

**Principals Meeting – October 6, 2015
2016-2020 TECHNOLOGY PLAN INPUT**

Overview

At the October 6, 2016 District Principals’ meeting the principals were asked to respond to the following three prompts:

1. List the critical educational (not technological) challenges to integrating technology into learning and teaching.
2. How do you believe students will benefit from integrating technology?
3. How do you believe teachers will benefit from integrating technology?

Principal Responses

The following list their responses by their grade level (in some cases the respondents did not state their level). The following provides a summary of the common ‘words’ used to describe their vision and then the words shared across the principal responses.

Vision Words:

Reliable, Adaptable, Accessible, Personalized, Collaborative, Tools Learning, Differentiation, Equity & Access, Critical

Words Shared by All Principals:

Assessment, Outcome Focused, Authentic, Exploration, Efficiency, Innovation, Practical, Necessary, Supportive, Enabling, Expansive

1. List the critical educational (not technological) challenges to integrating technology into learning and teaching.			
Elementary	Middle School	High School	Unknown Level
<ol style="list-style-type: none"> 1. Space 2. Maintenance 3. Security 4. Teacher skill and understanding of how to integrate technology into _____ 5. Teachable technological skill 6. Limited teacher education on how to integrate technology in a meaningful way 7. Support for tech issues – timeliness/limited # of staff in tech support 8. # of laptops available – limits/low # of laptops is a challenge for teachers who may want to use tech on a regular basis 	<ol style="list-style-type: none"> 1. Staff training around use 2. Availability of resources for students 3. Complicated interfaces – use 4. Lack of content and tools, site licenses, etc. 5. Developing knowledge/capacity in staff & students 	<ol style="list-style-type: none"> 1. Challenge – teachers can competently infuse technology efficiently in their instruction – to keep “human” element in learning 2. Fallacy – believing that increased use of technology will have a direct and significant correlation to 	<ol style="list-style-type: none"> 1. Instructor learning curve/training 2. Lack of understanding of the spectrum – what do universities and careers used – how do we prepare students for that use? *When the tech used to “do business” (internet, Outlook, eWalk, hardware in classrooms, projectors) does not work reliably – staff lose faith in integrating additional or new tech into teaching and learning. The lack of trust creates refusal to try.

**Principals Meeting – October 6, 2015
2016-2020 TECHNOLOGY PLAN INPUT**

<p>9. Students in poverty absolutely do not have the same access to technology, except for mobile platforms</p> <p>10. Use of technology in every day instruction (how students actually practice) does not match how kids are tested on the tests that matter most when publically evaluating school, district or even education on the whole</p> <p>11. Far from seeing digital media literacy as a norm</p> <p>12. Less about tools and more about thinking</p> <p>13. Many methods still experiments/research – constantly changing target</p> <p>14. Having the technology – enough for ALL students to access in a timely manner</p> <p>15. Teacher training/willingness to learn</p> <p>16. Do we see <u>why</u> the use of technology is important?</p> <p>17. Time</p> <p>18. Space within the rooms</p> <p>19. Teacher PD</p> <p>20. Connection to life-long learning/skills</p> <p>21. Ongoing implementation issues</p> <p>22. Programs don't work</p> <p>23. Help Desk is not helpful and responsive in a timely manner</p> <p>24. Required training and opportunities to practice needed</p> <p>25. Lack of equal access</p> <p>26. Physical space/layout/infrastructure</p> <p>27. Teacher training</p> <p>28. Funding</p> <p>29. Fixed mindset of some staff, families and tech staff</p> <p>30. Adult comfort/familiarity with tech</p>	<p>6. How to use this blend effectively whilst meeting all learning standards</p> <p>7. Gaps: some students/families know and can access more</p>	<p>increased student learning/achievement</p> <p>3. Controlling “appropriate” use of district devices</p> <p>4. Competence/comfort of educators with technology</p> <p>5. Honoring/valuing face to face communication</p>	<p>3. Access for all students with like platforms (old computers vs. newer, COWs vs. desktops)</p> <p>4. Reliability – computers/programs work. People to fix (having infrastructure that supports our tech.)</p> <p>5. Leaders are not as knowledgeable as learners?</p> <p>6. Trying to pace tech to fit current business practices instead of changing business practices with new tools.</p> <p>7. Teachers are not trained in how tech can be used to support student growth - often it is enrichment not core.</p> <p>8. Not all tech is available, workable, useable to all</p> <p>9. Students with limited access to tech – barrier in using the tools – do not understand keyboard, slow typing, don't know how to save</p> <p>10. Challenges: system capacity, training, varying levels of skills/attitude</p> <p>11. (SPED) New ILC Curriculum, teachers love, good parent comments. However, the <u>printing</u> necessary for this program makes for a challenge. Printers in ILC classrooms?? (Fear of change) (Enough technology)</p> <p>12. Training of teachers</p> <p>13. Not using technology just because it's there</p> <p>14. Logistics – x # of machines needed for y # of students</p> <p>15. Internet/network connectivity + fidelity</p>
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**Principals Meeting – October 6, 2015
2016-2020 TECHNOLOGY PLAN INPUT**

