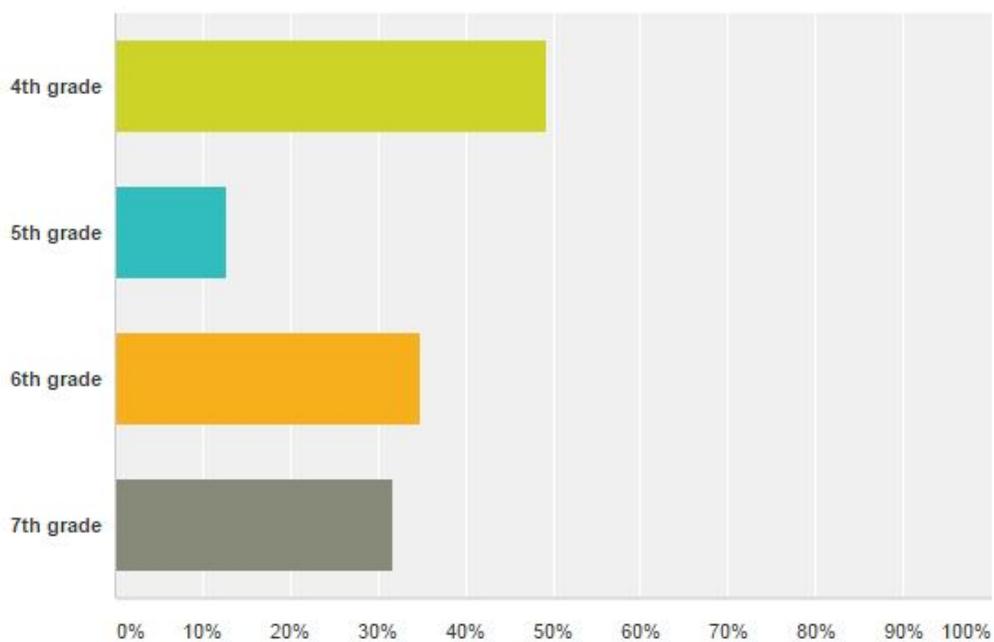
The only problem I see is the cost factor. If parents are responsible for the cost it may be too much for some parents to afford. Otherwise I think it's a great idea
12/15/2015 11:40 AM [View respondent's answers](#)

What will cost us?
12/15/2015 11:18 AM [View respondent's answers](#)

i am a big supporter of this initiative
12/15/2015 10:14 AM [View respondent's answers](#)

What grade(s) is/are your child/children in ?

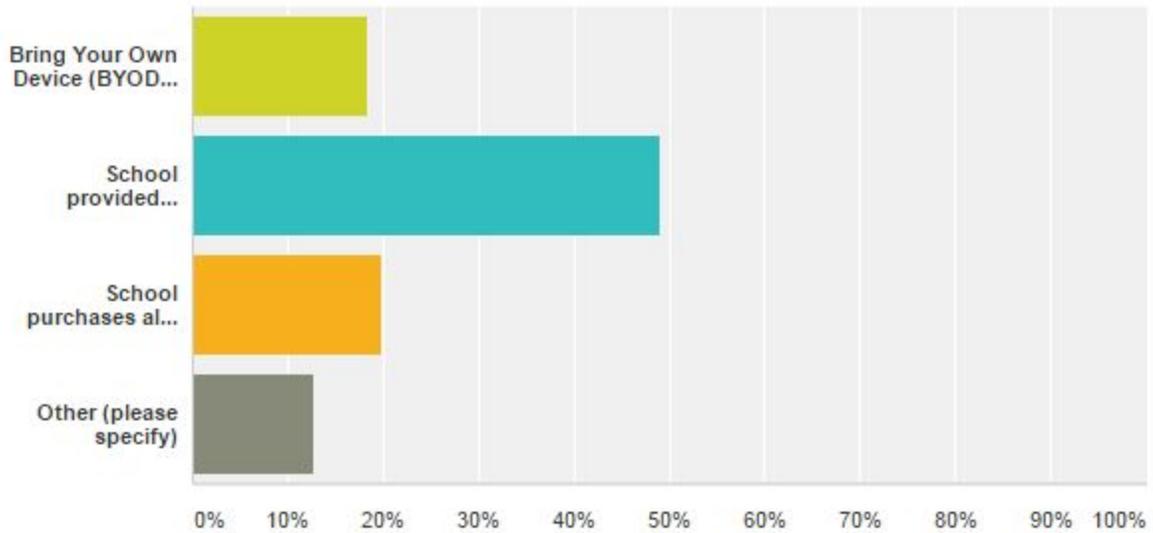
Answered: 158 Skipped: 1



Answer Choices	Responses
4th grade	49.37% 78
5th grade	12.66% 20
6th grade	34.81% 55
7th grade	31.65% 50
Total Respondents: 158	

What approach are you most likely to support as a means of going to a "One-to-One" program and getting more devices into the hands of students?