<p>31. Institutional fear of losing control over the educational environment (e.g. if we allow students to use their cell phone, we risk....)</p> <p>32. Tending to use new technologies via old paradigms (e.g. Smart Boards are fancy blackboards, PPT is the new overhead, etc.)</p> <p>33. Process vs. conceptual learning and teaching</p> <p>34. Equity and access</p> <p>35. Ongoing training for both adults/<u>students</u></p> <p>36. Teacher knowledge and comfort of how and when to integrate technology</p> <p>37. Correlation of the technology needs that students need to know (like skills for the SBA test) and curriculum or ideas about how tech should be integrated.</p> <p>38. Teacher comfort/education – what is their role?</p> <p>39. Structure for teaching collaboration via technology/social networking</p> <p>40. Social Skills related to the use of technology</p>			<p>16. Teacher + we don't know what we don't know in terms of what's available + how we might use it. (Time + understanding)</p> <p>17. Comfort level with continuously "new" tech</p> <p>18. Equity and access</p> <p>19. Lack of in school personnel dedicated to deal with student tech issues</p> <p>20. Teachers can't solve tech issues, (more often than not)</p>
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2. How do you believe students will benefit from integrating technology?

Elementary	Middle School	High School	Unknown Level
<p>1. Technology _____ individual inquiry and learning – it is the medium of the future and a workforce requirement.</p> <p>2. I believe we are grossly underperforming in the area of technology due to lack of access and programing. A focus on delivering instruction through/using technology will help our students compete with students in neighboring district because they will be learning the skills required to use tech and navigate it in a way to improve their own learning</p>	<p>1. Immediate feedback from teachers</p> <p>2. Ability to access more content</p> <p>3. Ease of use, quickly communicate</p> <p>4. Access to information and how to use critical technology in the real world</p>	<p>6. Access to information</p> <p>7. Transferable work place skills</p> <p>8. Discover information previously inaccessible</p> <p>9. Tools for efficiency</p>	<p>1. Yes – they are probably better equipped to immediately use than staff</p> <p>2. Move from schoolhouse to world</p> <p>3. Personalized</p> <p>4. Adaptive/differentiated</p> <p>5. Think it can be the great equalizer in access for all social classes – disabilities</p> <p>6. Provides another tool, learning style, gives access, broadens reach (i.e. Khan Academy)</p>

**Principals Meeting – October 6, 2015
2016-2020 TECHNOLOGY PLAN INPUT**

<ol style="list-style-type: none"> 3. We have to provide them the opportunity to use technology the way we do as adults 4. We have to provide them the opportunity to use technology the way we do as adults. They need their own device and the chance to use it in all phases of learning, practicing and producing meaningful work. I think it begins at second grade 5. Authentic learning; flexible individualized opportunities; provide opportunities some students do not have access to in home life. 6. Creative outlet 7. Learning skills to be career/college ready 8. Critical thinking 9. Support for differentiation 10. Life skills 11. Critical thinking skills 12. Increased engagement 13. Preparation for life 14. Essential for all jobs 15. Adaptable, personalized 16. Collaborative 17. Resource access – equal access to information 18. If they have access to the technology that is the best fit for their needs, it can open avenues of communication and Learning not currently allowed due to a fixed mindset about certain technology rather than seeing how it could happen 19. Many students already integrate tech into their lives for communication, play, learning, etc. School tend to lag behind. I'm more concerned about equity issues regarding access to tech – a rich array to tech that affluent students may enjoy as a result of having “professional” parents. 	<ol style="list-style-type: none"> 5. Variety of way to learn, be assessed 		<ol style="list-style-type: none"> 7. Many ways – visual, high interest, current, immediate reinforcement, opportunities for fun and practice, differentiation, equity and proper access! 8. If it is done in a way that makes sense, they will see necessary outside of school 9. Differentiated learning opps. – customized to their levels. Able to explore times + places beyond with they might see if limited to the physical world 10. Feedback – more immediate 11. Practice skills 12. Learning content hands on 13. Assessments 14. Library, remote access
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**Principals Meeting – October 6, 2015
2016-2020 TECHNOLOGY PLAN INPUT**

20. Connect to own lives 21. Motivated 22. Differentiated for learners 23. I think students are more excited and often interested in using technology in learning. 24. Helps with differentiation regarding students learning and abilities 25. Levels the playing field more for those who may not otherwise have access 26. Engagement and desire to learn 27. Enhance problem solving and critical thinking 28. Future ready			
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3. How do you believe teachers will benefit from integrating technology?

Elementary	Middle School	High School	Unknown Level
1. Enhanced individualized instruction “decrease learning styles” 2. Access information 3. Increase instructional resources 4. It can be a great tool, but to use it efficiently, teachers will need training. They don’t just know how to use it instructionally just because they know how to use it personally. 5. Opportunity to develop more project-based learning, meet needs in a more individualized fashion, increase engagement. 6. Reach students in different ways 7. Have increased knowledge of what students need to prepare them for college/career 8. The ability to meet the needs of ALL students/learners 9. Necessary for teachers to have the technology skills to integrate – training necessary – to	1. Immediate feedback to students 2. Access to data 3. Interact with students 4. Can design innovative way to assess, collect data and organize resources/materials 5. Students learn real world ways of organization, seeking information, research, etc. 6. Expanding teaching resources	1. Engage more students 2. Help students search/discover answers, instead of relying on teacher 3. Enhanced communication of school info 4. Access to content, units, best practices, etc. 5. Skills that may be difficult with old methods can be learned with supportive technology.	6. Skills that may be difficult with old methods can be learned with supportive technology. 7. Not limited to present knowledge 8. It will further define the role as “facilitator” vs. “giver of information” 9. Common platform 10. See increase in student engagement and learning. 11. Increase in <u>communication</u> , decrease in inappropriate behaviors. 12. Higher levels of engagement from the students. 13. Supports student collaboration, ability to differentiated, making learning fun. 14. Remove boundaries + transform learning/teaching... 15. Global education access 16. PD

**Principals Meeting – October 6, 2015
2016-2020 TECHNOLOGY PLAN INPUT**

<p>prepare students for skills they need and access to information</p> <p>10. It can be engaging and it will help connect our students to the real world.</p> <p>11. I don't know, but I do think the isolated classroom is a major barrier (see #2) to successful, systemic tech integration. Recommendation: Review research on how kids currently use "tech" outside of school, keeping in mind income level, etc. may contribute to this.</p> <p>12. Make learning or lessons more relevant</p> <p>13. Help teachers make lessons more college and career ready for current careers</p> <p>14. Ability to differentiate</p> <p>15. Constant assessment</p> <p>16. Engagement strategies</p>			<p>17. Communication with others in profession, (networking)</p>
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