Answered: 157 Skipped: 2



Answer Choices	Responses
Bring Your Own Device (BYOD) - parents provide a device that students must bring to / from school daily. Support for device provided by parents.	18.47% 29
School provided chromebook lease program - parent pays approx \$80 annual fee; student brings device to / from school daily with support and maintenance (including loaners) provided by the school; student owns device after three years.	49.04% 77
School purchases all devices and students are not allowed to take devices to/from school.	19.75% 31
Other (please specify) Responses	12.74% 20

(continued on next page)

What if a family can not afford the \$80 annual fee? That is a good option, minus the fee being a hurdle for some families.

i prefer the school provide the machines and limit the contents that can be installed on them (no games etc) and dedicate them as a replacement for "trapper keepers" or paper organizers. All contents are stored, backed up, and managed in a cloud service provider accessible by student, parents and Teachers.

12/15/2015 10:17 AM [View respondent's answers](#)

I like both the BYOD and Chrome Book lease if can't afford

12/15/2015 9:35 AM [View respondent's answers](#)

I think a combination of option one and two would be best bet

12/15/2015 8:55 AM [View respondent's answers](#)

\$240 total for a chromebook? pricey. for that price i'd prefer a laptop with storage.

12/15/2015 8:32 AM [View respondent's answers](#)

School provides the chrombook and kids turn it in after 3 years.

12/15/2015 7:57 PM [View respondent's answers](#)

Offer BYOD or school. I could buy a chrome book cheaper than 80 per year.

12/15/2015 6:43 PM [View respondent's answers](#)

Again, I don't know enough to say

12/15/2015 5:05 PM [View respondent's answers](#)

No Chromebook

12/15/2015 3:16 PM [View respondent's answers](#)

First choice school purchases, second choice BYOD

12/15/2015 3:12 PM [View respondent's answers](#)

Distict purchases chromebook and students are issued the device, like a textbook, and are allowed to take to and from school

12/15/2015 2:44 PM [View respondent's answers](#)

Offer a choice of either school provide device or BYOD. We already own 2 chromebooks. But if we did not own them already, then I would want the school to provide the devices. I was able to buy 2 chrome books for \$200. Thus, I would want to opt out of the school program since I could get them cheaper.

12/15/2015 2:38 PM [View respondent's answers](#)

Option of the schools provide Chromebook but can opt out if they have a device that they bring to school

12/15/2015 1:32 PM [View respondent's answers](#)

Our fees are already so high compared all local public schools. If my kids have to pay for the computer by lease, it should be over three years and not 80 up front. I already pay 165 in school fees. This would add another 160. Better payment system. Kids should be able to take them home

12/15/2015 1:31 PM [View respondent's answers](#)

I support the range of options but wouldn't want to be forced into a lease since we already own.

12/15/2015 1:20 PM [View respondent's answers](#)

Like option #2, but want option to trade up on a new lease, as technology will most likely be outdated after 3 years and might not want to own

12/15/2015 1:11 PM [View respondent's answers](#)

Allow students to bring there own and provide a lease program for those who are not able to BYOD.

12/15/2015 10:34 AM [View respondent's answers](#)

Conclusions and Recommendations:

Parent Feedback - Topics to address:

- Note that we need to address the topic of “screen time.”
- Educate parents about the uses of the chromebook
- \$ plan - include how we would take care of those who can't afford it

What Are We Currently Doing? MCS Technology Professional Development

As a district, we already pay for and use Google Apps for education. We also have different teacher-committees at each building that is discussing and researching best instructional practices for a One to One technology model. These committees are surveying these and other districts about their professional development and instructional practices and options in regards to technology as a way to compare to practices that are already present in Madeira classrooms. This will include an investigation into best tools and online learning communities for teachers and students at MCS.

Committee Recommendations:

Where Do We Want To Go?

- We recommend that Madeira goes One-to-One in at least grades 5-8 in the upcoming school year.
 - We recommend using Chromebook Devices.
 - We recommend funding through a rent-to-own student fee based system.
-

Internet Research Links:

www.beyondtextbooks.org

www.learn21.org

www.one2one.sycamoreschools.org

<http://www.bloomfield.org/parents-students/one-to-world>

<http://www.lovelandschools.org/TigerOne-to-World.aspx>

<http://www.hilliardschools.org/one2one/>

<http://www.hilliardschools.org/blendedlearning/>

<http://www.hilliardschools.org/techconnect/tech-task-force/>